The 18th International Conference on Pattern Recognition

20-24 August 2006
Hong Kong

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Welcome Messages

Message from the ICPR2006 General Co-Chairs

It is our pleasure to organize the 18th International Conference on Pattern Recognition (ICPR) 2006 in Hong Kong. Following the practice of the ICPR, a multi-track conference is arranged. We have five tracks, namely, "Computer Vision and Image Analysis", "Pattern Recognition and Basic Technologies", "Signal, Speech and Image Processing", "Systems, Robotics and Applications (with associated theme: Biometrics)" and "Cognitive Approaches & Soft Computing". We received a record-breaking number of full paper submissions, 2029 papers from 48 countries. A total of 311 papers are selected for oral presentation while 857 are selected for poster presentation.

We are also very honored to have Prof. Anil K. Jain from Michigan State University, USA, Prof. Ru-Wei Dai from the Academia Sinica, China and Prof. Lawrence O. Hall from University of South Florida, USA to deliver the Conference plenary speeches. We have also invited the following ten top researchers to deliver invited talks for the five Tracks: Prof. Prabir Bhattacharya from Concordia University, Canada, Prof. Hans Burkhardt from Albert-Ludwigs-University, Germany, Prof. Virginio Cantoni from University of Pavia, Italy, Prof. George Djorgovski from Caltech, USA, Prof. Olivier Faugeras from INRIA, France, Prof. Richard Hartley from Australian National University, Australia, Prof. Josef Kittler from University of Surrey, United Kingdom, Prof. Alex Pentland from MIT Media Lab, USA, Prof. José Carlos Príncipe from University of Florida, USA and Prof. Alexander Waibel from Carnegie Mellon University, USA.

We are truly indebted to the Hong Kong Baptist University, especially the staff of the Department of Computer Science, for their strong support of ICPR 2006.

It is really the Track Chairs and the Associated Theme Coordinators who should be credited for the high quality technical program that makes ICPR the premier conference in pattern recognition. The rigorous paper peer review exercise was led by Prof. Josef Bigun, Prof. Andreas Dengel, Prof. Robert Haralick, Dr. Tin Kam Ho, Prof. Horace Ip, Prof. Seong-Whan Lee, Prof. Brian Lovell, Prof. Long Quan, Dr. Nalini Ratha, Dr. Gabriella Sanniti di Baja, Prof. Kazuhiko Yamamoto and Prof. Pong C. Yuen. They should be applauded for their tireless effort and dedication. They sacrificed their weekends, vacation time and even early morning hours trying to get the numerous, tedious problems resolved. We

also would like to thank all Program Committee members, reviewers, contributing authors and conference participants who make this conference possible.

Our special thanks go to Prof. Hong Yan for the technical program scheduling, Dr. William Cheung for the submission system, Dr. C.H. Li for the overall conference organization, Dr. Xiaowen Chu for the publication of the proceedings, Dr. Nanning Zheng and Dr. James Kwok for the workshop organization, Dr. Chao Huan Hou and Dr, D.Y. Yeung for the tutorial organization, Prof. Irwin King for the poster session organization, Dr. Yiu-Ming Cheung and Dr. Man-Wai Mak for publicity activity, Dr. Victor Cheng for registration arrangement, Dr. Kelvin Wong, Dr. Kenneth Lam and China Travel Conference and Event Management for local arrangement.

Finally, we do hope that you enjoy the conference and your stay in Hong Kong.

Yuan Yan Tang, Hong Kong Baptist University, Hong Kong
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Daniel So Yeung, Hong Kong Polytechnic University, Hong Kong

Message from the President of IAPR

It is my great pleasure to welcome you to the 18th International Conference on Pattern Recognition (ICPR). This conference is the main event of the International Association for Pattern Recognition (IAPR) held biennually in different parts of the world. This time Hong Kong, Asia's World City at the southeastern tip of China is hosting this big event. It offers a great opportunity to hear about and to discuss the newest results in the extremely fast developing field of pattern recognition.

Let me invite you to take advantage of the fact that most of the active researchers and scientists come together at the ICPR. It is a great opportunity to refresh contacts, discuss open research issues and to create new friendships across countries and continents.

Ten years ago I was responsible for organizing ICPR 1996 in Vienna. ICPR is still growing, the number of submitted papers has reached a new record of more than 2000! This is a positive sign for our field and for the IAPR as an international association but it brings also some new challenges. A huge number of papers need to be reviewed in a very short period of time. It is not easy to maintain a high level of quality across the many reviewers from different scientific fields and different scientific cultures reading and commenting around 15 papers each. I would like to take this opportunity to thank the many reviewers for giving the authors a valuable feedback on their contributions and allowing them to improve their work. IAPR has to work hard to continuously improve the quality of the scientific communication while faced with still growing numbers.

When I was elected president of the IAPR I highlighted two concerns that I consider important for the future of the IAPR: 1. To make scientific and professional quality visible; and 2. To develop a well-structured curriculum of pattern recognition.

These two issues are long term issues and will require further efforts in the future. Prizes and awards are excellent possibilities to serve certain aspects of the first issue. The traditional K.S. Fu Prize will be given to Prof. Josef Kittler for contributions in the rigorous and systematic application of probability theory for developing new approaches and methodologies in pattern recognition and image processing.

But I am glad to announce the new J. K. Aggarwal Prize. The first prize will be awarded during this ICPR. The recipient is a young scientist, who has brought a

substantial contribution to a field that is relevant to the IAPR community and whose research work has had a major impact on the field.

The second issue has been dealt with by the educational committee. To create an educational backbone as a base for future research in pattern recognition has been started but will need further efforts in the future. If you are interested in and willing to contribute to this issue or any other topics addressed by the many standing and technical committees of the IAPR you are cordially invited to participate in these activities. IAPR lives through the activities of its members!

Two years of presidency of IAPR has been a great experience for me. I would like to take this opportunity to express my appreciation to all our colleagues who dedicated so much effort in the organization of this conference. Furthermore I would like to thank my fellow executive committee members, members of the governing board, chairs of various standing, technical and ad-hoc committees for their leadership and dedication to IAPR.

Walter G. Kropatsch
President
International Association of Pattern Recognition

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All information related to IAPR Committees and IAPR Member Societies is obtained from the IAPR website http://www.iapr.org/.

For full contact information of IAPR Member Societies, please refer to:
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Manmatha, Raghavan
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Petkov, Nicolai
Pranckeviciene, Erinija
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Sagerer, Gerhard
Sako, Hiroshi
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Windeatt, Terry
Yang, Jie
Yang, Jingyu
Yeung, Dit-Yan
Zhang, Changshui
Zhou, Zhi-Hua

Track III: Signal, Speech and Image Processing

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Ahuja, Narendra
Anarim, Emin
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Barron, John
Beleznai, Csaba
Bengtsson, Ewert
Bischof, Horst
Blanc-Talon, Jacques
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Bruckstein, Alfred
Casacuberta, Francisco
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Clarkson, Ian
Clematis, Andrea
Daugman, John
De Mori, Renato
Deselaers, Thomas
Di Gesu', Vito
Ding, Xiaoqing
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Duta, Nicolae
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Fred, Ana
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Gurevich, Igor
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Henri, Maitre
Hesselink, Wim
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Kimia, Benjamin
Kise, Koichi
Kittler, Josef
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Kropatsch, Walter
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Lenz, Reiner
Liao, Zhiwu
Liu, Qingshan
Liu, Zhi-Qiang
Llados, Josep
Lu, Zhe-Ming
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Maltoni, Davide
Marcelli, Angelo
Matas, Jiri
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Parkkinen, Jussi
Petkov, Nicolai
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Richter, Michael
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Sagerer, Gerhard
Sako, Hiroshi
Sanfeliu, Alberto
Sarkar, Sudeep
Schiele, Bernt
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Woodham, Robert
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Yuan, Baozong
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Track IV: Systems, Robotics and Applications (with Associated Theme on Biometrics)

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Baronti, Stefano
Barron, John
Betke, Margrit
Bhagavatula, Vijayakumar
Bhanu, Bir
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Bischof, Horst
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Bolle, Ruud
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Hall, Lawrence
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Hesselink, Wim
Hung, Yi-Ping
Hwang, Bon-Woo
Jarvis, Ray
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Kim, Daijin
Kim, Jin
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Kittler, Josef
Kuba, Attila
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Lai, Jianhuang
Leonardis, Ales
Li, Stan
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Track V: Cognitive Approaches & Soft Computing

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Oskiper, Taragay
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Conference Information

About Hong Kong

Hong Kong is located at the southeastern tip of China, with a total area of 1,103 square kilometers. It covers Hong Kong Island, the Kowloon peninsula just opposite, and the New Territories the more rural section of Hong Kong, which also includes 262 outlying islands.

Hong Kong's population was about 6.88 million in mid-2004. It is one of the world's freest economies and it advocates and practises free trade. Chinese and English are the official languages of Hong Kong.

About Hong Kong Baptist University

Hong Kong Baptist University, the former Hong Kong Baptist College, was founded in 1956 and was renamed the Hong Kong Baptist University in 1994, with a mission to provide quality higher education in a Christian environment for the young people of Hong Kong, combining broad-based liberal education characteristics with academic and professional vigour.

Hong Kong Convention and Exhibition Centre

The Hong Kong Convention and Exhibition Centre is one of Hong Kong's defining landmarks, with its distinctive curved three-tier roof and vast expanse of glass walls creating a dramatic vista. Overlooking famed Victoria Harbour, the Centre is conveniently linked by covered walkways to adjacent luxury hotels, including the Grand Hyatt Hong Kong and the Renaissance Harbour View Hotel. Also close are the MTR - Hong Kong's modern subway system, the airport bus, city buses and ferries, banking, the main post office, and all the shopping and entertainment that Hong Kong is famous for.

Registration and Conference Site

Full Registration

Full registration includes CD proceedings, all coffee breaks, the conference reception and banquet.

Student Registration

Student registration includes CD proceedings and all coffee breaks.

Registration and Help Desk

The Registration and Help Desk is outside Room 401 near the Foyer on August 20 (for tutorials) and Reception Concourse Entrance from August 21 to 24 (for technical sessions). The desk will be open from 8 am to 6 pm during the conference period for registration and queries. Extra tickets for social events and tours may be purchased from the registration desk.

Break Locations

Coffee will be available in the Convention Foyer area.

Meeting Rooms

Rooms 402 and 403 are reserved for meetings. If you require the use of the rooms, please fill in the booking form at the Registration Desk.

Internet Access

A wireless network is provided in Room 408. Cable access and fixed terminals are available in Room 408 from Monday lunchtime.

Message Board

There is a message board in the Convention Foyer area for participants to use. News, meeting announcements and general information will be posted there also.

Exhibition

The following companies will be exhibiting during the conference period in Room 401 near the Foyer.

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Website: http://www.wspc.com.sg/

Demos

The following company will be demonstrating in Room 409.

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Website: http://www.ptgrey.com/

Social Program

Welcome Reception
Monday, 21 August 2006, 6:30pm-8:30pm
Full registrants and accompanying guests

The ICPR2006 Welcome Reception will be a standing buffet dinner held at the Holiday Inn Golden Mile HK Hotel in Tsim Sha Tsui. Coaches will pick up participants from the Hong Kong Convention and Exhibition Centre from 5:40pm to 6:10pm. Additional tickets are available from the Registration Desk for US$70 each person.

Conference Banquet
Wednesday, 23 August 2006, 6:30pm to 8:30pm
Full registrants and accompanying guests

The ICPR2006 Conference Banquet will be held at the Grand Hall, the Hong Kong Convention and Exhibition Centre. Additional tickets are available from the Registration Desk for US$70 each person.

Local Tours

- Morning Colors of Hong Kong Walking Tour
- Half-day Afternoon Heritage Tour
- One Day Shenzhen Excursion Tour
- One Day Macau Tour

Please check with the registration and help desk for information about these and other local tours.

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Directory Enquiries: 1081

Emergency Service (Police, Fire, Ambulance): 999

Hong Kong Tourism Board Visitor Hotline: 2508-1234

General Police Enquiries: 2527-7177

Hong Kong International Airport, English (24 hours): 2181-0000

Hong Kong Immigration Department (24 hours): 2824-6111

Tutorials

Tutorials Co-chairs:
Chao Huan Hou, Institute of Acoustics, Academia Sinica, China
Dit-Yan Yeung, Hong Kong University of Science & Technology, Hong Kong

Anil K. Jain (Michigan State University, USA)
Arun Ross (West Virginia University, USA)
Biometric Recognition: Techniques, Applications and Challenges

Tin Kam Ho (Bell Labs, USA**)**
Principles of Stochastic Discrimination and Ensemble Learning

Thomas S. Huang (University of Illinois at Urbana-Champaign, USA)
Alejandro (Alex) Jaimes (Fuji Xerox, Japan)
Nicu Sebe (University of Amsterdam, The Netherlands)
Human-Centered Vision Systems

David G. Stork (Ricoh Innovations, USA)
Image Processing and Understanding for the Analysis of Master Drawings and Paintings

Jacques Levy Vehel (INRIA, France)
Wavelet-based Multifractal Methods in Image Processing

Massimo Tistarelli (University of Sassari, Italy)
Image Processing Techniques for Face-based Biometrics

Boaz Lerner (Ben-Gurion University, Israel)
Learning Bayesian Networks for Pattern Classification

Matti Pietikainen, Guoying Zhao and Abdenour Hadid (University of Oulu, Finland)
Local Binary Pattern Approach to Computer Vision

Theo Gevers, Nicu Sebe and Arnold Smeulders (University of Amsterdam, The Netherlands)
Content-based Image and Video Retrieval

Angelo Marcelli (University of Salerno, Italy)
Claudio De Stefano (University of Cassino, Italy)
Evolutionary Algorithms for Pattern Recognition

Workshops

Workshops Co-chair:
Nanning Zheng, Xi'an Jiaotong University, China
James Kwok, Hong Kong University of Science and Technology, Hong Kong

Pattern Recognition in Bioinformatics
Organizers: School of Computer Engineering, Nanyang Technological University, Singapore and Computer Science and Engineering, the Pennsylvania State University, USA

Pattern Recognition in Remote Sensing '06
Organizers: International Association for Pattern Recognition and IEEE Geoscience and Remote Sensing Society

Satellite Workshops

Joint IAPR International Workshops on Structural and Syntactic Pattern Recognition (SSPR 2006) and Statistical Techniques in Pattern Recognition (SPR 2006)
Hong Kong, China, 17-19 August 2006
http://www.ssspr.org/2006/

International Workshop on Intelligent Computing in Pattern Analysis/Synthesis (IWICPAS 2006)
Xi'an, China, 26-27 August 2006
http://unit.xjtu.edu.cn/iwicpas/

International Workshop on Medical Imaging and Augmented Reality (MIAR 2006)
Shanghai, China, 17-18 August 2006
http://www.miar.info/

Plenary Speeches

On Context, Modelling, Dimensionality and Small Sample Size in Pattern Recognition

Josef Kittler
Centre for Vision, Speech and Signal Processing, University of Surrey
Hall B/C, 09:00~10:00, Monday, 21/08/06

Abstract: Some of the key issues that have exercised the pattern recognition research community over the last three or four decades will be discussed from a personal historical perspective. These will include design of decision rules, dimensionality of representation, size of the design sample set, and the role of context. The questions of how much progress has been made and what is missing will be considered, with examples from both categories.

About the speaker: Josef Kittler has been a Research Assistant in the Engineering Department of Cambridge University (1973--75), SERC Research Fellow at the University of Southampton (1975-77), Royal Society European Research Fellow, Ecole Nationale Superieure des Telecommuninations, Paris (1977--78), IBM Research Fellow, Balliol College, Oxford (1978--80), Principal Research Associate, SERC Rutherford Appleton Laboratory (1980--84) and Principal Scientific Officer, SERC Rutherford Appleton Laboratory (1985).

He also worked as the SERC Coordinator for Pattern Analysis (1982), and was Rutherford Research Fellow in Oxford University, Dept. Engineering Science (1985). He joined the Department of Electrical Engineering of Surrey University in 1986 as a Reader in Information Technology, and became Professor of Machine Intelligence in 1991. He is the Course Organiser for the MSc Course in Signal Processing and Machine Intelligence. He teaches Machine Intelligence, and Pattern Recognition.

He has worked on various theoretical aspects of Pattern Recognition and Machine Vision. He gained experience in many applications including Automatic Inspection, Remote Sensing, Robotics, Speech recognition, Character Recognition and Document Processing. His current research interests include Pattern Recognition, Neural Networks, Image Processing and Computer Vision. He has co-authored a book with the title *Pattern Recognition: A Statistical Approach* published by Prentice-Hall. He has published more than 500 papers.

He served as a member of the Editorial Board of IEEE Transactions on Pattern Analysis and Machine Intelligence during 1982-85. Currently serves on the Editorial Boards of Image and Vision Computing, Pattern Recognition Letters, Pattern Recognition and Artificial Intelligence, Pattern Analysis and Applications. He served on the Governing Board of the International Association for Pattern Recognition (IAPR) as one of the two

British representatives during the period 1982-2005. He was the President of the IAPR during 1994-1996. Currently he chairs the IAPR Constitution and Bylaws Committee.

Fingerprints: Proving Ground for Pattern Recognition

Anil K. Jain
Department of Computer Science & Engineering, Michigan State University
Hall B/C, 09:00~10:00, Tuesday, 22/08/06

Abstract: The smoothly flowing pattern formed by alternating crests (ridges) and troughs (valleys) on each finger tip is referred to as a fingerprint. A fingerprint is believed to be unique to each person (and each finger). Fingerprints of even identical twins are different and it has been claimed that the fingerprint of an individual does not change throughout the lifetime, unless there is a significant injury to the finger that creates a permanent scar. The term fingerprint is now synonymous with any uniqueness or inherent characteristic, e.g., "DNA fingerprinting". Galton was so fascinated by these marks on the human body that he remarked in his article in Nature in 1888 that "*Perhaps the most beautiful and characteristics of all superficial marks are the small furrows with intervening ridges and pores that are disposed in a singularly complex yet even order on the under surfaces of the hands and the feet*". It is the early scientific work of Faulds, Galton and Henry that forms the basis of fingerprint pattern recognition systems, called AFIS (Automatic Fingerprint Identification System) that are being used by law enforcement agencies world wide for over 40 years. As an example, the IAFIS (Integrated AFIS) system used by the Federal Bureau of Investigation (FBI) has a database consisting of approximately 500 million fingerprint images of 50 million individuals (one print/finger) and performs about 50,000 searches (queries) per day with an impressive accuracy and response time. Fingerprint identification is perhaps the most mainstream application and the largest deployment of pattern recognition technology.

The requirements of reliable and highly accurate personal identification in a number of government and commercial applications (e.g., international border crossings, e-passports, access control to buildings, laptops and mobile phones, financial transactions) have served as an impetus for a tremendous growth in fingerprint recognition technology. This, in turn, has led to new developments in fingerprint sensing and robust and efficient feature extractors and matchers. About 45% of the global biometric recognition market, whose revenues are projected to grow from about US $2.1B in 2006 to US $5.7B in 2010, is expected to be dominated by fingerprints. This growth in the use of fingerprint technology driven largely by government programs and private-sector initiatives will affect a large portion of population worldwide (e.g., the US-VISIT program). This, in turn, will place some unique requirements and constraints on the design of fingerprint pattern recognition systems pertaining to sensing, ergonomics, recognition accuracy, response time and throughput. This talk will provide a brief history of fingerprints, design of a fingerprint pattern recognition system, emerging applications and some recent developments and challenges. We believe that research in designing fingerprint

recognition systems will push the frontiers of pattern recognition and have numerous societal benefits.

About the speaker: Anil Jain is a University Distinguished Professor in the Departments of Computer Science & Engineering, Electrical & Computer Engineering and Statistics & Probability at Michigan State University. He received his B.Tech. degree from the Indian Institute of Technology, Kanpur and M.S. and Ph.D. degrees from Ohio State University. His research interests include statistical pattern recognition, data clustering and biometric authentication. He received awards for best papers in 1987 and 1991 from the Pattern Recognition Society and received the 1996 IEEE Transactions on Neural Networks Outstanding Paper Award. He served as the Editor-in-Chief of the IEEE Transactions on Pattern Analysis and Machine Intelligence. He is a Fellow of the AAAS, ACM, IEEE, IAPR and SPIE. He has received a Fulbright Research Award, a Guggenheim fellowship and the Alexander von Humboldt Research Award. He delivered the 2002 Pierre Devijver lecture sponsored by IAPR and received the 2003 IEEE Computer Society Technical Achievement Award. Holder of six patents in the area of fingerprint matching, he is the author of a number of books, including Handbook of Multibiometrics, Springer 2006, Handbook of Face Recognition, Springer 2005, Handbook of Fingerprint Recognition, Springer 2003, BIOMETRICS: Personal Identification in Networked Society, Kluwer 1999, Markov Random Fields: Theory and Applications, Academic Press 1993 and Algorithms for Clustering Data, Prentice Hall, 1988. ISI has designated him as a highly cited researcher. He currently serves as an Associate editor of the IEEE Transactions on Information Forensics and Security and ACM Transactions on Knowledge Discovery in Data. He is a member of The National Academies committees on “Whither Biometrics” and “Improvised Explosive Devices”.

Chinese Character Recognition: Status and Prospects in Research and Applications

Ru-Wei Dai (Ju Wei Tai)
Institute of Automation, Chinese Academy of Sciences, China
Hall B/C, 09:00~10:00, Wednesday, 23/08/06

Abstract: Computer recognition of Chinese characters was considered an extremely difficult problem due to the large set of characters, complicated structures, similarity between characters, and variability of fonts and writing styles. Since the early attempt of Casey and Nagy in 1960s at IBM, a large number of efforts have been made by worldwide researchers to attack this problem. Particularly, many effective methods were proposed in 1980s and 1990s. The 1990s witnessed a rapid increase of successful applications to various areas, such as postal mail sorting, business card recognition, bank check and transaction forms processing, and recently, in digital libraries and mobile phones. However, higher recognition performance is continuously needed to improve the existing applications and to exploit new applications.

The contents of this talk include four major parts: the nature of Chinese character recognition problem, a historical review of research works, current status of methods and

applications, and prospects. We will emphasize on the methods that make applications successful, including those for pre-processing, feature extraction, classification, and contextual processing. As for classification, we will compare statistical, structural (syntactic), and hybrid statistical-structural (semantic-syntactic) methods, and will pay special attention to strategies for accelerating large character set recognition and learning from large amount of sample data, as well as the multi-classifier (meta-synthesis) approach for improving the recognition accuracy. We will show the remaining problems and discuss the possibilities to solve them. Last, we will show a higher performance recognition system to demonstrate the current technology.

About the speaker: Ruwei Dai (Juwei Tai) is a member (Academician) of Chinese Academy of Sciences (CAS). He graduated from Peking University in 1955. From 1980 to 1982, he was a visiting scholar at the School of Electrical Engineering, Purdue University, worked with Prof. K.S. Fu. He was elected to a member of CAS in 1991, and was a part-time professor of Tsinghua University and Beijing Normal University, and a honorary professor of more than 30 universities. Currently, he is a research professor at the Institute of Automation of CAS, the president of Chinese Association of Automation, vice chairman of the Information Science Division of CAS, academic committee chairman of Sino-Canadian High-Tech Center of Resources and Environment, and the Editor-in-Chief of the Chinese Journal of Pattern Recognition and Artificial Intelligence. Professor Dai's research interests include Automatic Control, Pattern Recognition, Artificial Intelligence, Intelligent Control and Noetic Sciences. In 1950s, he was engaged in research on Engineering Cybernetics and Optimal Control, and solved the numerical calculating problem of time optimal control. In 1970s, he studied pattern recognition firstly in China, and proposed the semantic-syntactic method by combining statistical pattern recognition with syntactic pattern recognition. Since the middle of 1980s, he applied artificial neural network to knowledge systems and pattern recognition, and worked on associated memory and thinking in imagery by means of neural network. In the beginning of 1990s, his interests were Intelligent Control, handwritten Chinese character recognition by meta-synthesis, Open Complex Giant System and its methodology. Up to now, he has published 5 books and more than 200 articles, and has supervised more than 70 Ph.D. and MS students. He cooperated with famous Chinese scientist Xuesen Qian (H.S. Tsien) and others to do the research on some frontier scientific fields. He edited a series of books "Intelligent Automation", which got the national book award of 1999.

What are Classifier Ensembles Good for Anyway and How Would You Know?

Lawrence O. Hall
Department of Computer Science and Engineering, University of South Florida
Hall B/C, 09:00~10:00, Thursday, 24/08/06

Abstract: Ensembles of classifiers can result in an overall classifier that is more accurate than a single classifier. However, they are more costly to create. In this talk we will argue that an ensemble can be useful in building a model of very large data sets

even if members of the ensemble see only a nonstratified portion of the data. Several examples will be given. Further, a 57 data set statistical comparison of some rapid, and not so rapid, ensemble classifier construction approaches will be discussed.

About the speaker: Lawrence O. Hall is a Professor of Computer Science and Engineering at University of South Florida. He received his Ph.D. in Computer Science from the Florida State University in 1986 and a B.S. in Applied Mathematics from the Florida Institute of Technology in 1980. He is a fellow of the IEEE. His research interests lie in distributed machine learning, extreme data mining, pattern recognition and integrating AI into image processing. The exploitation of imprecision with the use of fuzzy logic in pattern recognition, AI and learning is a research theme. He has authored or co-authored over 60 publications in journals, as well as many conference papers and book chapters. Some recent publications appear in Articial Intelligence in Medicine, Neural Computation, Pattern Recognition Letters, Journal of Machine Learning research, IEEE Transactions on Systems, Man, and Cybernetics, IEEE Transactions on Evolutionary Computing, the International Conference on Data Mining, the Multiple Classier Systems Workshop, and the FUZZ-IEEE conference.

He received the IEEE SMC Society Outstanding contribution award in 2000. He received an Outstanding Research achievement award from the Univ. of South Florida in 2004. A past president of NAFIPS. The former vice president for membership of the SMC society. He is the President of the IEEE Systems, Man and Cybernetics society for 2006. He was the Editor-In-Chief of the IEEE Transactions on Systems, Man and Cybernetics, Part B, 2002-05. Also, associate editor for IEEE Transactions on Fuzzy Systems, International Journal of Intelligent Data Analysis, and International Journal of Approximate Reasoning.

Invited Papers

A Computational Model of Social Signaling
Alex Pentland
MIT Media Lab, Massachusetts Institute of Technology
Room 406/7, 13:30~14:10, Monday, 21/08/06

Abstract: I have proposed that unconscious voice, face, hand, and body gestures form a motion texture that convey social signals, and that these signals are an important determinant of human behavior. In this talk I will describe the theoretical and computational framework that I have developed for measuring social signaling, and survey the results obtained using this computational model for the perception of social displays.

About the speaker: Prof. Alex (Sandy) Pentland is a pioneer in wearable computers, health systems, smart environments, and technology for developing countries. He is one of the most-cited computer scientists in the world. He is a co-founder of the Wearable Computing research community, the Autonomous Mental Development research community, the Center for Future Health, and was the founding director of the Media Lab Asia. He was formerly the Academic Head of the MIT Media Laboratory, and is MIT's Toshiba Professor of Media Arts and Sciences, and Director of Human Dynamics Research. He has won numerous international awards in the Arts, Sciences and Engineering. He was chosen by Newsweek as one of the 100 Americans most likely to shape the next century.

Kernel Machines for Computer Graphics
Bernhard Schölkopf
Department of Empirical Inference Max Planck Institute for Biological Cybernetics
Room 406/7, 15:40~16:20, Monday, 21/08/06

Abstract: Support vector machines and other kernel methods have become part of the standard toolkit for pattern recognition. The talk will describe recent work assaying how these methods can be adapted to problems occuring in computer graphics, with emphasis on the problems of implicit surface approximation and the estimation of object correspondences and morphs.

About the speaker: Bernhard Schölkopf was born in Stuttgart on 20 February, 1968. He received an M.Sc. in mathematics and the Lionel Cooper Memorial Prize from the University of London in 1992, followed in 1994 by the Diplom in physics from the Eberhard-Karls-Universität, Tübingen. Three years later, he obtained a doctorate in computer science from the Technical University Berlin. His thesis on Support Vector Learning won the annual dissertation prize of the German Association for Computer Science (GI). In 1998, he won the prize for the best scientific project at the German

National Research Center for Computer Science (GMD). He has researched at AT&T Bell Labs, at GMD FIRST, Berlin, at the Australian National University, Canberra, and at Microsoft Research Cambridge (UK). He has taught at Humboldt University, Technical University Berlin, and Eberhard-Karls-University Tübingen. In July 2001, he was appointed scientific member of the Max Planck Society and director at the MPI for Biological Cybernetics; in October 2002, he was appointed Honorarprofessor for Machine Learning at the Technical University Berlin. He has been program chair of COLT and NIPS and serves on the editorial boards of JMLR, IEEE PAMI, and IJCV.

Computers in the Human Interaction Loop (CHIL) or: How to Overcome Techno-Clutter

Alexander Waibel
School of Computer Science, Carnegie Mellon University and University of Karlsruhe
Room 401, 10:30~11:10, Tuesday, 22/08/06

Abstract: After building computers that paid no intention to communicating with humans, the computer science community has devoted significant effort over the years to more sophisticated interfaces that put the "human in the loop" of computers. These interfaces have improved usability by providing more appealing output (graphics, animations), more easy to use input methods (mouse, pointing, clicking, dragging) and more natural interaction modes (speech, vision, gesture, etc.). Yet productivity gains attributed to more natural interfaces has been somewhat disappointing, as the machine still operates in a largely passive mode, requiring considerable attention of the user to the artifacts of technology rather than to the tasks at hand or the interaction with other humans.

In this talk, we present an alternate way: putting Computers in the Loop of Human Interaction (CHIL), rather than the other way round. CHIL provides a paradigm by which computers provide assistance implicitly and proactively, while causing minimal interference. A family of "CHIL" computing services can be envisioned, where humans interact with humans and computers hover in the background providing assistance wherever needed. Providing such services in real life situations, however, brings formidable technical challenges. Computers must be made aware of the activities, locations, interactions, and cognitive states of the humans that they are to serve and they must become socially responsive. Services must be delivered and provided in a private, secure, and socially acceptable manner.

The European funded project CHIL attempts to address all these challenges. It includes work on a service layer, which builds prototypical CHIL services and evaluates their usefulness and usability. The Service layer, in turn, builds on a technology layer, which provides a complete description of human activities and interactions that allow it to derive and infer needs, i.e., the WHO, WHERE, HOW, TO WHOM, WHY, WHEN of human interaction and engagement. To build acoustic and visual recognition technologies as descriptors, we have set up several meeting and lecture rooms equipped

with a myriad of acoustic and visual sensors. Based on these sensors, large databases of real human office data have been collected, and large scale technology development efforts are underway. Processing real, unscripted interaction data poses considerable additional problems related to robustness, as variability due to noise, interference, occlusion, illumination, and many more, compound the processing challenges.

To make rapid progress, therefore, several international, benchmarking campaigns have initiated, where each of the contributing technologies is evaluated and compared, leading to considerable progress in the field. In this talk, I will discuss the technologies and present several prototypical services under development.

About the speaker: Alex Waibel is a Professor of Computer Science at Carnegie Mellon University, Pittsburgh and at the University of Karlsruhe (Germany). He directs InterACT, the international Center for Advanced Communication Technologies at both Universities with research emphasis in speech recognition, language processing, speech translation, multimodal and perceptual user interfaces. At Carnegie Mellon, he also serves as Associate Director of the the Language Technologies Institute and holds joint appointments in the Human Computer Interaction Institute and the Computer Science Department.

Dr. Waibel was one of the founders of C-STAR, the international consortium for speech translation research and served as its chairman from 1998-2000. His team has developed the JANUS speech translation system, the first American and European Speech Translation system, and more recently the first real-time sumultaneous translation system of lectures. His lab has also developed a number of multimodal systems including perceptual Meeting Rooms, Meeting recognizers, Meeting Browser and multimodal dialog systems for humanoid robots. He currently directs CHIL program (the largest FP-6 Integrated Project on multimodality) in Europe and the NSF-ITR project STR-DUST (the first domain independent speech translation project) in the US. In the areas of speech, speech translation, and multimodal interfaces Dr. Waibel holds several patents and has founded and co-founded several successful commercial ventures.

Dr. Waibel received the B.S. in Electrical Engineering from the Massachusetts Institute of Technology in 1979, and his M.S. and Ph.D. degrees in Computer Science from Carnegie Mellon University in 1980 and 1986. His work on the Time Delay Neural Networks was awarded the IEEE best paper award in 1990. His contributions to multilingual and speech translation systems was awarded the "Alcatel SEL Research Prize for Technical Communication" in 1994, the "Allen Newell Award for Research Excellence" from CMU in 2002, and the Speech Communication Best Paper Award in 2002.

Image Representation and Retrieval Using Support Vector Machine and Fuzzy C-means Clustering Based Semantical Spaces

Prabir Bhattacharya
Concordia Institute for Information Systems Engineering, Concordia University
Room 401, 13:30~14:10, Tuesday, 22/08/06

Abstract: This talk presents a learning based framework for content-based image retrieval to bridge the gap between low-level image features and high-level semantic information presented in the images on semantically organized collections. Both supervised (probabilistic multi-class support vector machine) and unsupervised (fuzzy c-means clustering) learning based techniques are investigated to associate global MPEG-7 based color and edge features with their high-level semantical and/or visual categories. It represents images in a successive semantic level of information abstraction based on confidence or membership scores obtained from the learning algorithms. A fusion-based similarity matching function is employed on these new image representations to rank and retrieve most similar images compared to a query image. Experimental results on a generic image database with manually assigned semantic categories and on a medical image database with different modalities and examined body parts demonstrate the effectiveness of the proposed approach compared to the commonly used Euclidean distance measure on MPEG-7 based descriptors.

About the speaker: Prabir Bhattacharya is currently a full Professor at the Concordia Institute for Information Systems Engineering, Concordia University, Montreal, Canada where he holds a Canada Research Chair, Tier 1. During 1986-99, he served at the Department of Computer Science and Engineering, University of Nebraska-Lincoln, USA. During 1999-2004 he worked as a Principal Scientist at the Panasonic Information and Networking Technologies Lab in Princeton, New Jersey, USA. He received a D.Phil. from the University of Oxford, UK in 1979 specializing in group theory, and completed his undergraduate studies at the University of Delhi, India. He is a Fellow of the IEEE, the IAPR, and the IMA. He is currently serving as the Associate Editor-in-Chief of the IEEE Transactions on Systems, Man and Cybernetics, Part B (Cybernetics). Also, he is an associate editor of the Pattern Recognition, Pattern Recognition Letters, International Journal of Pattern Recognition and Artificial Intelligence, and Machine Graphics and Vision. He holds two US Patents, 7 Japanese Patents, and has co-authored over 170 publications including 85 journal papers, and also co-edited a book on Vision Geometry.

Remaining Problems in Multiview Geometry

Richard Hartley
Department of Systems Engineering, Australian National University
Hall B/C, 15:40~16:20, Tuesday, 22/08/06

Abstract: The development of Multiple-view geometry in the last decade and a half brought with it the mathematical formalization of the subject of structure and motion, and many of its concepts are now part of the every-day language of computer vision -

homography, fundamental matrix, camera matrix. The practical advances that this has brought have been impressive also. Automatic real-time algorithms for structure and motion have been demonstrated. Nevertheless, some problems in structure and motion have not found a satisfactory solution. These include reconstruction from many view of many points, and self calibration. Algorithms have remained somewhat heuristic.

Optimization methods that have been used to solve such problems have been largely resticted to local least-squares methods (notably the Levenberg-Marquardt algorithm). Recent discovery of new methods of optimization have opened the way to finding guaranteed optimal techniques for finding the global best solution.

This talk will survey the history of Multiple-view geometry, identify some of the remaining problems, and suggest possible ways in which some of these prolems may be solved.

About the speaker: Professor Richard Hartley is a member of the Vision Science, Technology and Applications Program in National ICT Australia; from 2003 until 2006 he was the leader of this research group. This program seeks to apply method of Computer Vision and Sensor Technology in a range of real-world problems, ranging from motor-vehicle safety to improved methods of health care. To this end, the research program supports research projects in Intelligent Vehicles, Surveillance, Mobile Robotics and Medical Imaging.

In 2001, Professor Hartley returned from the USA to a position in the Department of Information Engineering at the Australian National University. Before that, he worked at the General Electric Research and Development Center in Schenectady New York from 1985 to 2001. During the period 1985-1988, he was involved in the design and implementation of Computer-Aided Design tools for electronic design and created a very successful design system called the Parsifal Silicon Compiler. In 1991 he was awarded GE's Dushman Award for this work.

He began work in Image Understanding and Scene Reconstruction for GE's Simulation and Control Systems Division. This division built large-scale flight-simulators. Dr. Hartley's projects in this area were in the construction of terrain models and texture mosaics from aerial and satellite imagery.

In 1991, he began an extended research effort in the area of applying geometric techniques to the analysis of video. This far-reaching research led to fundamental advances in maching-understanding of video, and opened up one of the most popular areas of Computer Vision research in the 1990s. The most visible outcome of this research was in automating the creation of special effects in the film entertainment industry. In 2000, he co-authored a book “Multiple View Geometry in Computer Vision” for Cambridge University Press, summarizing the previous decade’s research in this area. This has become one of the most popular research reference texts in Computer Vision.

He has authored over 100 papers in Photogrammetry, Computer Vision, Geometric Topology, Geometric Voting Theory, Computational Geometry and Computer-Aided Design, and holds 34 US patents.

Variations on Variational Principles for Computer Vision

Olivier Faugeras
National Research Institute in Computer Science and Control Theory (INRIA), France
Hall B/C, 10:30~11:10, Wednesday, 23/08/06

Abstract: The idea that variational principles are crucial to elucidate Nature's laws is central in Physics. This presentation shows that the same is true for such problems as the reconstruction of 3D shapes from several static or dynamic images or the characterization of visual shapes, visual shapes' similarities and statistics. We adopt a pedestrian approach to explain the main ideas and illustrate them with many examples drawn from our recent research.

About the speaker: Olivier Faugeras is a graduate from the Ecole Polytechnique (1971). He holds a PhD in Computer Science and Electrical Engineering from the University of Utah (1976) and a Doctorate of Science from Paris VI University (1981). He is currently Research Director at INRIA (National Research Institute in Computer Science and Control Theory), where he leads the Odyssée laboratory located in Sophia-Antipolis and Ecole Normale Supérieure, Paris. His research interests include the application of mathematics to computer and biological vision, shape representation and recognition, the use of functional imaging (MR, MEG, EEG) for understanding brain activity and in particular visual perception. He has published extensively in archival Journals, International Conferences, has contributed chapters to many books and is the author of "Artificial 3-D Vision" published in 1993 by MIT Press and, with Quang-Tuan Luong and Thˆmo Papadopoulo, of "The Geometry of Multiple Images" which appeared in March 2001, also at MIT Press. He has co- edited with Nikos Paragios and Yunmei Chen "The Handbook of Mathematical Models in Computer Vision" published in 2005 by Springer.

He was an adjunct Professor from 1996 to 2001 in the Electrical Engineering and Computer Science Department of the Massachusetts Institute of Technology and a member of the AI Lab. He is an Associate Editor of several international scientific Journals including Machine Vision and Applications, Videre, Image and Vision Computing. He has served as Associate Editor for IEEE PAMI from 1987 to 1990 and as co-Editor-in-Chief of the International Journal of Computer Vision from 1991 to 2004.

In April 1989 he received the "Institut de France - Fondation Fiat" award from the French Academy of Sciences for his work in Vision and Robotics. In July 1998 he received the "France Telecom" award from the French Academy of Sciences for his work on Computer Vision and Geometry. In November 1998 he was elected a member

of the French Academy of Sciences and was in 2000 one of the founding members of the French Academy of Technology.

Some Pattern Recognition Challenges in Data-Intensive Astronomy

George Djorgovski
Department of Astronomy, California Institute of Technology
Hall A, 13:30~14:10, Wednesday, 23/08/06

Abstract: We review some of the recent developments and challenges posed by the data analysis in modern digital sky surveys, which are representative of the information-rich astronomy in the context of Virtual Observatory. Illustrative examples include the problems of an automated star-galaxy classification in complex and heterogeneous panoramic imagingdata sets, and an automated, iterative, dynamical classification of transient events detected in synoptic sky surveys. These problems offer good opportunities for productive collaborations between astronomers and applied computer scientists and statisticians, and are representative of the kind of challenges now present in all data-intensive fields. We discuss briefly some emergent types of scalable scientific data analysis systems with a broad applicability.

About the speaker: S. George Djorgovski is a Professor of Astronomy and a Co-Director of the Center for Advanced Computing Research (CACR) at Caltech. After receiving his Ph.D. from U. C. Berkeley in 1985, he was a Harvard Junior Fellow before joining the Caltech faculty in 1987. He was a Presidential Young Investigator and an Alfred P. Sloan Foundation Fellow, among other distinctions and honors. Prof. Djorgovski is an author or coauthor of several hundred publications, including over 200 papers in refereed journals. His professional interests span a broad range of subjects in astronomy and cosmology, as well as the interplay of science and computing, especially in the context of analysis and understanding of massive and complex data sets. This included some of the pioneering applications of machine learning tools for processing and analysis of large digital sky surveys. Prof. Djorgovski is one of the co-founders of the Virtual Observatory concept, and he served as the Chairman of the U.S. National Virtual Observatory Science Definition Team, among other related functions.

Invariants for 2D and 3D Pattern Recognition Problems - New Results for a Classical Problem

Hans Burkhardt
Institute for Computer Science, Albert-Ludwigs University
Hall A, 15:40~16:20, Wednesday, 23/08/06

Abstract: In many pattern recognition problems images have to be classified independent of their current position and orientation, which is just a nuisance parameter. Instead of comparing a measured pattern in all possible locations against the prototypes it is much more attractive to extract position-invariant and intrinsic features and to

classify the objects in the feature space. Mathematically speaking, patterns form an equivalence class with respect to a geometric coordinate transform describing motion. Invariant transforms are able to map such equivalence classes into one point of an appropriate feature space.

The talk will describe new results for this classical problem and outlines general principles for the extraction of invariant features from images (Haar integrals, Lie-Theory, Normalization techniques). The nonlinear transforms are able to map the object space of image representation into a canonical frame with invariants and geometrical parameters. Beside the mathematical definition the talk will concentrate on characterizing the properties of the nonlinear mappings with respect to completeness and possible ambiguities, disturbance behavior and computational complexity. We especially investigated Haar integrals for the extraction of invariants based on monomial and relational kernel functions.

Examples and applications will be given for problems in 2D and 3D, namely applications in content-based image and object retrieval and classification tasks in 2D and 3D (classification and retrieval of biological objects and structures).

About the speaker: Hans Burkhardt obtained his Dipl.-Ing. degree in electrical engineering in 1969, Dr.-Ing. degree in 1974, and the Venia Legendi in 1979 from the University of Karlsruhe, Germany. From 1969 he was Research Assistant and in 1975 he became Lecturer at the University of Karlsruhe. During 1980-81 he had a scientific fellowship at the IBM Research Laboratory, San Jose, CA. In 1981 he became Professor for Control and Signal Theory at the University of Karlsruhe. During 1985-1996 he was full Professor at the Technical University of Hamburg and director of an Institute in the Computer Science Department and additionally scientific advisor between 1990 and 1996 for the Microelectronic Application Center (MAZ) in Hamburg. Since 1997 he is full Professor at the Computer Science Department of the University of Freiburg; director of an Institute for Pattern Recognition and Image Processing and currently Deputy Dean of the Faculty for Applied Sciences. Since 2000 he is president of the German Association for Pattern Recognition (DAGM). He is a member of the "Academy of Sciences and Humanities, Heidelberg", of "acatech" (Council of Technical Sciences of the German Academies of Sciences) and a Fellow of the International Association for Pattern Recognition (IAPR). 2003/2004 he was on a sabbatical leave for half a year as a Visiting Researcher at the National ICT (NICTA) at the Australian National University (ANU) in Canberra, Australia.

He has published over 150 papers and given more than 200 lectures. He is a consultant for several national and international institutions e.g. the German Science Foundation (DFG), the European Commission and different international organizations and journals. In 1998 he was chair of the European Conference on Computer Vision (ECCV).

Challenges for Data Mining in Distributed Senor Networks

Virginio Cantoni
Computer and Systems Engineering Department, University of Pavia
Room 404/5, 10:30~11:10, Thursday, 24/08/06

Abstract: The way of collecting senor data will face a revolution when the newly developing technology of distributed sensor networks becomes fully functional and widely available. Smart sensors will acquire full interconnection capabilities with similar devices, so that run-time data aggregation, parallel computing, and distributed hypothesis formation will become reality with off-the-shelf components and sensor boards. This revolution started around ten years ago, and now hardware and network are converging on the first convincing solutions. Exploring and exploiting this paradigm are a renovated challenge for the pattern recognition and data mining community. This paper attempts a survey on state-of-the-art of wireless sensor technology, with an eye on data-related problems and technological limits. Although the possibilities seem promising, the today limited computational resources of individual nodes hamper the elaboration of data with recent, computationally-intensive algorithms. New software paradigms must be developed, both creating new techniques or adapting, for network computing, old algorithms of earlier ages of computing.

About the speaker: Virginio Cantoni was born in 1948 and received the Laurea (cum laude) in Electronic Engineering in 1972 from Pavia University, Italy.

From 1975 to 1983 he was researcher of the Italian National Research Council. He is presently Full Professor of Computer Programming. He has been for the period 1985-1990 President of the Italian Group of the International Association for Pattern Recognition (IAPR) and for the period 1989-1995 the Director of the Department of Computer and Systems Engineering of Pavia University. He has been Visiting Professor for the Spring Semester of 1987 at Rutgers University, at the Center of Computer Aids for Industrial Productivity (CAIP), New Jersey. Since the academic year 1994/95, he has been Invited Professor for one month per year at the Paris XI University. In July 1995 he has been nominated member of the Conseil d'Orientation Scientifique International of the Pole Universitaire Europeen de Tolouse.

His most recent work is concerned with object recognition and parallel architectures for image processing and computer vision. He has been in the 80's the coordinator of an Italian National Project involving researchers of a consortium of seven Universities for the design and construction of a pyramidal system for image analysis. Since 1993, he is the coordinator of an Italian National Project on Multimedia Systems involving several universities.

He is author or co-author of more than 130 Journal or Conference papers and book chapters and the editor or co-editor of 13 books and co-author of a book on 'Pyramidal Architectures for Computer Vision'. He organized a number of International

Conferences and a NATO Advanced Research Workshop (as co-Director) on subjects related to image processing and computer vision.

He is Fellow of the IAPR (International Association for Pattern Recognition) since 1994 and Fellow of IEEE (Institute of Electrical and Electronic Engineers) since 1997.

Information Fusion in Pattern Recognition Systems with Application to Biometrics

Josef Kittler
School of Electronics and Physical Sciences, University of Surrey
Room 404/5, 13:30~14:10, Thursday, 24/08/06

Abstract: By definition, any pattern recognition system fuses measurement information to reach a decision about the identity of an object or phenomena to be recognised. The classical statement of the problem of pattern recognition system design, which has been addressed in this form for decades, is as follows: how can the available measurement information be combined in order to find the best possible separation of pattern classes. However, this paper is concerned with information fusion at somewhat different level. It is well recognised that the process of classifier design is detrimentally affected by serious lack of knowledge of the underlying probability distributions of pattern classes. This is manifest in structural and estimation errors which affect the accuracy of the models that are inferred as part of the classifier design process. A relatively recent body of evidence suggests that Bayesian estimation methods can provide a measure of protection against severe modelling errors and their use results in better pattern recognition system designs, with significantly boosted performance. The essence of Bayesian estimation is to integrate over the probability distributions of the system design parameters. In practice, this integration can be accomplished by building and combining multiple classifiers. In the paper the three basic paradigms of multiple classifier fusion will be introduced. The focus of the discussion will then be on multimodal fusion, where sensory information from multiple sensors is combined to accumulate complimentary sources of information about the objects to be classified. The problem of intramodal fusion will then be considered. The merit of multiple classifier fusion will be illustrated on the problem of personal identity authentication using multiple biometric modalities.

About the speaker: Please see Page 33.

Session Identifiers

The sessions are labelled according to the following scheme:

[Day]-[Presentation]-[Track]-[Period][Parallel session]

Day: **Mon**day, **Tue**sday, **Wed**nesday, **Thu**rsday
Presentation: **O**ral, **P**oster
Track: **I**, **II**, **III**, **IV**, **V**
Period: **1**(10:30~12:30), **2**(13:30~15:10), **3**(15:40~17:40)
Parallel session: (blank), **a**, **b**

Example 1: "Mon-P-V-1" denotes Monday, Poster session, Track V, Period 1.
Example 2: "Tue-O-I-3a" denotes Tuesday, Oral session, Track I, Period 3, parallel session a (there should be parallel session b "Tue-O-I-3b" as well).

Track I: Computer Vision and Image Analysis
Track II: Pattern Recognition and Basic Technologies
Track III: Signal, Speech and Image Processing
Track IV: Systems, Robotics and Applications (with Associated Theme: Biometrics)
Track V: Cognitive Approaches & Soft Computing

Sessions are listed chronologically, and Oral Sessions are followed by Poster Sessions. Oral sessions of Tracks I to V are ordered according to track numbers and assigned to Hall B/C, Hall A, Room 401, Room 404/405 and Room 406/407 respectively, except when there are parallel sessions for the same track. For example, after the coffee break on Tuesday afternoon, there are five oral sessions: Tue-O-I-3a, Tue-O-II-3, Tue-O-III-3, Tue-O-IV-3 and Tue-O-I-3b. Note that Tue-O-I-3b (Track I) is listed after Tue-O-IV-3 (Track IV).

Presentation Guidelines

Oral Sessions:

There are five parallel oral sessions during each period. Each oral paper is allocated 20 minutes, with 15 minutes for presentation and 5 minutes for questions and answers.

Speakers should go to the session room at least 15 minutes before their session starts, introduce themselves to the session chairs and check their presentation material with the computer and audio-visual equipment.

The computer in each session room can display MS PowerPoint and Adobe PDF files. Speakers can bring their presentation material on USB drives. If you use other digital storage devices not supported by the computer in the session room, please ask a conference helper to transfer the files.

Poster Sessions:

Each board is labeled with a Poster ID. Please locate your Poster ID, which is the number before your paper title in this program booklet, for your presentation. The presenters are responsible for setting up and taking down their own posters during the conference.

You are requested to put up your poster 15 minutes before your designated session and then take it down no later than 15 minutes after your session. The conference organizers reserve the right to remove any poster left on the board overtime and will not be held responsible for any loss of or damage to the poster.

Posters must be attached with non-permanent adhesive (such as blue-tac or double-sided tapes). Push-pins, thumb-tacks, or staples are not allowed. The conference organizers will provide such adhesive material in the poster area.

Monday Morning	**Convention Foyer**	**Hall B/C**	**Hall A**	**Room 401**	**Room 404/5**	**Room 406/7**
08:45~09:00		Opening Ceremony				
09:00~10:00		Plenary Session: K. S. Fu Prize Lecture (Hall B/C) On Context, Modelling, Dimensionality and Small Sample Size in Pattern Recognition *Josef Kittler, University of Surrey*				
10:00~10:30	Coffee/Tea Served at Convention Foyer					
10:30~12:30	Mon-P-I-1: 3D and Stereo Mon-P-V-1: Cognitive Approaches and Soft Computing	Mon-O-I-1: 3D Reconstruction and Segmentation	Mon-O-II-1: Character Recognition and Document Analysis	Mon-O-III-1: Signal Coding and Compression	Mon-O-IV-1: Biomedical Imaging I	Mon-O-V-1: Gesture and Emotion Recognition
12:30~13:30	Lunch Break					
	Plenary Session: J. K. Aggarwal Prize Lecture (Hall B/C, during lunch time)					

Monday Afternoon	**Convention Foyer**	**Hall B/C**	**Hall A**	**Room 401**	**Room 404/5**	**Room 406/7**
13:30~15:10	Mon-P-I-2: Face and Human Analysis	Mon-O-I-2: Image Analysis Applications	Mon-O-II-2: Clustering Algorithms I	Mon-O-III-2: Document Image Enhancement	Mon-O-IV-2: Fingerprints	Mon-O-V-2: Human Computer Interaction (Invited Talk 1)
15:10~15:40	Coffee/Tea Served at Convention Foyer					
15:40~17:40	Mon-P-I-3: Computer Vision	Mon-O-I-3: Face Recognition	Mon-O-II-3: Clustering Algorithms II	Mon-O-III-3: Visualization and Restoration	Mon-O-IV-3: Range Imaging and Remote Sensing Applications	Mon-O-V-3: Semantic Analysis for Content Retrieval (Invited Talk 2)
18:30~20:30	Reception					

Invited Talk 1: A Computational Model of Social Signaling
Alex Pentland, MIT Media Lab

Invited Talk 2: Kernel Machines for Computer Graphics
Bernhard Schölkopf, Department of Empirical Inference, Max Planck Institute for Biological Cybernetics

Tuesday Morning	**Convention Foyer**	**Hall B/C**	**Hall A**	**Room 401**	**Room 404/5**	**Room 406/7**
09:00~10:00		Plenary Session (Hall B/C) Fingerprints: Proving Ground for Pattern Recognition *Anil K. Jain, Michigan State University*				
10:00~10:30	Coffee/Tea Served at Convention Foyer					
10:30~12:30	Tue-P-I-1: Image Analysis	Tue-O-I-1: Geometry and Calibration	Tue-O-II-1: Learning Algorithms I	Tue-O-III-1: Speech Processing and Understanding (Invited Talk 3)	Tue-O-IV-1: Face, Body & Expression Recognition, Pose Detection	Tue-O-V-1: Human Action Analysis and Recognition
12:30~13:30	Lunch Break					

Invited Talk 3: Computers in the Human Interaction Loop (CHIL) or: How to Overcome Techno-Clutter
Alexander Waibel, Carnegie Mellon University and University of Karlsruhe

Tuesday Afternoon	**Convention Foyer**	**Hall B/C**	**Hall A**	**Room 401**	**Room 404/5**	**Room 406/7**
13:30~15:10	Tue-P-II-2: Advances in Basic Methodology I	Tue-O-I-2a: Human Activity Analysis	Tue-O-II-2: Image Recognition	Tue-O-III-2: Image and Data Representation (Invited Talk 4)	Tue-O-IV-2: Multimedia and Human Machine Interaction	Tue-O-I-2b: Pattern and Shape Analysis
15:10~15:40	Coffee/Tea Served at Convention Foyer					
15:40~17:40	Tue-P-II-3: Visual Pattern Recognition	Tue-O-I-3a: Stereo and Motion I (Invited Talk 5)	Tue-O-II-3: Learning Algorithms II	Tue-O-III-3: Image Registration	Tue-O-IV-3: Face Recognition I	Tue-O-I-3b: Gesture Analysis

Invited Talk 4: Image Representation and Retrieval Using Support Vector Machine and Fuzzy C-means Clustering Based Semantical Spaces
Prabir Bhattacharya, Concordia University

Invited Talk 5: Remaining Problems in Multiview Geometry
Richard Hartley, Australian National University

Wednesday Morning	**Convention Foyer**	**Hall B/C**	**Hall A**	**Room 401**	**Room 404/5**	**Room 406/7**
09:00~10:00		Plenary Session (Hall B/C) Chinese Character Recognition: Status and Prospects in Research and Applications *Ru-Wei Dai (Ju Wei Tai), Chinese Academy of Sciences*				
10:00~10:30	Coffee/Tea Served at Convention Foyer					
10:30~12:30	Wed-P-II-1: Advances in Basic Methodology II	Wed-O-I-1: Stereo and Motion II (Invited Talk 6)	Wed-O-II-1a: Pattern Detection	Wed-O-III-1: Medical Image Processing	Wed-O-IV-1: Biomedical Imaging II	Wed-O-II-1b: Pattern Matching Methods I
12:30~13:30	Lunch Break					

Invited Talk 6: Variations on Variational Principles for Computer Vision
Olivier Faugeras, National Research Institute in Computer Science and Control Theory (INRIA), France

Wednesday Afternoon	**Convention Foyer**	**Hall B/C**	**Hall A**	**Room 401**	**Room 404/5**	**Room 406/7**
13:30~15:10	Wed-P-II-2: Biometrics Wed-P-III-2: Image Processing	Wed-O-I-2: Object Detection and Recognition	Wed-O-II-2a: Pattern Classification I (Invited Talk 7)	Wed-O-III-2: Super-resolution and Restoration	Wed-O-IV-2: Gait, Body Pose and Writer Recognition	Wed-O-II-2b: Pattern Matching Methods II
15:10~15:40	Coffee/Tea Served at Convention Foyer					
15:40~17:40	Wed-P-III-3: Signal Processing Wed-P-IV-3: Sensors, Systems & Algorithms, Mobile Robots, Surveillance and Biometrics	Wed-O-I-3a: Tracking	Wed-O-II-3a: Pattern Classification II (Invited Talk 8)	Wed-O-I-3b: Video Analysis and Tracking	Wed-O-IV-3: Automation and Robotics	Wed-O-II-3b: Multimodal Recognition
18:30~20:30	Banquet					

Invited Talk 7: Some Pattern Recognition Challenges in Data-Intensive Astronomy
George Djorgovski, California Institute of Technology
Invited Talk 8: Invariants for 2D and 3D Pattern Recognition Problems - New Results for a Classical Problem
Hans Burkhardt, Albert-Ludwigs University

Thursday Morning	**Convention Foyer**	**Hall B/C**	**Hall A**	**Room 401**	**Room 404/5**	**Room 406/7**
09:00~10:00		Plenary Session (Hall B/C) What are Classifier Ensembles Good for Anyway and How Would You Know? *Lawrence O. Hall, University of South Florida*				
10:00~10:30	Coffee/Tea Served at Convention Foyer					
10:30~12:30	Thu-P-III-1: Audio and Video Processing Thu-P-IV-1: Biometrics	Thu-O-I-1a: Range Data Analysis	Thu-O-II-1a: Pattern Classification III	Thu-O-I-1b: Texture Analysis	Thu-O-IV-1: Smart Sensors (Invited Talk 9)	Thu-O-II-1b: Finger, Palm and Iris Recognition
12:30~13:30	Lunch Break					

Invited Talk 9: Challenges for Data Mining in Distributed Senor Networks
Virginio Cantoni, University of Pavia

Thursday Afternoon	**Convention Foyer**	**Hall B/C**	**Hall A**	**Room 401**	**Room 404/5**	**Room 406/7**
13:30~15:10	Thu-P-IV-2: Image and Video Processing Applications	Thu-O-I-2a: Image Segmentation I	Thu-O-II-2a: Information Retrieval	Thu-O-I-2b: Image and Feature Analysis	Thu-O-IV-2: Face Recognition II (Invited Talk 10)	Thu-O-II-2b: Pattern Representation and Transformation I
15:10~15:40	Coffee/Tea Served at Convention Foyer					
15:40~17:40		Thu-O-I-3a: Illumination and Feature Analysis	Thu-O-II-3a: Pattern Representation and Transformation II	Thu-O-I-3b: Image Segmentation II	Thu-O-IV-3: Surveillance	Thu-O-II-3b: Kernel Methods

Invited Talk 10: Information Fusion in Pattern Recognition Systems with Application to Biometrics
Josef Kittler, University of Surrey

Monday Morning, 21 August 2006

Plenary Session: Opening Ceremony and K. S. Fu Prize Lecture

Hall B/C, 08:45~10:00, Monday, 21/08/06

On Context, Modelling, Dimensionality and Small Sample Size in Pattern Recognition

Josef Kittler, University of Surrey

Chairs: Walter G. Kropatsch, and J. K. Aggarwal

Mon-O-I-1: 3D Reconstruction and Segmentation

Hall B/C, 10:30~12:30, Monday, 21/08/06

Chairs: Changming Sun, and Renaud Keriven

1. 2D and 3D Vegetation Resource Parameters Assessment Using Marked Point Processes
   Guillaume Perrin, Xavier Descombes, and Josiane Zerubia
2. Multiresolution Mesh Reconstruction from Noisy 3D Point Sets
   Wai-Shun Tong and Chi-Keung Tang
3. A Novel Volumetric Shape from Silhouette Algorithm Based on a Centripetal Pentahedron Model
   Xin Liu, Hongxun Yao, Guilin Yao, and Wen Gao
4. 3D Reconstruction from Uncalibrated Cameras and Uncalibrated Projectors from Shadows
   Keisuke Nishie and Jun Sato
5. Partitioning of 3D Meshes using Reeb Graphs
   S. Berretti, A. Del Bimbo, and P. Pala
6. Cluster Analysis and Priority Sorting in Huge Point Clouds for Building Reconstruction
   Wolfgang von Hansen, Eckart Michaelsen, and Ulrich Thönnessen

Mon-O-II-1: Character Recognition and Document Analysis

Hall A, 10:30~12:30, Monday, 21/08/06

Chairs: Henry Baird, and Conrad Sanderson

1. Low Resolution Character Recognition by Image Quality Evaluation
   Chunmei Liu, Chunheng Wang, and Ruwei Dai
2. Stroke Segmentation of Chinese Characters Using Markov Random Fields
   Jia Zeng and Zhi-Qiang Liu
3. Pixel-Accurate Representation and Evaluation of Page Segmentation in Document Images
   Faisal Shafait, Daniel Keysers, and Thomas Breuel
4. Logical Entity Recognition in Multi-style Document Page Images
   Song Mao, Zheng Xu, Tardi Tjahjadi, and George R. Thoma
5. Improve Handwritten Character Recognition Performance by Heteroscedastic Linear Discriminant Analysis

Hailong Liu and Xiaoqing Ding

6. Brush Writing Style Classification from Individual Chinese Characters
   Sam Wong, Howard Leung, and Horace Ip

Mon-O-III-1: Signal Coding and Compression

Room 401, 10:30~12:30, Monday, 21/08/06
Chairs: Gerd Maderlechner, and Patrick Wang

1. Machine Learning for Video Compression: Macroblock Mode Decision
   Christoph Lampert
2. LBT Based Low Complexity Image Compression Method
   Bo Chen, Lizhi Cheng, and Hongxia Wang
3. Onset Detection through Maximal Redundancy Detection
   Gert Van Dijck and Marc Van Hulle
4. ICA-Based Clustering for Resolving Permutation Ambiguity in Frequency-Domain Convolutive Source Separation
   Minje Kim and Seungjin Choi

Mon-O-IV-1: Biomedical Imaging I

Room 404/5, 10:30~12:30, Monday, 21/08/06
Chairs: Lucas Van Vliet, and Stina Svensson

1. A Computational Framework for Automatic Determination of Morphological Parameters of Proximal Femur from Intraoperative Fluoroscopic Images
   Xiao Dong and Guoyan Zheng
2. Interacting Active Rectangles for Estimation of Intervertebral Disk Orientation
   Amer Abufadel, Greg Slabaugh, Gozde Unal, Li Zhang, and Benjamin Odry
3. A Note on Feature Selection for Polyp Detection in CT Colonography
   Tarik Chowdhury, Ovidiu Ghita, Paul Whelan, and Abhilash Miranda
4. Automatic Surveying of Cutaneous Hemangiomas
   Sebastian Zambanini, Georg Langs, Robert Sablatnig, Peter Donath, and Harald Maier
5. Transforming Static CT in Gated 3D PET/CT Studies to Multiple Respiratory Phases
   M. Dawood, F. Büther, N. Lang, X. Jiang, and K.P. Schäfers
6. Markov Chain Monte Carlo Data Association for Merge and Split Detection in Tracking Protein Clusters
   Quan Wen, Jean Gao, and Kate Luby-Phelps

Mon-O-V-1: Gesture and Emotion Recognition

Room 406/7, 10:30~12:30, Monday, 21/08/06
Chairs: Tieniu Tan, and Kenneth Lam

1. Continuous Gesture Recognition Using a Sparse Bayesian Classifier
   Shu-Fai Wong and Roberto Cipolla
2. Fuzzy Point of View Combination for Contextual Shape Recognition: Application to On-line Graphic Gesture Recognition

François Bouteruche and Éric Anquetil

3. Robust Pose Invariant Facial Feature Detection and Tracking in Real-Time
   Zhiwei Zhu and Qiang Ji
4. Mandarin Emotional Speech Recognition Based on SVM and NN
   Tsang-Long Pao, Yu-Te Chen, Jun-Heng Yeh, and Pei-Jia Li
5. Visual Recognition of Similar Gestures
   Héctor Avilés-Arriaga, Enrique Sucar, and Carlos Mendoza

Mon-P-I-1: 3D and Stereo

Convention Foyer, 10:30~12:30, Monday, 21/08/06

1. Surface Reconstruction from Stereovision Data Using a 3-D MRF of Discrete Object Models
   Hotaka Takizawa and Shinji Yamamoto
2. Noise Variance Adaptive SEA for Motion Estimation: A Two-Stage Schema
   Wei-Gang Chen
3. A Three-Frame Approach to Constraint-Consistent Motion Estimation
   Zhaohui Sun
4. Robust Factorisation with Uncertainty Analysis
   Sami Brandt
5. Separating Rigid Motion for Continuous Shape Evolution
   Niels Chr. Overgaard and Jan Erik Solem
6. Symmetric Pixel-Group Based Stereo Matching for Occlusion Handling
   XiuZhi Zhou and Runsheng Wang
7. Automatic Estimation of 3D Transformations Using Skeletons for Object Alignment
   Tao Wang and Anup Basu
8. Real-Time Multi-Frame Analysis of Dominant Translation
   Alexander Sibiryakov and Miroslaw Bober
9. Combinatorial Surface Integration
   Roberto Fraile and Edwin Hancock
10. 3D Segmentation by Maximally Stable Volumes (MSVs)
    Michael Donoser and Horst Bischof
11. Effective and Generic Structure from Motion Using Angular Error
    Maxime Lhuillier
12. 3D Object Digitization: Volume and Surface Area Estimation
    Peer Stelldinger and Longin Jan Latecki
13. Detection of 3D-Flow by Characteristic of Convex-concave and Color
    Kimiya Aoki and Hiroyasu Koshimizu
14. Moving Obstacles Extraction with Stereo Global Motion Model
    Zhencheng Hu, Jia Wang, and Keiichi Uchimura
15. A New Structural Constraint and its Application in Wide Baseline Matching
    X. Lu and Roberto Manduchi
16. Real-Time 3D Articulated Pose Tracking Using Particle Filters Interacting through Belief Propagation
    Olivier Bernier

17. Spatial and Fourier Error Minimization for Motion Estimation and Segmentation
    Alexia Briassouli and Narendra Ahuja
18. Towards Robust Voxel-Coloring: Handling Camera Calibration Errors and Partial Emptiness of Surface Voxels
    Zeeshan Anwar and Frank Ferrie
19. An Information Theoretic Approach for Next Best View Planning in 3-D Reconstruction
    Stefan Wenhardt, Benjamin Deutsch, and Joachim Denzler
20. Exact View-Dependent Visual Hulls
    Gregor Miller and Adrian Hilton
21. Concurrent Stereo under Photometric Image Distortions
    Georgy Gimel'farb, Jiang Liu, John Morris, and Patrice Delmas
22. Cross Validation and Segment Support for Stereo Belief Propagation
    Murray Evans and James Ferryman
23. Modeling Spatial Relationships between 3D Objects
    Stefano Berretti and Alberto Del Bimbo
24. Stereo Correspondence Using Stripe Adjacency Graph
    Chang-Chang Wu and Zeng-Fu Wang
25. New Efficient Octree Construction from Multiple Object Silhouettes with Construction Quality Control
    Zen Chen and Hong-Long Chou
26. Augmenting Fast Stereo with Silhouette Constraints for Dynamic 3D Capture
    Stefaan De Roeck, Nico Cornelis, and Luc Van Gool
27. Depth Recovery from Motion Blurred Images
    Huei-Yung Lin and Chia-Hong Chang
28. Euclidean Reconstruction of Deformable Structure Using a Perspective Camera with Varying Intrinsic Parameters
    Xavier Lladó, Alessio Del Bue, and Lourdes Agapito
29. Efficient Monocular 3D Reconstruction from Segments for Visual Navigation in Structured Environments
    P.E. López-de-Teruel, A. Ruiz, and L. Fernández
30. Characteristic Line of Planar Homography Matrix and its Applications in Camera Calibration
    Jianhua Wang and Yuncai Liu
31. Reconstruction of Spheres Using Occluding Contours from Stereo Images
    Sudanthi Wijewickrema, Andrew Papliński, and Charles Esson
32. Concurrent Segmentation and Recognition with Shape-Driven Fast Marching Methods
    Abdulkerim Capar and Muhittin Gokmen
33. Differential-Algebraic Multiview Constraints
    Anders Heyden
34. Radon Space and Adaboost for Pose Estimation
    Patrick Etyngier, Nikos Paragios, Renaud Keriven, Yakup Genc, and Jean-Yves Audibert

Mon-P-V-1: Cognitive Approaches and Soft Computing

Convention Foyer, 10:30~12:30, Monday, 21/08/06

35. A Novel Vision Based Finger-writing Character Recognition System
    Lianwen Jin, Duanduan Yang, Li-Xin Zhen, and Jian-Cheng Huang
36. Hybrid Kernel Machine Ensemble for Imbalanced Data Sets
    Peng Li, Kap Luk Chan, and Wen Fang
37. Detecting Virulent Cells of Cryptococcus Neoformans Yeast: Clustering Experiments
    Jinshuo Liu, Peter van der Putten, Ferry Hagen, Xinmeng Chen, Teun Boekhout, and Fons Verbeek
38. Honeybees as an Intelligent Based Approach for 3D Reconstruction
    Gustavo Olague and Cesar Puente
39. Object Manipulation Using Fuzzy Logic and Geometric Algebra
    Eduardo Bayro Corrochano and Ruben Machucho-Cadena
40. An Interactive Trajectory Synthesizer to Study Outlier Patterns in Handwriting Recognition and Signature Verification
    Moussa Djioua, Christian O'Reilly, and Réjean Plamondon
41. Speech Animation Using Coupled Hidden Markov Models
    Lei Xie and Zhi-Qiang Liu
42. Nonlinear Eye Gaze Mapping Function Estimation via Support Vector Regression
    Zhiwei Zhu, Qiang Ji, and Kristin Bennett
43. Emotion Recognition Based on Joint Visual and Audio Cues
    Nicu Sebe, Ira Cohen, Theo Gevers, and Thomas Huang
44. An Intelligent Bulletin Board System with Real-Time Vision-Based Interaction Using Head Pose Estimation
    Cheng-Yu Chang, Pau-Choo Chung, Yu-Sheng Yeh, and Jar-Ferr Yang
45. An Efficient SVM Classifier for Lopsided Corpora
    XianFei Zhang, BiCheng Li, Wang Shi, and Luo Cheng
46. A Bimodal Face and Body Gesture Database for Automatic Analysis of Human Nonverbal Affective Behavior
    Hatice Gunes and Massimo Piccardi
47. An MOE Framework for Biclustering of Microarray Data
    Sushmita Mitra, Haider Banka, and Sankar K. Pal
48. A Kernel-Based Signal Localization Method for NIRS Brain-Computer Interfaces
    Haihong Zhang and Guan Cuntai
49. Type-2 Fuzzy Markov Random Fields to Handwritten Character Recognition
    Jia Zeng and Zhi-Qiang Liu
50. The Role of Featural and Configural Information in Face Classification: A Simulation of the Expertise Hypothesis
    Yafei Sun, Nicu Sebe, Theo Gevers, and Michel Mercera
51. GMM-Based Classification Method for Continuous Prediction in Brain-Computer Interface
    Xiaoyuan Zhu, Jiankang Wu, Yimin Cheng, and Yixiao Wang
52. Automatic Acquisition of Context Models and its Application to Video Surveillance

Oliver Brdiczka, Pong C. Yuen, Sofia Zaidenberg, Patrick Reignier, and James Crowley

53. A Captcha Mechanism by Exchanging Image Blocks
    Wen-Hung Liao
54. Adaptive Processing of Face Emotion Tree Structures
    Jia-Jun Wong and Siu-Yeung Cho
55. Classification of Team Behaviors in Sports Video Games
    Christian Thurau, Thomas Hettenhausen, and Christian Bauckhage
56. Continuous Optimization Based-on Boosting Gaussian Mixture Model
    Bin Li, Xian-ji Wang, Run-tian Zhong, and Zhen-quan Zhuang
57. Finding Rule Groups to Classify High Dimensional Gene Expression Datasets
    Jiyuan An and Yi-Ping Phoebe Chen
58. Multi-Objective Evolutionary Clustering Using Variable-Length Real Jumping Genes Genetic Algorithm
    Kazi Shah Nawaz Ripon, Chi-Ho Tsang, Sam Kwong, and Man-Ki Ip
59. Toward a Speaker-Independent Real-Time Affect Detection System
    Rongqing Huang and Changxue Ma
60. Tree Based Behavior Monitoring for Adaptive Fraud Detection
    Jianyun Xu, Andrew Sung, and Qingzhong Liu
61. Mining for Implications in Medial Data
    Cindy Bethel, Lawrence Hall, and Dmitry Goldgof
62. Association of Sound to Motion in Video Using Perceptual Organization
    Sunil Ravulapalli and Sudeep Sarkar
63. Recognizing Expressions in a New Database Containing Played and Natural Expressions
    James Skelley, Robert Fischer, Arup Sarma, and Bernd Heisele
64. Three Dimensional Short-Term Memory Image
    Satoru Morita
65. Simultaneous Gesture Segmentation and Recognition Based on Forward Spotting Accumulative HMMs
    Jinyoung Song and Daijin Kim
66. A Multi-Agent Based Interactive System towards Child's Emotion Performances Quantified through Affective Body Gestures
    Ravindra De Silva
67. Silhouette-Based Human Pose Estimation Using Reversible Jump Markov Chain Monte Carlo
    Shih-Shinh Huang, Li-Chen Fu, and Pei-Yung Hsiao

Plenary Session: J. K. Aggarwal Prize Lecture

Hall B/C, 12:30~13:30, Monday, 21/08/06
Chair: Brian Lovell

Monday Afternoon, 21 August 2006

Mon-O-I-2: Image Analysis Applications

Hall B/C, 13:30~15:10, Monday, 21/08/06
Chairs: David Zhang, and Yuichi Ohta

1. Correlation Based Image Defect Detection
   Toshiyuki Amano
2. Continuous-Discrete Filtering for Cardiac Kinematics Estimation under Spatio-Temporal Biomechanical Constrains
   Shan Tong, Albert Sinusas, and Pengcheng Shi
3. Automatic Segmentation of the Knee Bones Using 3D Active Shape Models
   Jurgen Fripp, Stuart Crozier, Simon Warfield, and Sébastien Ourselin
4. Modelling Crowd Scenes for Event Detection
   Ernesto Andrade, Scott Blunsden, and Robert Fisher
5. Probabilistic Image-Based Rendering with Gaussian Mixture Model
   Wenfeng Li and Baoxin Li

Mon-O-II-2: Clustering Algorithms I

Hall A, 13:30~15:10, Monday, 21/08/06
Chairs: Ana Fred, and Fabio Roli

1. A K-means-Based Algorithm for Projective Clustering
   Mohamed Bouguessa, Shengrui Wang, and Qingshan Jiang
2. A Cluster Validity Approach Based on Nearest-Neighbor Resampling
   Ulrich Möller and Dörte Radke
3. An Adaptive Classification Algorithm Using Robust Incremental Clustering
   Herward Prehn and Gerald Sommer
4. Improved Clustering Algorithm Based on Calculus of Variation
   Benson Lam and Hong Yan

Mon-O-III-2: Document Image Enhancement

Room 401, 13:30~15:10, Monday, 21/08/06
Chairs: Hirobumi Nishida, and Guy Lorette

1. Document Image Binarization Based on Stroke Enhancement
   Yuanping Zhu, Chunheng Wang, and Ruwei Dai
2. Seeing Around Occluding Objects
   Scott McCloskey, Michael Langer, and Kaleem Siddiqi
3. Non-linear Wiener filter in Reproducing Kernel Hilbert Space
   Yoshikazu Washizawa and Yukihiko Yamashita
4. Document Flattening through Grid Modeling and Regularization
   Shijian Lu and Chew Lim Tan

Mon-O-IV-2: Fingerprints

Room 404/5, 13:30~15:10, Monday, 21/08/06
Chairs: Nalini Ratha, and Alex Kot

1. An Efficient Algorithm for Fingerprint Matching
   Chengfeng Wang, Marina Gavrilova, Yuan Luo, and Jon Rokne
2. Fingerprint Indexing Based on Symmetrical Measurement
   Jun Li, Wei-Yun Yau, and Han Wang
3. Fingerprint Retrieval by Complex Filter Responses
   Manhua Liu, Xudong Jiang, and Alex Kot
4. Fingerprint Matching Using Minutia Polygons
   Xuefeng Liang, Tetsuo Asano, and Arijit Bishnu
5. Fingerprint Reference Point Detection Based on Local Axial Symmetry
   Tong Liu, Chao Zhang, and Pengwei Hao

Mon-O-V-2: Human Computer Interaction

Room 406/7, 13:30~15:10, Monday, 21/08/06
Chairs: Rama Chellappa, and P. C. Yuen

Invited Paper

- A Computational Model of Social Signaling
  Alex Pentland

1. An Improved Semi-Supervised Support Vector Machine Based Translation Algorithm for BCI Systems
   Jianzhao Qin and Yuanqing Li
2. Bayesian Imitation of Human Behavior in Interactive Computer Games
   Bernard Gorman, Christian Thurau, Christian Bauckhage, and Mark Humphrys
3. Analyzing Facial Expressions Using Intensity-Variant 3D Data for Human Computer Interaction
   Lijun Yin, Xiaozhou Wei, Peter Longo, and Abhinesh Bhuvanesh

Mon-P-I-2: Face and Human Analysis

Convention Foyer, 13:30~15:10, Monday, 21/08/06

1. Automatic Segmentation of the Papilla in a Fundus Image Based on the C-V Model and Shape Restraint
   Yandong Tang, Xiaomao Li, Axel von Freyberg, and Gert Goch
2. A Compact Model of Human Postures Extracting Common Motion from Individual Samples
   Rui Ishiyama, Hiroo Ikeda, and Shizuo Sakamoto
3. Learning to Imitate Human Movement to Adapt to Environmental Changes
   Stephan Al-Zubi and Gerald Sommer
4. Recognizing Rotated Faces from Two Orthogonal Views in Mugshot Databases
   Xiaozheng Zhang, Yongsheng Gao, and Bai-ling Zhang

5. Real-Time Camera Tracking Using Known 3D Models and a Particle Filter
   Mark Pupilli and Andrew Calway
6. Relighting of Facial Video
   Peter Csakany and Adrian Hilton
7. Binocular Hand Tracking and Reconstruction Based on 2D Shape Matching
   Antonis Argyros and Manolis Lourakis
8. Using Evolution to Learn How to Perform Interest Point Detection
   Leonardo Trujillo and Gustavo Olague
9. An Illumination Insensitive Representation for Face Verification in the Frequency Domain
   Eduardo Garea Llano, Josef Kittler, Heydi Mendez Vazquez, and Kieron Messer
10. Real Time Tracking for 3D Realistic Lip Animation
    Brice Beaumesnil and Franck Luthon
11. Background Subtraction Based on a Robust Consensus Method
    Hanzi Wang and David Suter
12. A Hybrid Approach to Face Detection under Unconstrained Environments
    Abdenour Hadid and Matti Pietikäinen
13. A Simple Coupled Statistical Model for 3D Face Shape Recovery
    Mario Castelán and Edwin Hancock
14. A Facial Statistical Model from Complex Numbers
    Mario Castelán and Edwin Hancock
15. A Unified System for Segmentation and Tracking of Face and Hands in Sign Language Recognition
    George Awad, Junwei Han, and Alistair Sutherland
16. Behavior Modeling and Recognition Based on Space-Time Image Features
    Heping Li, Zhanyi Hu, Yihong Wu, and Fuchao Wu
17. Analysis of Overlapping Faces for Constructing Paper-made Objects from Sketches
    Hiroshi Shimanuki, Jien Kato, and Toyohide Watanabe
18. Action Recognition in Broadcast Tennis Video
    Guangyu Zhu, Changsheng Xu, Qingming Huang, and Wen Gao
19. Estimating the Location of Illuminants in Realist Master Paintings: Computer Image Analysis Addresses a Debate in Art History of the Baroque
    David Stork
20. Biologically Inspired Hierarchical Model for Feature Extraction and Localization
    Liang Wu, Predrag Neskovic, and Leon N. Cooper
21. HMM-Based Human Action Recognition Using Multiview Image Sequences
    Mohiuddin Ahmad and Seong-Whan Lee
22. Variational Multigrid for Fast 3D Interpretation of Image Sequences
    Jong-Sung Kim and Ki-Sang Hong
23. Automatic Segmentation of Lung Fields from Radiographic Images of SARS Patients Using a New Graph Cuts Algorithm
    Shifeng Chen, Liangliang Cao, Jianzhuang Liu, and Xiaoou Tang
24. A Real-Time Facial Expression Recognition Using the STAAM
    Jaewon Sung, Sangjae Lee, and Daijin Kim

25. A Maximum A Posteriori Probability Viterbi Data Association Algorithm for Ball Tracking in Sports Video
    Fei Yan, William Christmas, and Josef Kittler
26. Facial Feature Tracking Using a Multi-State Hierarchical Shape Model under Varying Face Pose and Facial Expression
    Yan Tong, Yang Wang, Zhiwei Zhu, and Qiang Ji
27. Face Recognition from Video Using Active Appearance Model Segmentation
    Nathan Faggian, Andrew Paplinski, and Tat-Jun Chin
28. Audio-Visual Speaker Localization Using Graphical Models
    Akash Kushal, Mandar Rahurkar, Li Fei-Fei, Jean Ponce, and Thomas Huang
29. Improving Human Activity Detection by Combining Multi-Dimensional Motion Descriptors with Boosting
    Takehito Ogata, William Christmas, Josef Kittler, and Seiji Ishikawa
30. A Stereo and Color-Based Method for Face Pose Estimation and Facial Feature Extraction
    Robert Niese, Ayoub Al-Hamadi, and Bernd Michaelis
31. Performance Driven Facial Animation Using Illumination Independent Appearance-Based Tracking
    José Buenaposada, Enrique Muñoz, and Luis Baumela
32. Multiview Facial Feature Tracking with a Multi-modal Probabilistic Model
    Yan Tong and Qiang Ji
33. Improving Face Recognition by Online Image Alignment
    Peng Wang, Lam Cam Tran, and Qiang Ji
34. Automatic Detection of Bronchial Dilatation in HRCT Lung Images
    Mithun Prasad, Arcot Sowmya, and Peter Wilson
35. Robust Recursive Learning for Foreground Region Detection in Videos with Quasi-Stationary Backgrounds
    Alireza Tavakkoli, Mircea Nicolescu, and George Bebis
36. A New Method of Object Segmentation in the Basketball Videos
    LifangWu, Xianglong Meng, Xun Liu, and Shiju Chen
37. A New Image Segmentation Method for Removing Background of Object Movie by Learning Shape Priors
    Cheng-Hung Ko, Yu-Pao Tsai, Zen-Chung Shih, and Yi-Ping Hung
38. Skin Color Detection through Estimation and Conversion of Illuminant Color Using Sclera Region of Eye under Varying Illumination
    Hyun-Chul Do, Ju-Yeon You, and Sung-Il Chien
39. Gesture Segmentation from a Video Sequence Using Greedy Similarity Measure
    Qiulei Dong, Yihong Wu, and Zhanyi Hu
40. Human Model for People Detection in Dynamic Scenes
    Sebastien Harasse, Laurent Bonnaud, and Michel Desvignes
41. Dynamic Foveation Model for Video Compression
    Gaetano Somma
42. Vessel Segmentation in 2D-Projection Images Using a Supervised Linear Hysteresis Classifier
    Alexandru Paul Condurache and Til Aach

43. Activity Recognition from Silhouettes Using Linear Systems and Model (In)validation Techniques
    Roberto Lublinerman, Necmiye Özay, Dimitrios Zarpalas, and Octavia Camps
44. Face Recognition Using Most Discriminative Local and Global Features
    Yong Gao, Yangsheng Wang, Xuetao Feng, and Xiaoxu Zhou
45. Segmentation of Human Body Parts Using Deformable Triangulation
    Chih-Chiang Chen, Jun-Wei Hsieh, Yung-Tai Hsu, and Chuan-Yu Huang
46. Estimation of Ball Route under Overlapping with Players and Lines in Soccer Video Image Sequence
    Takumi Shimawaki, Takuro Sakiyama, Jun Miura, and Yoshiaki Shirai
47. Adaptive Contour Construction for Face Regions
    Jinfeng Yang and Renbiao Wu
48. Image Classification from Generalized Image Distance Features: Application to Detection of Interstitial Disease in Chest Radiographs
    Yulia Arzhaeva, Bram van Ginneken, and David Tax
49. Atlas-Based 3D-Shape Reconstruction from X-Ray Images
    Hans Lamecker, Thomas Wenckebach, and Hans-Christian Hege
50. Detection of Fence Climbing from Monocular Video
    Elden Yu and J.K. Aggarwal
51. Semantic Understanding of Continued and Recursive Human Activities
    M.S. Ryoo and J.K. Aggarwal
52. Efficient Measurement of Eye Blinking under Various Illumination Conditions for Drowsiness Detection Systems
    Ilkwon Park, Jung-Ho Ahn, and Hyeran Byun
53. Finding Highly Frequented Paths in Video Sequences
    Dietmar Bauer, Norbert Brändle, Stefan Seer, and Roman Pflugfelder
54. An Illumination Independent Eye Detection Algorithm
    Xingming Zhang and Huangyuan Zhan
55. Detection of Spiral Waves in Video
    Valentina Korzhova, Dmitry Goldgof, and Grigori Sisoev
56. A Machine Learning Approach for Locating Boundaries of Liver Tumors in CT Images
    Yuanzhong Li, Shoji Hara, and Kazuo Shimura
57. Face Verification Using Gabor Wavelets and AdaBoost
    Mian Zhou and Hong Wei
58. Face Recognition Using Patch-Based Spin Images
    Yang Li, William Smith, and Edwin Hancock
59. Event Recognition with Fragmented Object Tracks
    Michael Chan, Anthony Hoogs, Zhaohui Sun, John Schmiederer, Rahul Bhotika, and Gianfranco Doretto
60. Active Feature Models
    Georg Langs, Philipp Peloschek, René Donner, Michael Reiter, and Horst Bischof
61. 3D and Infrared Face Reconstruction from RGB Data Using Canonical Correlation Analysis

Michael Reiter, René Donner, Georg Langs, and Horst Bischof

62. Bilateral Two Dimensional Linear Discriminant Analysis for Stereo Face Recognition
    Jian-Gang Wang, Hui Kong, and Wei-Yun Yau
63. Activity Discovery from Surveillance Videos
    Prithwijit Guha, Amitabha Mukerjee, K.S. Venkatesh, and Pabitra Mitra
64. A Robust and Accurate Method for Pupil Features Extraction
    Zhifei Xu and Pengfei Shi
65. Detection-Assisted Initialization, Adaptation and Fusion of Body Region Trackers for Robust Multiperson Tracking
    Keni Bernardin, Alexander Elbs, and Rainer Stiefelhagen
66. Facial Components Detection with Boosting and Geometric Constraints
    Tiesheng Wang and Pengfei Shi
67. Part Based Human Tracking in a Multiple Cues Fusion Framework
    Qi Zhao, Jinman Kang, Hai Tao, and Wei Hua
68. A Verification Method for Viewpoint Invariant Sign Language Recognition
    Qi Wang, Xilin Chen, Chunli Wang, and Wen Gao
69. Data Fusion for 3D Gestures Tracking Using a Camera Mounted on a Robot
    Paulo Menezes, Frédéric Lerasle, and Jorge Dias
70. Coupled Shape Model Segmentation of Pig Carcasses
    Mads Fogtmann Hansen, Rasmus Larsen, Bjarne Ersbøll, and Lars Bager Christensen
71. Action Spaces for Efficient Bayesian Tracking of Human Motion
    Ignasi Rius, Javier Varona, Jordi Gonzàlez, and Juan Villanueva
72. Vertebra Edge Detection Using Polar Signature
    M. Benjelloun, H. Téllez, and S. Mahmoudi
73. Robust Model Driven Matching Method for Face Analysis with Multi Image Photogrammetry
    Gerhard Schrotter and Li Zhang
74. Supervised Learning for Guiding Hierarchy Construction: Application to Osteo-Articular Medical Images Database
    Karim Yousfi, Christophe Ambroise, Jean Pierre Cocquerez, and Jonathan Chevelu
75. A Hybrid Resampling Framework for Facial Shape Alignment
    William Ivaldi, Maurice Milgram, and Stéphane Gentric
76. Video Foreground Segmentation Based on Sequential Feature Clustering
    Mei Han, Wei Xu, and Yihong Gong

Mon-O-I-3: Face Recognition

Hall B/C, 15:40~17:40, Monday, 21/08/06
Chairs: Rama Chellappa, and Wen Gao

1. Nonlinear Shape and Appearance Models for Facial Expression Analysis and Synthesis
    Chan-Su Lee and Ahmed Elgammal

2. Face Representation by Using Non-tensor Product Wavelets
   Xinge You, Dan Zhang, Qiuhui Chen, Patrick Wang, and Yuan Yan Tang
3. Fast, Illumination Insensitive Face Detection Based on Multilinear Techniques and Curvature Features
   Christian Bauckhage and Thomas Käster
4. Face Set Classification Using Maximally Probable Mutual Modes
   Ognjen Arandjelović and Roberto Cipolla
5. Face Recognition Robust to Head Pose from One Sample Image
   Ting Shan, Brian Lovell, and Shaokang Chen
6. Boosting in Random Subspaces for Face Recognition
   Yong Gao and Yangsheng Wang

Mon-O-II-3: Clustering Algorithms II

Hall A, 15:40~17:40, Monday, 21/08/06
Chairs: Anil Jain, and Baoxin Li

1. Unsupervised Discriminant Projection Analysis for Feature Extraction
   Jian Yang, David Zhang, Zhong Jin, and Jing-yu Yang
2. Scalable non-linear Support Vector Machine Using hierarchical clustering
   S. Asharaf, S.K. Shevade, and M. Murty
3. l-DBSCAN: A Fast Hybrid Density Based Clustering Method
   P. Viswanath and Rajwala Pinkesh
4. Learning Wormholes for Sparsely Labelled Clustering
   Eng-Jon Ong and Richard Bowden
5. Nonlinear Manifold Clustering by Dimensionality
   Wenbo Cao and Robert Haralick
6. Learning Pairwise Similarity for Data Clustering
   Ana Fred and Anil Jain

Mon-O-III-3: Visualization and Restoration

Room 401, 15:40~17:40, Monday, 21/08/06
Chairs: Kazunori Umeda, and In So Kweon

1. Space-time Analysis of Spherical Projection Image
   Shintaro Ono, Takeshi Mikami, Hiroshi Kawasaki, and Katsushi Ikeuchi
2. Context Enhancement of Nighttime Surveillance by Image Fusion
   Yinghao Cai, Kaiqi Huang, Tieniu Tan, and Yunhong Wang
3. View Dependent Enhancement of Dynamic Range of Video
   Matti Niskanen
4. Scene Eecovery from Many Randomly Distributed Single Pixel Cameras
   R. Fisher
5. Multi-layer Mosaics in the Presence of Motion and Depth Effects
   Changki Min, Qian Yu, and Gérard Medioni
6. Tone Mapping for HDR Image Using Optimization -- A New Closed Form Solution
   Guoping Qiu, Jian Guan, Jian Duan, and Min Chen

Mon-O-IV-3: Range Imaging and Remote Sensing Applications

Room 404/5, 15:40~17:40, Monday, 21/08/06
Chairs: Maria Petrou, and Petra Perner

1. Use of Viewpoint Information for Example Selection in CBIR
   Kanji Tanaka, Mitsuru Hirayama, Nobuhiro Okada, and Eiji Kondo
2. Boosted Band Ratio Feature Selection for Hyperspectral Image Classification
   Zhouyu Fu, Terry Caelli, Nianjun Liu, and Antonio Robles-Kelly
3. Robust 3D Head Tracking Using Camera Pose Estimation
   Shay Ohayon and Ehud Rivlin
4. Unsupervised Decomposition of Mixed Pixels Using the Maximum Entropy Principle
   Lidan Miao, Hairong Qi, and Harold Szu
5. 3D Acquisition System Using Uncalibrated Line-Laser Projector
   Hiroshi Kawasaki, Ryo Furukawa, and Yasuaki Nakamura
6. An Efficient Implementation Technique of Bidirectional Matching for Real-Time Trinocular Stereo Vision
   Toshio Ueshiba

Mon-O-V-3: Semantic Analysis for Content Retrieval

Room 406/7, 15:40~17:40, Monday, 21/08/06
Chairs: Thomas Huang, and Horace Ip

Invited Paper

- Kernel Machines for Computer Graphics
  Bernhard Schölkopf

1. Word Completion with Latent Semantic Analysis
   Tristan Miller and Elisabeth Wolf
2. Lexicon Based Browsers for Searching in News Video Archives
   M. Worring, C.G.M. Snoek, D.C. Koelma, G.P. Nguyen, and O. de Rooij
3. Semantic Analysis on Medical Images: A Case Study
   Da Qi, Erika Denton, and Reyer Zwiggelaar

Mon-P-I-3: Computer Vision

Convention Foyer, 15:40~17:40, Monday, 21/08/06

1. Weighted Bayesian Networks for Visual Tracking
   Yue Zhou and Thomas Huang
2. Fundamental Matrix and Slightly Overlapping Views
   Roman Pflugfelder and Horst Bischof
3. Identification of Degraded Traffic Sign Symbols by a Generative Learning Method

Hiroyuki Ishida, Tomokazu Takahashi, Ichiro Ide, Yoshito Mekada, and Hiroshi Murase

4. A Novel Linear Approach to Camera Calibration from Sphere Images
   Xianghua Ying and Hongbin Zha
5. Using Sphere Images for Calibrating Fisheye Cameras under the Unified Imaging Model of the Central Catadioptric and Fisheye Cameras
   Xianghua Ying and Hongbin Zha
6. Reflectance from Surfaces with Layers of Variable Roughness
   Hossein Ragheb and Edwin Hancock
7. Robust Projective Reconstruction with Missing Information
   Mingxing Hu, Karen McMenemy, Stuart Ferguson, Gordon Dodds, and Baozong Yuan
8. Real-time Camera Pose and Focal Length Estimation
   Sumit Jain and Ulrich Neumann
9. Object Tracking with Dynamic Template Update and Occlusion Detection
   Longin Jan Latecki and Roland Miezianko
10. Automatic Pose Recovery for High-Quality Textures Generation
    Jinhui Hu, Suya You, and Ulrich Neumann
11. DTM Generation from LIDAR Data Using Skewness Balancing
    Marc Bartels, Hong Wei, and David Mason
12. Omnidirectional Vision and Invariant Theory for Robot Navigation Using Conformal Geometric Algebra
    Carlos López-Franco and Eduardo Bayro-Corrochano
13. An Oriented-Contour Point Based Voting Algorithm for Vehicle Type Classification
    Pablo Negri, Xavier Clady, Maurice Milgram, and Raphael Poulenard
14. Empirical Study of Multi-scale Filter Banks for Object Categorization
    Manuel J. Marin Jimenez and Nicolas Perez de la Blanca
15. Chaining Planar Homographies for Fast and Reliable 3D Plane Tracking
    Manolis Lourakis and Antonis Argyros
16. Using Specularities to Recover Multiple Light Sources in the Presence of Texture
    Pascal Lagger and Pascal Fua
17. A Coarse-to-Fine Strategy for Vehicle Motion Trajectory Clustering
    Xi Li, Weiming Hu, and Wei Hu
18. Self-Calibration Using Constant Camera Motion
    Xiaochun Cao, Jiangjian Xiao, and Hassan Foroosh
19. Motion Segmentation by Multibody Trifocal Tensor Using Line Correspondence
    Jing Zhang, Fanhuai Shi, and Yuncai Liu
20. Planning of Multiple Camera Arrangement for Object Recognition in Parametric Eigenspace
    Tomokazu Takahashi, Osanori Matsugano, Ichro Ide, Yoshito Mekada, and Hiroshi Murase
21. Camera Calibration with a Transparent Calibration Tool Using Color Filters: Application to Stereo Camera Calibration for a Distant Object
    Yasuhiro Katayama
22. Object Contour Detection Using Spatio-temporal Self-similarity

Hidenori Takeshima, Takashi Ida, and Toshimitsu Kaneko
23. Recognizing Interaction Activities Using Dynamic Bayesian Network
Youtian Du, Feng Chen, Wenli Xu, and Yongbin Li
24. New RHT-Based Ellipsoid Recovery Method
Chunguang Cao and Timothy Newman
25. Detection of Moving Cast Shadows Using Image Orthogonal Transform
Wei Zhang, Xiang Zhong Fang, and Yi Xu
26. Five-Point Motion Estimation Made Easy
Hongdong Li and Richard Hartley
27. Augmented Lagrangian Approach for Projective Reconstruction from Multiple Views
F. Mai and Y.S. Hung
28. Multiple Objects Tracking with Multiple Hypotheses Graph Representation
Alex Yong Sang Chia, Weimin Huang, and Liyuan Li
29. Restoring Warped Document Images Using Shape-from-Shading and Surface Interpolation
Li Zhang and Chew Lim Tan
30. Camera Calibration Using Circle and Right Angles
H. Zhong, F. Mai, and Y.S. Hung
31. Simultaneous Classification and Visual Word Selection Using Entropy-Based Minimum Description Length
Sungho Kim and In So Kweon
32. Defect Detection in Low-Contrast Glass Substrates Using Anisotropic Diffusion
Shin-Min Chao, Du-Ming Tsai, Yan-Hsin Tseng, and Yuan-Ruei Jhang
33. Integrating Differential Evolution and Condensation Algorithms for License Plate Tracking
İlhan Kubilay Yalçın and Muhittin Gokmen
34. Boosted Gabor Features Applied to Vehicle Detection
Hong Cheng, Nanning Zheng, Chong Sun, Huub van de Wetering
35. Unsupervised Segmentation Using Gabor Wavelets and Statistical Features in LIDAR Data Analysis
Hong Wei and Marc Bartels
36. A Clustering Based Color Model and Fast Algorithm for Object Tracking
Peihua Li
37. Radial Distortion Refinement by Inverse Mapping-Based Extrapolation
Ho Gi Jung, Yun Hee Lee, Pal Joo Yoon, and Jaihie Kim
38. Estimation of the Fundamental Matrix Based on EV Model
Tingbo Hou, Feng Zhu, and Zelin Shi
39. Detection and Recognition of Moving Objects by Using Motion Invariants
Satoshi Ito and Nobuyuki Otsu
40. Nighttime Vehicle Detection for Driver Assistance and Autonomous Vehicles
Yen-Lin Chen, Yuan-Hsin Chen, Chao-Jung Chen, and Bing-Fei Wu
41. Robot Navigation by Panoramic Vision and Attention Guided Features
Alexandre Bur, Adriana Tapus, Nabil Ouerhani, Roland Siegwart, and Heinz Hügli

42. Reliability Index of Optical Flow that Considers Error Margin of Matches and Stabilizes Camera Movement Estimation
    Eisuke Adachi, Takio Kurita, and Nobuyuki Otsu
43. An Integrated Monte Carlo Data Association Framework for Multi-Object Tracking
    Jianru Xue, Nanning Zheng, and Xiaopin Zhong
44. Estimating Intrinsic Parameters of Cameras Using Two Arbitrary Rectangles
    Jun-Sik Kim and In So Kweon
45. Generic Real-Time Tracking Method on Semi-Dynamic Scenes
    François Cayouette and Jeremy R. Cooperstock
46. Reconstruction from Plane Mirror Reflection
    H. Zhong, W.F. Sze, and Y.S. Hung
47. Box-like Superquadric Recovery in Range Images by FUsing Region and Boundary Information
    Dimitrios Kosmopoulos and Dimitrios Kosmopoulos
48. On-Line Machine Vision System for Detect Split Defects in Sheet-Metal Forming Processes
    Fernando Gayubo, José L. González, Eusebio de la Fuente, Félix Miguel, and José R. Perán
49. Cast Shadow Removal with GMM for Surface Reflectance Component
    Zhou Liu, Kaiqi Huang, Tieniu Tan, and Liangsheng Wang
50. Improving Shape from Focus Using Defocus Information
    K.S. Pradeep and A.N. Rajagopalan
51. Browsing Graphics without Prior Knowledge
    Daniel Zuwala and Jan Rendek
52. A Pixel-wise Object Tracking Algorithm with Target and Background Sample
    Chunsheng Hua, Haiyuan Wu, Qian Chen, and Toshikazu Wada
53. Shadow Detection by Integrating Multiple Features
    Kuo-Hua Lo and Mau-Tsuen Yang
54. Real-Time Object Tracking without Feature Extraction
    Takayuki Moritani, Shinsaku Hiura, and Kosuke Sato
55. Local Representation of 3D Free-Form Contours for Pose Estimation
    Marco Chavarria and Gerald Sommer
56. Recognition and Segmentation of Scene Content Using Region-Based Classification
    John Kaufhold, Roderic Collins, Anthony Hoogs, and Pascale Rondot
57. A Combined Bayesian Markovian Approach for Behavioural Recognition
    Nicholas Carter, David Young, and James Ferryman
58. Detection over Viewpoint via the Object Class Invariant
    Matthew Toews and Tal Arbel
59. Identifying Centers of Circulating and Spiraling Flow Patterns
    Chi Lap Yip and Ka Yan Wong
60. Object and Scene Classification: What Provides Us a Supervised Approach?
    Anna Bosch, Xavier Muñoz, Arnau Oliver, and Robert Martí
61. A Hierarchical Object Recognition System Based on Multi-scale Principal Curvature Regions
    Wei Zhang, Hongli Deng, Thomas G. Dietterich, and Eric N. Mortensen

62. Hierarchical, Generic to Specific Multi-class Object Recognition
Arnab Dhua and Florin Cutzu
63. Measurement Function Design for Visual Tracking Applications
Andrew Smith and Brian Lovell
64. Perspective Pose Estimation from Uncertain Omnidirectional Image Data
Christian Gebken, Antti Tolvanen, Christian Perwass, and Gerald Sommer
65. Efficient, Simultaneous Detection of Multiple Object Classes
Philipp Zehnder, Esther Koller-Meier, and Luc Van Gool
66. Adaptive, Region-Based, Layered Background Model for Target Tracking
Meng Wan and Jean-Yves Hervé
67. Optimal Cascade Construction for Detection Using 3D Models
Hon-Keat Pong and Tat-Jen Cham
68. Specular Free Spectral Imaging Using Orthogonal Subspace Projection
Zhouyu Fu, Robby Tan, and Terry Caelli
69. A Unified Camera Calibration Using Geometry and Blur of Feature Points
Masashi Baba, Masayuki Mukunoki, and Naoki Asada
70. Object Detection in Video via Particle Filters
Jacek Czyz
71. License Plate Extraction in Low Resolution Video
Hsien-Huang Wu, Hung-Hsiang Chen, Ruei-Jan Wu, and Day-Fann Shen
72. A Real-Time Multiple-Vehicle Detection and Tracking System with Prior Occlusion Detection and Resolution, and Prior Queue Detection and Resolution
Shin-Ping Lin, Yuan-Hsin Chen, and Bing-Fei Wu
73. Simple Shadow Removal
Clement Fredembach and Graham Finlayson
74. FocUsing on Target's Features while Tracking
Christian Micheloni and Gian Luca Foresti
75. Generic Detection of Multi-Part Objects
Jean-François Bernier and Robert Bergevin
76. Object Tracking Using Globally Coordinated Nonlinear Manifolds
Che-Bin Liu, Ruei-Sung Lin, Ming-Hsuan Yang, Narendra Ahuja, and Stephen Levinson
77. Adaptative Markov Random Fields for Omnidirectional Vision
Cédric Demonceaux and Pascal Vasseur
78. Geodesic Curves for Analysis of Continuous Implicit Shapes
Jan Erik Solem

Tuesday Morning, 22 August 2006

Plenary Session:

Hall B/C, 09:00~10:00, Tuesday, 22/08/06
Fingerprints: Proving Ground for Pattern Recognition
Anil K. Jain, Michigan State University, USA
Chair: Patrick Wang

Tue-O-I-1: Geometry and Calibration

Hall B/C, 10:30~12:30, Tuesday, 22/08/06
Chairs: Luc Van Gool, and In So Kweon

1. Camera Calibration from Two Shadow Trajectories
   Fei Lu, Xiaochun Cao, Yuping Shen, and Hassan Foroosh
2. Optimal Estimation of Perspective Camera Pose
   Carl Olsson, Fredrik Kahl, and Magnus Oskarsson
3. Plane Rectification Using a Circle and Points from a Single View
   Feng Guo
4. Camera Motion Quantification and Alignment
   Xiaochun Cao, Jiangjian Xiao, and Hassan Foroosh
5. Rectification with Intersecting Optical Axes for Stereoscopic Visualization
   Jin Zhou and Baoxin Li
6. Fundamental Matrix Estimation via TIP - Transfer of Invariant Parameters
   Frank Riggi, Matthew Toews and Tal Arbel

Tue-O-II-1: Learning Algorithms I

Hall A, 10:30~12:30, Tuesday, 22/08/06
Chairs: Robert Duin, and Petra Perner

1. Online Learning of Discriminative Patterns from Unlimited Sequences of Candidates
   Ilkka Autio and J.T. Lindgren
2. Correspondence-free Associative Learning
   Erik Jonsson and Michael Felberg
3. Robust Nonlinear Dimensionality Reduction by Manifold Learning
   Haifeng Chen, Guofei Jiang, and Kenji Yoshihira
4. EBEM: An Entropy-Based EM Algorithm for Gaussian Mixture Models
   Antonio Peñalver Benavent, Francisco Escolano Ruiz, and Juan Sáez Martínez
5. Regularized Locality Preserving Learning of Pre-Image Problem in Kernel Principal Component Analysis
   Wei-Shi Zheng and Jian-huang Lai
6. A Maximum Margin Discriminative Learning Algorithm for Temporal Signals
   Wenjie Xu, Jiankang Wu, and Zhiyong Huang

Tue-O-III-1: Speech Processing and Understanding

Room 401, 10:30~12:30, Tuesday, 22/08/06
Chairs: Andreas Dengel, and Andrew Bradley

Invited Paper

- Computers in the Human Interaction Loop (CHIL) or: How to Overcome Techno-Clutter
  Alexander Waibel

1. Robust Local Scoring Function for Text-Independent Speaker Verification
   Ming Liu, Thomas Huang, and Zhengyou Zhang
2. Audio Segmentation and Speaker Localization in Meeting Videos
   Himanshu Vajaria, Tanmoy Islam, Sudeep Sarkar, Ravi Sankar, and Ranga Kasturi
3. Sociometry Based Multiparty Audio Recordings Summarization
   Alessandro Vinciarelli
4. A Hybrid HMM-Based Speech Recognizer Using Kernel-Based Discriminants as Acoustic Models
   Edin Andelić, Martin Schafföner, Marcel Katz, Sven Krüger, and Andreas Wendemuth

Tue-O-IV-1: Face, Body & Expression Recognition, Pose Detection

Room 404/5, 10:30~12:30, Tuesday, 22/08/06
Chairs: Bir Bhanu, and Thomas Huang

1. Robust Head Pose Estimation Using LGBP
   Bingpeng Ma, Wenchao Zhang, Shiguang Shan, Xilin Chen, and Wen Gao
2. Modification of the AdaBoost-Based Detector for Partially Occluded Faces
   Jie Chen, Shiguang Shan, Shengye Yang, Xilin Chen, and Wen Gao
3. Efficient Facial Component Extraction for Detection and Recognition
   Jing-Wein Wang
4. Automatic Physiognomic Analysis by Classifying Facial Component Features
   Hee-Deok Yang and Seong-Whan Lee
5. Facial Expression Recognition Using Auto-Regressive Models
   Fadi Dornaika and Franck Davoine
6. 2D Cascaded AdaBoost for Eye Localization
   Zhiheng Niu, Shiguang Shan, Shengye Yan, Xilin Chen, and Wen Gao

Tue-O-V-1: Human Action Analysis and Recognition

Room 406/7, 10:30~12:30, Tuesday, 22/08/06
Chairs: Fisher Robert, and Wen Gao

1. A "No Panacea Theorem" for Multiple Classifier Combination
   Roland Hu and R. Damper

2. Action Recognition in a Wearable Assistance System
   Marc Hanheide, Nils Hofemann, and Gerhard Sagerer
3. Local Motion Analysis and its Application in Video Based Swimming Style Recognition
   Xiaofeng Tong, Lingyu Duan, Changsheng Xu, Qi Tian, and Hanqing Lu
4. Driver Fatigue Detection Based Intelligent Vehicle Control
   Zutao Zhang and Jia-shu Zhang
5. Informative Shape Representations for Human Action Recognition
   Liang Wang and David Suter

Tue-P-I-1: Image Analysis

Convention Foyer, 10:30~12:30, Tuesday, 22/08/06

1. A Geometric Active Contour Framework Using Multi-Cue and Local Feature
   Zhenglong Li, Qingshan Liu, and Hanqing Lu
2. Bottom-Up Hierarchical Image Segmentation Using Region Competition and the Mumford-Shah Functional
   Yongsheng Pan, Douglas Birdwell, and Seddik Djouadi
3. An Iterative Bayesian Approach for Digital Matting
   Hang Chang, Qing Yang, and Chunhong Pan
4. Genus-Zero Shape Classification Using Spherical Normal Image
   Shaojun Liu and Jia Li
5. A Higher-Order Active Contour Model for Tree Detection
   Péter Horváth, Ian Jermyn, Zoltan Kato, and Josiane Zerubia
6. Scale Adaptive Complexity Measure of 2D Shapes
   H. Su, A. Bouridane, and D. Crookes
7. Comparing Different Localization Approaches of the Radon Transform for Road Centerline Extraction from Classified Satellite Imagery
   Qiaoping Zhang and Isabelle Couloigner
8. Object Localization Based on Directional Information: Case of 2D Raster Data
   Pascal Matsakis, JingBo Ni, and Xin Wang
9. Texture Segmentation Using Independent Component Analysis of Gabor Features
   Yang Chen and Runsheng Wang
10. Unsupervised Texture Segmentation by Spectral-Spatial-Independent Clustering
    Giuseppe Scarpa and Michal Haindl
11. Visible Edges Thresholding: A HVS Based Approach
    Nicolas Hautière and Didier Aubert
12. Matching Images Features in a Wide Base Line with ICA Descriptors
    R. Munguía, A. Grau, and A. Sanfeliu
13. Pay Attention When Selecting Features
    Simone Frintrop, Patric Jensfelt, and Henrik Christensen
14. Matching Interest Points Using Affine Invariant Concentric Circles
    Han-Pang Chiu and Tomas Lozano-Perez
15. Initialization Techniques for Segmentation with the Chan-Vese Model
    Jan Erik Solem, Niels Overgaard, and Anders Heyden

16. Robust Partial Volume Segmentation with Bias Field Correction in Brain MRI
Huiguang He, Bin Lv, and Ke Lu
17. Matching 2D Shapes Using their Symmetry Sets
Arjan Kuijper, Ole Fogh Olsen, Philip Bille, and Peter Giblin
18. A Charged Geometric Model for Active Contours
Ronghua Yang and Majid Mirmehdi
19. An Image Segmentation Framework Based on Patch Segmentation Fusion
Lei Zhang, Xun Wang, Nicholas Penwarden, and Qiang Ji
20. Inference of Moving Forms via Belief Propagation
Giuseppe Boccignone, Angelo Marcelli, Paolo Napoletano, and Mario Ferraro
21. Evaluating Hierarchical Graph-Based Segmentation
Yll Haxhimusa, Adrian Ion, and Walter Kropatsch
22. Texture Edge Detection Using Multi-resolution Features and SOM
Lalit Gupta and Sukhendu Das
23. Unsupervised Texture Segmentation Using Multispectral Modelling Approach
Michal Haindl and Stanislav Mikeš
24. Separating Subsurface Scattering from Photometric Images
Tai-Pang Wu and Chi-Keung Tang
25. Local Binary Pattern Descriptors for Dynamic Texture Recognition
Guoying Zhao and Matti Pietikäinen
26. Extracting Lines in Noisy Image Using Directional Information
Jun Zhou, Walter Bischof, and Arturo Sanchez-Azofeifa
27. Background Robust Object Labeling by Voting of Weight-Aggregated Local Features
Sungho Kim, Kuk-Jin Yoon, and In So Kweon
28. Joint Image Segmentation and Interpretation Using Iterative Semantic Region Growing on SAR Sea Ice Imagery
Qiyao Yu and David Clausi
29. A Low-Complexity Deformation Invariant Descriptor
Li Tian and Sei-ichiro Kamata
30. Independent Component Analysis Based Filter Design for Defect Detection in Low-Contrast Textured Images
Du-Ming Tsai, Yan-Hsin Tseng, Shin-Min Chao, and Chao-Hsuan Yen
31. A Subspace Approach to Texture Modelling by Using Gaussian Mixtures
Jiří Grim, Michal Haindl, Petr Somol, and Pavel Pudil
32. Gray-Scale Thinning by Using a Pseudo-Distance Map
A. Nedzved, S. Uchida, and S. Ablameyko
33. Smoothing with Active Surfaces: A Multiphase Level Set Approach
Cédric De Roover, Jacek Czyz, and Benoit Macq
34. Image Segmentation Based on Inscribed Circle
Zhanrong Li and Jianqing Zhang
35. Multi-Modal Sequential Monte Carlo for On-Line Hierarchical Graph Structure Estimation in Model-Based Scene Interpretation
Sungho Kim and In So Kweon
36. A Bayesian Approach to Visual Size Classification of Everyday Objects

Troy McDaniel, Kanav Kahol, and Sethuraman Panchanathan
37. Adaptive Step Size Window Matching for Detection
Nathan Mekuz, Konstantinos Derpanis, and John Tsotsos
38. Bit-Pairing Codification for Binary Pattern Projection System
Jun Cheng, Ronald Chung, Edmund Lam, and Kenneth Fung
39. Image Complexity and Feature Extraction for Steganalysis of LSB Matching Steganography
Qingzhong Liu, Andrew Sung, Jianyun Xu, and Bernardete Ribeiro
40. Efficient Topological Localization Using Orientation Adjacency Coherence Histograms
Junqiu Wang, Hongbin Zha, and Roberto Cipolla
41. Line Detection and Texture Characterization of Network Patterns
Costantino Grana, Rita Cucchiara, Giovanni Pellacani, and Stefania Seidenari
42. An LBP-Based Active Contour Algorithm for Unsupervised Texture Segmentation
M.A. Savelonas, D.K. Iakovidis, and D.E. Maroulis
43. Coarse Visual Registration from Closed-Contour Neighborhood Descriptor
Steve Bourgeois, Sylvie Naudet-Collette, and Michel Dhome
44. Fast Linear Feature Detection Using Multiple Directional Non-Maximum Suppression
Changming Sun and Pascal Vallotton
45. Detecting Rotational Symmetry under Affine Projection
Hugo Cornelius and Gareth Loy
46. A Clustering-Based Algorithm for Extracting the Centerlines of 2D and 3D Objects
Seifeddine Ferchichi and Shengrui Wang
47. Euclidean Quality Assessment for Binary Images
Chune Zhang, Zhengding Qiu, Dongmei Sun, and Jie Wu
48. Using Statistical Shape Priors in Geodesic Active Contours for Robust Object Detection
Wen Fang and Kap Luk Chan
49. Texture and Profile Features for Drawing Media Recognition in Underdrawings
Martin Lettner and Robert Sablatnig
50. A Novel Framework for Urban Change Detection Using VHR Satellite Images
Weiming Li, Xiaoming Li, Yihong Wu, and Zhanyi Hu
51. Boundary Correction for Total Variation Regularized L^1 Function with Applications to Image Decomposition and Segmentation
Terrence Chen and Thomas Huang
52. On-line Handwritten Chinese Word Recognition Based on Lexicon
Zhengbin Yao, Xiaoqing Ding, and Changsong Liu
53. A Hybrid License Plate Extraction Method for Complex Scenes
Wangchao Le and Shaofa Li
54. The Effect of Texture Representations on AAM Performance
P. Kittipanya-ngam and T.F. Cootes
55. A Global Solution to the SFS Problem Using B-Spline Surface and Simulated Annealing
Frédéric Courteille, Jean-Denis Durou, and Géraldine Morin

56. Image Categorization Using Local Probabilistic Descriptors
Katarina Mele, Jasna Maver, and Dorian Šuc
57. Visually Significant Dynamics for Watershed Segmentation
Juan Climent and Alberto Sanfeliu
58. A Heterogeneous Feature-Based Image Alignment Method
Cen Rao, Yanlin Guo, Harpreet Sawhney, and Rakesh Kumar
59. Change Detection Using Joint Intensity Histogram
Yasuyo Kita
60. Multi-Resolution Curve Alignment based on Salient Features
Zheng Li, Xiaonan Luo, and Chengying Gao
61. Robust Object Segmentation Using Graph Cut with Object and Background Seed Estimation
Jung-Ho Ahn, KilCheon Kim, and Hyeran Byun
62. New MRF Parameter Estimation Technique for Texture Image Segmentation Using Hierarchical GMRF Model Based on Random Spatial Interaction and Mean Field Theory
Dong Hwan Kim, Il Dong Yun, and Sang Uk Lee
63. Topological Localization Based on Salient Regions in Unknown Environments
Lu Wang, Yuling Li, and Zixing Cai
64. A Shape-Preserving Non-parametric Symmetry Transform
Olli Lahdenoja, Esa Alhoniemi, Mika Laiho, and Ari Paasio
65. Part-Based Multi-Frame Registration for Estimation of the Growth of Cellular Networks in Plant Roots
T. Roberts, S. McKenna, J. Hans, T. Valentine, and A. Bengough
66. Part-Based Probabilistic Point Matching
Graham McNeill and Sethu Vijayakumar
67. Conditional Linear Discriminant Analysis
Marco Loog
68. Feature Extraction from Micrographs of Forged Nickel Based Alloy
Alfred Rinnhofer, Wanda Benesova, Gerhard Jakob, and Manfred Stockinger
69. Unsupervised Learning of Dense Hierarchical Appearance Representations
Fabien Scalzo and Justus Piater
70. Adaptative Evaluation of Image Segmentation Results
Christophe Rosenberger
71. Fast Dichotomic Multiple Search Algorithm for Shortest Cirular Path
Martin de La Gorce and Nikos Paragios
72. Nonlinear Multiscale Graph Theory Based Segmentation of Color Images
I. Vanhamel, H. Sahli, and I. Pratikakis
73. FAIR: Towards a New Feature for Affinely-Invariant Recognition
Radim Šára and Martin Matoušek
74. Content-Based Image Retrieval Using Gabor-Zernike Features
X. Fu, Y. Li, R. Harrison, and S. Belkasim
75. Classification of Textures Distorted by Water Waves
Arturo Donate, Gary Dahme, and Eraldo Ribeiro

76. Joint Correspondence and Background Modeling Based on Tree Dynamic Programming
    Naveed Rao, Huijun Di, and Guangyou Xu
77. Integrating EMD and Gradient for Generating Primal Sketch of Natural Images
    Fang Dai, Nanning Zheng, and Jianru Xue
78. Unsupervised Texture Classification: Automatically Discover and Classify Texture Patterns
    Lei Qin, Weiqiang Wang, Qingming Huang, and Wen Gao

Tuesday Afternoon, 22 August 2006

Tue-O-I-2a: Human Activity Analysis

Hall B/C, 13:30~15:10, Tuesday, 22/08/06
Chairs: J. K. Aggarwal, and Tieniu Tan

1. Human Tracking by Particle Filtering Using Full 3D Model of Both Target and Environment
   Tatsuya Osawa, Xiaojun Wu, Kaoru Wakabayashi and Takayuki Yasuno
2. A Non-Parametric HMM Learning Method for Shape Dynamics with Application to Human Motion Recognition
   Ning Jin and Farzin Mokhtarian
3. Recognizing Facial Expressions by Tracking Feature Shapes
   Atul Kanaujia and Dimitris Metaxas
4. A Person and Context Specific Approach for Skin Color Classification
   Matthias Wimmer, Bernd Radig, and Michael Beetz
5. Learning and Inference of 3D Human Poses from Gaussian Mixture Modeled Silhouettes
   Feng Guo and Gang Qian

Tue-O-II-2: Image Recognition

Hall A, 13:30~15:10, Tuesday, 22/08/06
Chairs: Daniel Lopresti, and Adam Krzyzak

1. Invariant Texture Classification Using Ridgelet Packets
   G. Y. Chen and P. Bhattacharya
2. Latent Layout Analysis for Discovering Objects in Images
   David Liu, Datong Chen, and Tsuhan Chen
3. Image Classification: Classifying Distributions of Visual Features
   Prateek Sarkar
4. Camera-Based Document Image Mosaicing
   Jian Liang, Daniel DeMenthon, and David Doermann
5. Symbol Recognition of Printed Piano Scores with Touching Symbols
   Fubito Toyama, Kenji Shoji, and Juichi Miyamichi

Tue-O-III-2: Image and Data Representation

Room 401, 13:30~15:10, Tuesday, 22/08/06
Chairs: Kazuhiko Yamamoto, and Huang Zhong

Invited Paper

- Image Representation and Retrieval Using Support Vector Machine and Fuzzy C-Means Clustering Based Semantical Spaces
  Prabir Bhattacharya

1. Using the Hexagonal Grid for Three-Dimensional Images: Direct Fourier Method Reconstruction and Weighted Distance Transform
   Robin Strand
2. 3D Object Digitization: Majority Interpolation and Marching Cubes
   Peer Stelldinger and Longin Jan Latecki
3. Contour Encoding Based on Extraction of Key Points Using Wavelet Transform
   Vishnu Makkapati and Pravas Mahapatra

Tue-O-IV-2: Multimedia and Human Machine Interaction

Room 404/5, 13:30~15:10, Tuesday, 22/08/06
Chairs: Alberto Del Bimbo, and Massimo Piccardi

1. Synthesis of Stereoscopic 3D Videos by Limited Resources of Range Images
   Xiaoyi Jiang and Martin Lambers
2. Synthesizing Reflections of Inserted Objects
   Xiaochun Cao and Hassan Foroosh
3. Volume Motion Template for View-Invariant Gesture Recognition
   Myung-Cheol Roh, Ho-Keun Shin, Sang-Woong Lee, and Seong-Whan Lee
4. Embodied Proactive Human Interface "PICO-2"
   Ryo Kurazume, Hiroaki Omasa, Seiichi Uchida, Rinichiro Taniguchi, and Tsutomu Hasegawa
5. An Unsupervised Algorithm for Anchor Shot Detection
   M. De Santo, P. Foggia, G. Percannella, C. Sansone, and M. Vento

Tue-O-I-2b: Pattern and Shape Analysis

Room 406/7, 13:30~15:10, Tuesday, 22/08/06
Chairs: Gerard Medioni, and Xiaoou Tang

1. A New Affine Invariant Curve Normalization Technique using Independent Component Analysis
   Sait Sener and Mustafa Unel
2. Fast Linear Discriminant Analysis using Binary Bases
   Feng Tang and Hai Tao
3. Moment-Based Shape Priors for Geometric Active Contours
   Fuzhen Huang and Jianbo Su
4. Occlusion Resistant Shape Classifier Based on Warped Optimal Path Matching
   Ninad Thakoor, Sungyong Jung, Quan Wen, and Jean Gao
5. Canonical Skeletons for Shape Matching
   M. van Eede, D. Macrini, A. Telea, C. Sminchisescu, S. Dickinson

Tue-P-II-2: Advances in Basic Methodology I

Convention Foyer, 13:30~15:10, Tuesday, 22/08/06

1. Non-Iterative Two-Dimensional Linear Discriminant Analysis

Kohei Inoue and Kiichi Urahama

2. 3-D Affine Moment Invariants Generated by Geometric Primitives
   Dong Xu and Hua Li
3. The Generalization Performance for Learning Machine Based on Phi-mixing Sequence
   Bin Zou and Luoqing Li
4. Automatic Adjustment of Discriminant Adaptive Nearest Neighbor
   Nicolas Delannay, Cédric Archambeau, and Michel Verleysen
5. The Generalized Condensed Nearest Neighbor Rule as a Data Reduction Method
   Chien-Hsing Chou, Bo-Han Kuo, and Fu Chang
6. An Approach for Constructing Sparse Kernel Classifier
   Zejian Yuan, Yanyun Qu, Yang Yang, and Nanning Zheng
7. A Novel SVM Geometric Algorithm Based on Reduced Convex Hulls
   Michael Mavroforakis, Margaritis Sdralis, and Sergios Theodoridis
8. A General Framework for Agglomerative Hierarchical Clustering Algorithms
   Reynaldo Gil-García, José Badía-Contelles, and Aurora Pons-Porrata
9. Audio Music Genre Classification Using Different Classifiers and Feature Selection Methods
   Yusuf Yaslan and Zehra Cataltepe
10. Gaussian Mixture PDF in One-Class Classification: Computing and Utilizing Confidence Values
    J. Ilonen, P. Paalanen, J.K. Kamarainen, and H. Kälviäinen
11. General Bin-Picking Based on Harmonic Shape Contexts and Graph-Based Matching
    J. Kirkegaard and T.B. Moeslund
12. Two-dimensional Heteroscedastic Linear Discriminant Analysis for Age-group Classification
    Kazuya Ueki, Teruhide Hayashida, and Tetsunori Kobayashi
13. The Hidden Birth Dates of Personalities of Genesis
    Doron Witztum
14. Robust Clustering Based on Winner-Population Markov Chain
    Fu-Wen Yang, Hwei-Jen Lin, Patrick Wang, and Hung-Hsuan Wu
15. Classifiers for Motion
    Mithun Das Gupta, Shyamsundar Rajaram, Nemanja Petrovic, and Thomas Huang
16. A Probabilistic Approach to Fast and Robust Template Matching and its Application to Object Categorization
    Takeshi Mita, Toshimitsu Kaneko, and Osamu Hori
17. Ent-Boost: Boosting Using Entropy Measure for Robust Object Detection
    Duy-Dinh Le and Shin'ichi Satoh
18. Feature Selection for Linear Support Vector Machines
    Zhizheng Liang and Tuo Zhao
19. Adaptive Weighting of Local Classifiers by Particle Filter
    Kazuhiro Hotta
20. Function Dot Product Kernels for Support Vector Machine
    G. Y. Chen and P. Bhattacharya

21. A Wrapper for Feature Selection Based on Mutual Information
    Jinjie Huang, Yunze Cai, and Xiaoming Xu
22. An Information Theoretic Approach for Active and Effective Object Recognitions
    Koichiro Deguchi and Hiromi Ohtsu
23. Dimensionality Reduction with Adaptive Kernels
    Shuicheng Yan and Xiaoou Tang
24. A Comparison of Texture Features Based on SVM and SOM
    Chih-Ming Chen, Chien-Chang Chen, and Chaur-Chin Chen
25. Generalized Affine Moment Invariants for Object Recognition
    Esa Rahtu, Mikko Salo, Janne Heikkilä, and Jan Flusser
26. Differentiating between Many Similar Features Using Relational Information in Space and Scale
    Timothy Gan and Tom Drummond
27. Scene Identification Using Discriminative Patterns
    Joo-Hwee Lim, Jean-Pierre Chevallet, and Sheng Gao
28. Line-Based Affine Invariant Object Location Using Transformation Space Decomposition
    Richard Yang and Yongsheng Gao
29. A Reflex Fuzzy Min Max Neural Network for Granular Data Classification
    A.V. Nandedkar and P.K. Biswas
30. Detecting Periodically Expressed Genes Based on Time-frequency Analysis and L-curve Method
    Gan Xiangchao, Alan Liew, and Hong Yan
31. Feature Selection Based on the Training Set Manipulation
    Pavel Křížek, Josef Kittler, and Václav Hlaváč
32. An LVQ-Based Automotive Occupant Classification System
    Karl Kennedy, John Nathan, and M. Shridhar
33. Probabilistic Relaxation Using the Heat Equation
    HongFang Wang and Edwin Hancock
34. Exploiting the Geometry of Gene Expression Patterns for Unsupervised Learning
    Rave Harpaz and Robert Haralick
35. Boosted Markov Chain Monte Carlo Data Association for Multiple Targets Detection and Tracking
    Qian Yu, Isaac Cohen, Gerard Medioni, and Bo Wu
36. An Ensemble Classifier Learning Approach to ROC Optimization
    Sheng Gao, Chin-Hui Lee, and Joo Hwee Lim
37. Substring Alignment Method for Lexicon Based Handwritten Chinese String Recognition and its Application to Address Line Recognition
    Yan Jiang, Xiaoqing Ding, and Zheng Ren
38. A Hybrid Method of Unsupervised Feature Selection Based on Ranking
    Yun Li, Bao-Liang Lu, and Zhong-Fu Wu
39. A New Kernel Based on Weighted Cross-Correlation Coefficient for SVMs and its Application on Prediction of T-Cell Epitopes
    Jing Huang
40. Improvement of Prediction Accuracy Using Discretization and Voting Classifier

Asif Ekbal

41. Robust Fisher Linear Discriminant Model for Dimensionality Reduction
Weihong Deng, Jiani Hu, and Jun Guo
42. Improving Retrieval Performance by Global Analysis
Jiani Hu, Weihong Deng, and Jun Guo
43. Evolutionary Optimization of Feature Representation for 3D Point-Based Model Classification
Xin Tong, Hau-san Wong, Bo Ma, and Horace H.S. Ip
44. Weakly Supervised Learning on Pre-Image Problem in Kernel Methods
Wei-Shi Zheng, Jian-Huang Lai, and Pong Yuen
45. Approximation of Digital Curves Using Multi-Objective Genetic Algorithm
Hervé Locteau, Romain Raveaux, Sébastien Adam, Yves Lecourtier, Pierre Héroux, and Eric Trupin
46. A Fast and Efficient Ensemble Clustering Method
P. Viswanath and Karthik Jayasurya
47. A Prototypes-Embedded Genetic K-Means Algorithm
Shih-Sian Cheng, Yi-Hsiang Chao, Hsin-Min Wang, and Hsin-Chia Fu
48. Supervised Image Classification by SOM Activity Map Comparison
Grégoire Lefebvre, Christophe Laurent, Julien Ros, and Christophe Garcia
49. Constructing Visual Taxonomies by Shape
M. Gibbens and A. Cook
50. Multi-Subset Selection for Keyword Extraction and Other Prototype Search Tasks Using Feature Selection Algorithms
P. Somol and P. Pudil
51. GCA: A Real-Time Grid-Based Clustering Algorithm for Large Data Set
ZhiWen Yu and Hau-San Wong
52. Genetic-Based K-Means Algorithm for Selection of Feature Variables
ZhiWen Yu and Hau-San Wong
53. Mining Uncertain Data in Low-Dimensional Subspace
ZhiWen Yu and Hau-San Wong
54. Support Vector Machine with Orthogonal Chebyshev Kernel
Ning Ye, Ruixiang Sun, Yingan Liu, and Lin Cao
55. Ancient Initial Letters Indexing
Rudolf Pareti and Nicole Vincent
56. Clustering-Based Multispectral Band Selection Using Mutual Information
Adolfo Martínez-Usó, Filiberto Pla, Jose Sotoca, and Pedro García-Sevilla
57. Combination of Shape Descriptors Using an Adaptation of Boosting
O. Ramos Terrades, S. Tabbone, and E. Valveny
58. Invariant Ridgelet-Fourier Descriptor for Pattern Recognition
G.Y. Chen, T.D. Bui, and A. Krzyzak
59. Learning Bayesian Networks for Cytogenetic Image Classification
Boaz Lerner and Roy Malka
60. Multilinear Principal Component Analysis of Tensor Objects for Recognition
Haiping Lu, K.N. Plataniotis, and A.N. Venetsanopoulos
61. A New Data Selection Principle for Semi-Supervised Incremental Learning

Rong Zhang and Alexander Rudnicky

62. A Robust Algorithm for Generalized Orthonormal Discriminant Vectors
    Wenming Zheng and Xiaoou Tang
63. Domain Based LDA and QDA
    Piotr Juszczak, David Tax, Serguei Verzakov, and Robert Duin
64. A Unified Strategy to Deal with Different Natures of Reject
    Harold Mouchère and Éric Anquetil
65. On-Line Signature Verification by Exploiting Inter-Feature Dependencies
    Khalid Khan, Aurangzeb Khan, Mohammad Khan, and Imran Ahmad
66. A Hybrid Recognition Scheme Based on Partially Labeled SOM and MLP
    Shujing Lu, Chunyun Xiao, and Yue Lu
67. Improving Dynamic Learning Vector Quantization
    Claudio De Stefano, Ciro D'Elia, Angelo Marcelli, and Alessandra Scotto di Freca
68. Object Predetection Based on Kernel Parametric Probability Distribution Fitting
    Jean-Philippe Tarel and Sabri Boughorbel
69. Rule Extraction from Support Vector Machines: Measuring the Explanation Capability Using the Area under the ROC Curve
    Nahla Barakat and Andrew Bradley
70. Real-Time K-Means Clustering for Color Images on Reconfigurable Hardware
    Tsutomu Maruyama
71. Asymmetric Kernel Method and its Application to Fisher's Discriminant
    Naoya Koide and Yukihiko Yamashita
72. A Pattern Selection Algorithm Based on the Generalized Confidence
    Ren junling
73. Combining Generative and Discriminative Methods for Pixel Classification with Multi-Conditional Learning
    Michael Kelm, Chris Pal, and Andrew McCallum
74. Class Dependent Cluster Refinement
    Jakob Sternby
75. Migration Analysis: An Alternative Approach for Analyzing Learning Performance
    Prasertsak Pungprasertying, Ratthachat Chatpatanasiri, and Boonserm Kijsirikul
76. Affine Invariant Dynamic Time Warping and its Application to Online Rotated Handwriting Recognition
    Yu Qiao and Makoto Yasuhara

Tue-O-I-3a: Stereo and Motion I

Hall B/C, 15:40~17:40, Tuesday, 22/08/06
Chairs: Brian Lovell, and Yi-Ping Hung

Invited Paper

- Remaining Problems in Multiview Geometry
  Richard Hartley

Rong Zhang and Alexander Rudnicky

62. A Robust Algorithm for Generalized Orthonormal Discriminant Vectors
    Wenming Zheng and Xiaoou Tang
63. Domain Based LDA and QDA
    Piotr Juszczak, David Tax, Serguei Verzakov, and Robert Duin
64. A Unified Strategy to Deal with Different Natures of Reject
    Harold Mouchère and Éric Anquetil
65. On-Line Signature Verification by Exploiting Inter-Feature Dependencies
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    Prasertsak Pungprasertying, Ratthachat Chatpatanasiri, and Boonserm Kijsirikul
76. Affine Invariant Dynamic Time Warping and its Application to Online Rotated Handwriting Recognition
    Yu Qiao and Makoto Yasuhara
77. Identifying Handwritten Text in Mixed Documents
    Faisal Farooq, Karthik Sridharan, and Venu Govindaraju

Tue-O-I-3a: Stereo and Motion I

Hall B/C, 15:40~17:40, Tuesday, 22/08/06
Chairs: Brian Lovell, and Yi-Ping Hung

Invited Paper

- Remaining Problems in Multiview Geometry
  Richard Hartley

6. Robust Image Registration Based on Markov-Gibbs Appearance Model
   Ayman El-Baz, Aly Farag, Georgy Gimel'farb, and Alaa Abdel-Hakim

Tue-O-IV-3: Face Recognition I

Room 404/5, 15:40~17:40, Tuesday, 22/08/06
Chairs: Xiaoou Tang, and Tieniu Tan

1. A Novel Mathematical Model for Enhanced Fisher's Linear Discriminant and its Application to Face Recognition
   GaoYun An and QiuQi Ruan
2. Patch-Based Gabor Fisher Classifier for Face Recognition
   Yu Su, Shiguang Shan, Xilin Chen, and Wen Gao
3. A Face Recognition System Dealing with Expression Variant Faces
   Stefano Arca, Paola Campadelli, Raffaella Lanzarotti, and Giuseppe Lipori
4. Neighborhood Discriminant Projection for Face Recognition
   Qubo You, Nanning Zheng, Shaoyi Du, and Yang Wu
5. Local Visual Primitives (LVP) for Face Modelling and Recognition
   Xin Meng, Shiguang Shan, Xilin Chen, and Wen Gao
6. Class-Specific Subspace-Based Two-Dimensional Principal Component Analysis for Face Recognition
   P. Sanguansat, W. Asdornwised, S. Jitapunkul, and S. Marukatat

Tue-O-I-3b: Gesture Analysis

Room 406/7, 15:40~17:40, Tuesday, 22/08/06
Chairs: Tat Hung Tsui, and Alberto Sanfeliu

1. Texture-Constrained Shape Prediction for Mouth Contour Extraction and its State Estimation
   Zhaorong LI and Haizhou AI
2. Segmentation and Probabilistic Registration of Articulated Body Models
   Aravind Sundaresan and Rama Chellappa
3. Adaptation to Walking Direction Changes for Gait Identification
   Yasushi Makihara, Ryusuke Sagawa, Yasuhiro Mukaigawa, Tomio Echigo, and Yasushi Yagi
4. Hand Gesture Recognition for Deaf People Interfacing
   Isaac García Incertis, Jaime Gómez García-Bermejo, and Eduardo Zalama Casanova
5. The Design of a Vision-Based Fingertip Writing Interface
   Zhi-Wei Chen, Yu-Cheng Lin, and Cheng-Chin Chiang
6. Detecting Coarticulation in Sign Language using Conditional Random Fields
   Ruiduo Yang and Sudeep Sarkar

Tue-P-II-3: Visual Pattern Recognition

Convention Foyer, 15:40~17:40, Tuesday, 22/08/06

1. An Efficient Feature–Based License Plate Localization Method
   Hamid Mahini, Shohreh Kasaei, Faezeh Dorri, and Fatemeh Dorri
2. Early Feature Stream Integration versus Decision Level Combination in a Multiple Classifier System for Text Line Recognition
   Roman Bertolami and Horst Bunke
3. Vision-Based Robot Positioning by an Exact Distance between Histograms
   Francesc Serratosa and Alberto Sanfeliu
4. Fast Image Retrieval Based on Equal-Average Equal-Variance K-Nearest Neighbour Search
   Zhe-Ming Lu and Hans Burkhardt
5. Online Persian/Arabic Character Recognition by Polynomial Representation and a Kohonen Network
   Ehsan Nourouzian, Neila Mezghani, Amar Mitiche, and Robert de B. Johnston
6. One Dimensional Fractal Coder for Online Signature Recognition
   Saeed Mozaffari, Karim faez, and Farhad Faradji
7. Effective Classification Image Space which can Solve Small Sample Size Problem
   Yu-jie Zheng, Jing-yu Yang, Jian Yang, and Xiao-jun Wu
8. Joint Distributions Based on DFB and Gaussian Mixtures for Evaluation of Style Similarity among Paintings
   Xiqun Lu
9. A New Off-line Signature Verification Method Based on Graph Matching
   Siyuan Chen and Sargur Srihari
10. Recognition of English Multi-Oriented Characters
    U. Pal, F. Kimura, K. Roy, and T. Pal
11. Inspecting Ingredients of Starches in Starch-Noodle based on Image Processing and Pattern Recognition
    Mingen Guo, Zongying Ou, and Honglei Wei
12. Multi-View Sampling for Relevance Feedback in Image Retrieval
    Jian Cheng and Kongqiao Wang
13. Binarization and Recognition of Degraded Characters Using a Maximum Separability Axis in Color Space and GAT Correlation
    Minoru Yokobayashi and Toru Wakahara
14. Multi-Linguistic Optical Font Recognition Using Stroke Templates
    Hung-Ming Sun
15. Machine Printed Arabic Character Recognition Using S-GCM
    Liying Zheng
16. HMMs with Explicit State Duration Applied to Handwritten Arabic Word Recognition
    Abdallah Benouareth, Abdellatif Ennaji, and Mokhtar Sellami
17. Character Segmentation-by-Recognition Using Log-Gabor Filters
    Céline Mancas-Thillou and Bernard Gosselin
18. Wavelet Transforms and Neural Networks Applied to Image Retrieval
    Alain Gonzalez, Juan Sossa, Edgardo Felipe, and Oleksiy Pogrebnyak

19. Offline Cursive Character Challenge: A New Benchmark for Machine Learning and Pattern Recognition Algorithms
    Francesco Camastra, Marco Spinetti, and Alessandro Vinciarelli
20. High-Dimensional Discriminant Analysis and its Application to Color Face Recognition
    Zhizheng Liang
21. A Study of Nonlinear Shape Normalization for Online Handwritten Chinese Character Recognition: Dot Density vs. Line Density Equalization
    Zhen-Long Bai and Qiang Huo
22. Gabor Wavelet Correlogram Algorithm for Image Indexing and Retrieval
    H. Abrishami Moghaddam and M. Saadatmand-Tarzjan
23. Word Extraction of On-Line Handwritten Text Lines
    Marcus Liwicki, Mathias Scherz, and Horst Bunke
24. Feature Extraction for Bank Note Classification Using Wavelet Transform
    Euisun Choi, Jongseok Lee, and Joonhyun Yoon
25. Texture Classification Using Curvelet Statistical and Co-occurrence Features
    Selvaraj Arivazhagan, L. Ganesan, and T.G. Subash Kumar
26. High Accuracy Handwritten Chinese Character Recognition Using Quadratic Classifiers with Discriminative Feature Extraction
    Cheng-Lin Liu
27. Using Texture-Based Symbolic Features for Medical Image Representation
    Filip Florea, Eugen Barbu, Alexandrina Rogozan, and Abdelaziz Bensrhair
28. Script Identification Based on Morphological Reconstruction in Document Images
    B.V. Dhandra, P. Nagabhushan, Mallikarjun Hangarge, Ravindra Hegadi, and V.S. Malemath
29. Skew Detection in Binary Image Documents Based on Image Dilation and Region Labeling Approach
    B.V. Dhandra, V.S. Malemath, Mallikarjun H., and Ravindra Hegadi
30. Near-Duplicate Image Recognition and Content-Based Image Retrieval Using Adaptive Hierarchical Geometric Centroids
    Mai Yang, Guoping Qiu, Jiwu Huang, and Dave Elliman
31. Car/Non-Car Classification in an Informative Sample Subspace
    Jianzhong Fang and Guoping Qiu
32. A Study on Character Recognition Error Correction at Higher Level Recognition Step for Mathematical Formulae Understanding
    Yusuke Takiguchi, Minoru Okada, and Yasuji Miyake
33. Recover Writing Trajectory from Multiple Stroked Image Using Bidirectional Dynamic Search
    Yu Qiao and Makoto Yasuhara
34. A Novel Segmentation and Recognition Algorithm for Chinese Handwritten Address Character Strings
    Qiang Fu, X.Q. Ding, Tong Liu, Yan Jiang, and Zheng Ren
35. Evaluating Feature Importance for Object Classification in Visual Surveillance
    Masamitsu Tsuchiya and Hironobu Fujiyoshi
36. OCRGrid: A Platform for Distributed and Cooperative OCR Systems

Hideaki Goto
37. An Efficient Radical-Based Algorithm for Stroke-Order-Free Online Kanji Character Recognition
Wenjie Cai, Seiichi Uchida, and Hiroaki Sakoe
38. Space-Time Moment Invariants and Recognition of Non-Rigid Motions from Arbitrary Viewpoints
Takatsugu Yamada and Jun Sato
39. Human Silhouette Extraction Based on HMM
San-Lung Zhao and Hsi-Jian Lee
40. Hybrid Off-Line Cursive Handwriting Word Recognition
B. Gatos, I. Pratikakis, and S.J. Perantonis
41. A Robust Split-and-Merge Text Segmentation Approach for Images
Yaowen Zhan, Weiqiang Wang, and Wen Gao
42. Layered Search Spaces for Accelerating Large Set Character Recognition
Yiping Yang and Masaki Nakagawa
43. Preprocessing of Handwritten Date Images on Chinese Cheque
Chongyang Zhang, Jingyu Yang, and Zhen Lou
44. Trains of Keypoints for 3D Object Recognition
Elise Arnaud, Elisabetta Delponte, Francesca Odone, and Alessandro Verri
45. Style Quantification of Scanned Multi-Source Digits
Xiaoli Zhang and George Nagy
46. An Iterative Algorithm for Segmentation of Isolated Handwritten Words in Gurmukhi Script
Dharam Veer Sharma and Gurpreet Singh Lehal
47. Automatic Adjacency Grammar Generation from User Drawn Sketches
Juan Mas Romeu, Bart Lamiroy, Gemma Sanchez, and Josep Llados
48. Detecting Text Line in Handwritten Documents
Yi Li, Yefeng Zheng, and David Doermann
49. Classification of Line and Character Pixels on Raster Maps Using Discrete Cosine Transformation Coefficients and Support Vector Machines
Yao-Yi Chiang and Craig Knoblock
50. A Novel Virus Infection Clustering for Flower Images Identification
Siu-Yeung Cho and Peh-Ti Lim
51. Camera Text Recognition Based on Perspective Invariants
Shijian Lu and Chew Lim Tan
52. Improvement of OCR Accuracy by Similar Character Pair Discrimination: An Approach Based on Artificial Immune System
Utpal Garain, M. P. Chakraborty, and D. Dutta Majumder
53. An Efficient Text Capture Method for Moving Robots Using DCT Feature and Text Tracking
Hiroki Shiratori, Hideaki Goto, and Hiroaki Kobayashi
54. A Novel Caption Extraction Scheme for Various Sports Captions
Yih-Ming Su and Chaur-Heh Hsieh
55. Fingerprint Verification Based on Multistage Minutiae Matching
Honglei Wei, Mingen Guo, and Zongying Ou

56. Flexible Text Recovery from Degraded Typewritten Historical Documents
A. Antonacopoulos and C. Casado Castilla
57. Using Boosting to Improve Oil Spill Detection in SAR Images
Geraldo Ramalho and Fátima Medeiros
58. Vision-Based Preceding Vehicle Detection and Tracking
Chih-Ming Fu, Chung-Lin Huang, and Yi-Sheng Chen
59. Stroke Verification with Gray-Level Image for Hangul Video Text Recognition
Jinsik Kim, Seonghun Lee, Younghee Kwon, and Jin Kim
60. Exploiting High Dimensional Video Features Using Layered Gaussian Mixture Models
Datong Chen and Jie Yang
61. Anti-Personnel Mine Detection and Classification Using GPR Image
Alauddin Bhuiyan and Baikunth Nath
62. Recognition of Screen-Rendered Text
Steffen Wachenfeld, Hans-Ulrich Klein, and Xiaoyi Jiang
63. Constraint-Based Prototyping for Understanding Three Orthographic Views
Kazunori Mizuno and Seiichi Nishihara
64. Historical Hand-Written String Recognition by Non-Linear Discriminant Analysis Using Kernel Feature Selection
Ryo Inoue, Hidehisa Nakayama, and Nei Kato
65. Affine Invariant Information Embedment for Accurate Camera-Based Character Recognition
Shinichiro Omachi, Masakazu Iwamura, Seiichi Uchida, and Koichi Kise
66. Learning-Based License Plate Detection Using Global and Local Features
Huaifeng Zhang, Wenjing Jia, Xiangjian He, and Qiang Wu
67. A Generic Method for Eager Interpretation of On-Line Handwritten Structured Documents
Sébastien Macé and Éric Anquetil
68. Isomap Based on the Image Euclidean Distance
Jie Chen, Ruiping Wang, Shiguang Shan, Xilin Chen, and Wen Gao
69. Multi-Order Standard Deviation Based Distance and its Application in Handwritten Chinese Characters Recognition
Ren junling
70. Efficient Search and Verification for Function Based Classification from Real Range Images
Ilan Shimshoni, Ehud Rivlin, and Octavian Soldea
71. Spectrum Analysis Based on Windows with Variable Widths for Online Signature Verification
Zhong-hua Quan, De-shuang Huang, Xiao-lei Xia, Michael Lyu, and Tat-Ming Lok
72. Image Tangent Space for Image Retrieval
Hongyu Li, Rongjie Shi, Wenbin Chen, and I-Fan Shen
73. A New Clustering Method for Improving Plasticity and Stability in Handwritten Character Recognition Systems
Javad Sadri, Ching Suen, and Tien Bui

74. OCR Fonts Revisited for Camera-Based Character Recognition
Seiichi Uchida, Masakazu Iwamura, Shinichiro Omachi, and Koichi Kise
75. Learning Optimal Filter Representation for Texture Classification
Peng Zhang, Jing Peng, and Bill Buckles

Wednesday Morning, 23 August 2006

Plenary Session:

Hall B/C, 09:00~10:00, Wednesday, 23/08/06
Chinese Character Recognition: Status and Prospects in Research and Applications
Ru-Wei Dai (Ju Wei Tai), Chinese Academy of Sciences
Chair: Guy Lorette

Wed-O-I-1: Stereo and Motion II

Hall B/C, 10:30~12:30, Wednesday, 23/08/06
Chairs: Sarkar Sudeep, and Yoshiaki Shirai

Invited Paper

- Variations on Variational Principles for Computer Vision
  Olivier Faugeras

1. Dense Estimation of Layer Motions in the Atmosphere
   Patrick Héas, Etienne Mémin, and Nicolas Papadakis
2. Motion from Focus
   Huynh Quang Huy Viet, Makoto Sato, and Hiromi T. Tanaka
3. Structural flow Smoothing for Shape Interpolation
   Ashish Doshi and Adrian Bors
4. Segment-Based Stereo Matching Using Belief Propagation and a Self-Adapting Dissimilarity Measure
   Andreas Klaus, Mario Sormann, and Konrad Karner

Wed-O-II-1a: Pattern Detection

Hall A, 10:30~12:30, Wednesday, 23/08/06
Chairs: Ching Suen, and Igor B.Gurevich

1. Novel Adaptive Nearest Neighbor Classifiers Based on Hit-Distance
   Zhen Lou and Zhong Jin
2. Emotional Speech Analysis on Nonlinear Manifold
   Mingyu You, Chun Chen, Jiajun Bu, Jia Liu, and Jianhua Tao
3. Object Localization Using Input/Output Recursive Neural Networks
   Monica Bianchini, Marco Maggini, and Lorenzo Sarti
4. A Maximum-Likelihood Approach to Symbolic Indirect Correlation
   Ashutosh Joshi, George Nagy, Daniel Lopresti, and Sharad Seth
5. Basic Concepts for Testing the Torah Code Hypothesis
   Robert Haralick
6. Testing the Torah Code Hypothesis: The Experimental Protocol
   Robert Haralick

Wed-O-III-1: Medical Image Processing

Room 401, 10:30~12:30, Wednesday, 23/08/06
Chairs: Hsi-Jian Lee, and Yasuyo Kita

1. A Riemannian Weighted Filter for Edge-sensitive Image Smoothing
   Fan Zhang and Edwin R. Hancock
2. Physically Motivated Reconstruction of Fiberscopic Images
   Matthias Elter, Stephan Rupp, and Christian Winter
3. Image Denoising with k-nearest Neighbor and Support Vector Regression
   Bram van Ginneken and Adriënne Mendrik
4. Subpixel Alignment of MRI Data Under Cartesian and Log-Polar Sampling
   Murat Balci, Mais Alnasser and Hassan Foroosh
5. A Framework for Automatic Segmentation of Lung Nodules from Low Dose Chest CT Scans
   Ayman El-Baz, Aly Farag, Georgy Gimel'farb, Robert Falk, Mohamed A. El-Ghar, and Tarek Eldiasty
6. Shape Alignment by Learning a Landmark-PDM Coupled Model
   Yifeng Jiang, Jun Xie, and Hung Tat Tsui

Wed-O-IV-1: Biomedical Imaging II

Room 404/5, 10:30~12:30, Wednesday, 23/08/06
Chairs: Sergey Ablameyko, and Horst Bunke

1. Automatic Segmentation of Muscles of Mastication from Magnetic Resonance Images Using Prior Knowledge
   H.P. Ng, S.H. Ong, K.W.C. Foong, P.S. Goh, and W.L. Nowinski
2. Classification of Segmented Regions in Brightfield Microscope Images
   Marko Tscherepanow, Frank Zöllner, and Franz Kummert
3. Segmentation of Medical Images with Regional Inhomogeneities
   D.K. Iakovidis, M.A. Savelonas, S.A. Karkanis, and D.E. Maroulis
4. Adaptive Control of Video Display for Diagnostic Assistance by Analysis of Capsule Endoscopic Images
   Vu Hai, Tomio Echigo, Ryusuke Sagawa, Keiko Yagi, Masatsugu Shiba, Kazuhide Higuchi, Tetsuo Arakawa, and Yasushi Yagi
5. Bayesian MS Lesion Classification Modeling Regional and Local Spatial Information
   Rola Harmouche, Louis Collins, Douglas Arnold, Simon Francis, and Tal Arbel
6. Extraction of Trabecular Structures of Mandible Excluding Tooth Roots on Dental Panoramic Radiographs Using Mathematical Morphology
   Akira Asano, Takahiro Tambe, Akira Taguchi, Chie Muraki Asano, Takashi Nakamoto, Keiji Tanimoto, and Takao Hinamoto

Wed-O-II-1b: Pattern Matching Methods I

Room 406/7, 10:30~12:30, Wednesday, 23/08/06

Chairs: Phoebe Chen, and Apostolos Antonacopoulos

1. A Unified Formulation of Invariant Point Pattern Matching
   Tibério S. Caetano and Terry Caelli
2. Efficient Feature Extraction Based on Regularized Uncorrelated Chernoff Discriminant Analysis
   A.K. Qin, P.N. Suganthan, and M. Loog
3. Minimum Enclosing and Maximum Excluding Machine for Pattern Description and Discrimination
   Yi Liu and Yuan Zheng
4. Graph Matching Using Interference of Coined Quantum Walks
   David Emms, Edwin Hancock, and Richard Wilson
5. Dissimilarity-Based Classification for Vectorial Representations
   Elżbieta Pękalska and Robert Duin

Wed-P-II-1: Advances in Basic Methodology II

Convention Foyer, 10:30~12:30, Wednesday, 23/08/06

1. Scale Invariants of Three-Dimensional Legendre Moments
   Lee-Yeng Ong, Chee-Way Chong, and Rosli Besar
2. An Interweaved HMM/DTW Approach to Robust Time Series Clustering
   Jianying Hu, Bonnie Ray, and Lanshan Han
3. Patterns of Equidistant Letter Sequence Pairs in Genesis
   Harold J. Gans, Zvi Inbal, and Nachum Bomboch
4. Experimental Comparison of Combination Rules Using Simulated Data
   Héla Zouari, Laurent Heutte, and Yves Lecourtier
5. Comparative Classifier Aggregation
   Ahmad Abdulkader, John Drakopoulos, and Qi Zhang
6. Object Detection Based on Combination of Conditional Random Field and Markov Random Field
   Ping Zhong and Runsheng Wang
7. CAPTCHA Challenge Tradeoffs: Familiarity of Strings versus Degradation of Images
   Sui-Yu Wang and Henry Baird
8. A Probabilistic Model with Parsinomious Representation for Sensor Fusion in Recognizing Activity in Pervasive Environment
   Dung Tran, Dinh Phung, Hung Bui, and Svetha Venkatesh
9. Incremental Construction of Neighborhood Graphs for Nonlinear Dimensionality Reduction
   Dongfang Zhao and Li Yang
10. Non-Overlapping Distributed Tracking Using Particle Filter
    Wilson Leoputra, Tele Tan, and Fee Lee Lim
11. Protein Fold Recognition Using a Structural Hidden Markov Model
    Djamel Bouchaffra and J. Tan

12. A Novel Approach to Very Fast and Noise Robust, Isolated Word Speech Recognition
    Ramin Halavati, Saeed Bagheri Shouraki, Hossein Tajik, Arpineh Cholakian, and Mina Razaghpour
13. Separating Reflections from Images Using Kernel Independent Component Analysis
    Masaki Yamazaki, Yen-Wei Chen, and Gang Xu
14. A Generalized K-Means Algorithm with Semi-Supervised Weight Coefficients
    Fujiki Morii
15. Human Behavior Recognition with Generic Exponential Family Duration Modeling in the Hidden Semi-Markov Model
    Thi V. Duong, Dinh Q. Phung, Hung H. Bui, and Svetha Venkatesh
16. Extraction of Consistent Subsets of Descriptors Using Choquet Integral
    Jan Rendek and Laurent Wendling
17. Statistical Borders for Incremental Mining
    Richard Nock, Pierre-Alain Laur, and Jean-Emile Symphor
18. A Fast Binary-Image Comparison Method with Local-Dissimilarity Quantification
    Etienne Baudrier, Gilles Millon, Frédéric Nicolier, and Su Ruan
19. Ball Hit Detection in Table Tennis Games Based on Audio Analysis
    Bin Zhang, Weibei Dou, and Liming Chen
20. A Two Stage Outlier Rejection Strategy for Numerical Field Extraction in Handwritten Documents
    Clément Chatelain, Laurent Heutte, and Thierry Paquet
21. A Time Warping Based Approach for Video Copy Detection
    Chih-Yi Chiu, Cheng-Hung Li, Hsiang-An Wang, Chu-Song Chen, and Lee-Feng Chien
22. Local Behaviours Labelling for Content Based Video Copy Detection
    Julien Law-To, Valerie Gouet-Brunet, Olivier Buisson, and Nozha Boujemaa
23. Statistical Model for the Classification of the Wavelet Transforms of T-ray Pulses
    X.X. Yin, B.W.H. Ng, B. Ferguson, S.P. Mickan, and D. Abbott
24. Efficient Cross-Validation of the Complete Two Stages in KFD Classifier Formulation
    Senjian An, Wanquan Liu, and Svetha Venkatesh
25. Regularity and Complexity of Human Electroencephalogram Dynamics: Applications to Diagnosis of Alzheimers Disease
    Zhenghui Hu and Pengcheng Shi
26. A Combination of Generative and Discriminative Approaches to Object Detection
    Junyeong Yang and Hyeran Byun
27. Class Separability in Spaces Reduced by Feature Selection
    Erinija Pranckeviciene, Tin Kam Ho, and Ray Somorjai
28. Traffic Prediction Using Ying-Yang Fuzzy Cerebellar Model Articulation Controller
    M.N. Nguyen, D. Shi, C. Quek, and G.S. Ng
29. Improved Junk Email Filtering by Semantic Content
    Eric Jiang
30. P-Channels: Robust Multivariate M-Estimation of Large Datasets
    Michael Felsberg and Gösta Granlund

31. Improving Text Classifier Performance Based on AUC
    Alex K.S. Wong, John W.T. Lee, and Daniel S. Yeung
32. Incremental Vehicle 3-D Modeling from Video
    N. Ghosh and B. Bhanu
33. Illumination Invariant Texture Retrieval
    Michal Haindl and Pavel Vácha
34. A Coupon Classification Method Based on Adaptive Image Vector Matching
    Takeshi Nagasaki, Katsumi Marukawa, Tatsuhiko Kagehiro, and Hiroshi Sako
35. Ethiopic Character Recognition Using Direction Field Tensor
    Yaregal Assabie and Josef Bigun
36. Recognition of Lung Lobes and its Application to the Bronchial Structure Analysis
    Takayuki Kitasaka, Yuichi Nakada, Kensaku Mori, Yasuhito Suenaga, Hirotsugu Takabatake, Masaki Mori, and Hiroshi Natori
37. A Markovian Approach for Handwritten Document Segmentation
    Stéphane Nicolas, Thierry Paquet, and Laurent Heutte
38. Graph Classification Using Genetic Algorithm and Graph Probing Application to Symbol Recognition
    Eugen Barbu, Romain Raveaux, Hervé Locteau, Sébastien Adam, Pierre Héroux, and Eric Trupin
39. Comparing Rank-Inducing Scoring Systems
    Narayan L. Bhamidipati and Sankar K. Pal
40. LIGHT: Local Invariant Generalized Hough Transform
    Jose A.R. Artolazabal, John Illingworth, and Alberto S. Aguado
41. Comparison of Structural Variables with Spatio-temporal Variables Concerning the Identifiablity of Okuri Class and Player in Japanese Traditional Dancing
    Mitsu Yoshimura, Kozaburo Hachimura, and Yuuka Marumo
42. Real Time Large Vocabulary Continuous Sign Language Recognition Based on OP/Viterbi Algorithm
    Guilin Yao, Hongxun Yao, Xin Liu, and Feng Jiang
43. Efficient Relevance Feedback Using Semi-supervised Kernel-specified K-means Clustering
    Bo Qiu, Chang Sheng Xu, and Qi Tian
44. A Novel Pattern Classification Scheme: Classwise Non-Principal Component Analysis (CNPCA)
    Guorong Xuan, Peiqi Chai, Xiuming Zhu, Qiuming Yao, Cong Huang, Yun Shi, and Dongdong Fu
45. Semi-Parametric Model-Based Clustering for DNA Microarray Data
    Bohyung Han and Larry Davis
46. Local Discriminant Analysis
    Marco Loog and Dick de Ridder
47. Predicting the Benefit of Sample Size Extension in Multiclass k-NN Classification
    Christian Kier and Til Aach
48. Rotation-Invariant Neoperceptron
    Beat Fasel and Daniel Gatica-Perez
49. A Template-Matching Approach for Protein Surface Clustering

L. Baldacci, M. Golfarelli, A. Lumini, and S. Rizzi
50. Summarization of JBIG2 Compressed Indian Language Textual Images
Utpal Garain, Alok K. Datta, U. Bhattacharya, and S.K. Parui
51. Pen-Coordinate Information Modeling by SCPR-based HMM for On-line Japanese Handwriting Recognition
Junko Tokuno, Yiping Yang, Gleidson Pegoretti da Silva, Akihito Kitadai, and Masaki Nakagawa
52. Scalable Representative Instance Selection and Ranking
Xingquan Zhu and Xindong Wu
53. Learning Policies for Efficiently Identifying Objects of Many Classes
Ramana Isukapalli, Ahmed Elgammal, and Russell Greiner
54. Image Classification for Genetic Diagnosis Using Fuzzy ARTMAP
Boaz Lerner and Boaz Vigdor
55. Fast Support Vector Machine Classification Using Linear SVMs
Karina Zapién Arreola, Janis Fehr, and Hans Burkhardt
56. A Novel Approach for Lexical Noise Analysis and Measurement in Intelligent Information Retrieval
T. Jaber, A. Amira, and P. Milligan
57. Bayesian Feedback in Data Clustering
A.K. Jain, Pavan K. Mallapragada, and Martin Law
58. Learning Mixtures of Offline and Online Features for Handwritten Stroke Recognition
Karteek Alahari, Satya Lahari Putrevu, and C.V. Jawahar
59. Perceptual Audio Watermarking by Learning in Wavelet Domain
Bilge Gunsel and Serap Kirbiz
60. A New Method to Detect Arcs and Segments from Curvature Profiles
J.P. Salmon, I. Debled-Rennesson, and L. Wendling
61. A Trainable Similarity Measure for Image Classification
Pavel Paclík, Jana Novovičová, and Robert P.W. Duin
62. Comparison of Methods for Hyperspherical Data Averaging and Parameter Estimation
Kai Rothaus, Xiaoyi Jiang, and Martin Lambers
63. Data Mining Applied to Acoustic Bird Species Recognition
Erika Vilches, Ivan A. Escobar, Edgar E. Vallejo, and Charles E. Taylor
64. A Hybrid, Recursive Algorithm for Clustering Expressed Sequence Tags in Chlamydomonas Reinhardtii
Monica Jain, Hilary Holz, Jeff Shrager, Olivier Vallon, Charles Hauser, and Arthur Grossman
65. The Twin Towers Cluster in Torah Codes
Eliyahu Rips and Art Levitt
66. Component Analysis of Torah Code Phrases
Art Levitt
67. Fase Feature Extraction Approach for Multi-Dimension Feature Space Problems
Alaa Sagheer, Naoyuki Tsuruta, Rin-Ichiro Taniguchi, Daisaku Arita, and Sakashi Maeda

68. Local Variance Driven Self-Organization for Unsupervised Clustering
    Matthew Kyan and Ling Guan
69. Fusion Algorithm for Locally Arranged Linear Models
    Florian Hoppe and Gerald Sommer
70. Combining Global and Local Classifiers with Bayesian Network
    Leonardo Noguiera Matos and João Marques de Carvalho
71. Perceptual Knowledge Extraction Using Bayesian Networks of Salient Image Objects
    Roman M. Palenichka and Marek B. Zaremba
72. Classification Using the Local Probabilistic Centers of k-Nearest Neighbors
    Bo Yu Li and Yun Wen Chen
73. Graph Matching Using Commute Time Spanning Trees
    Huaijun Qiu and Edwin R. Hancock
74. Graph-Based Transformation Manifolds for Invariant Pattern Recognition with Kernel Methods
    Alexei Pozdnoukhov and Samy Bengio
75. Feature Selection Based on the Bhattacharyya Distance
    Guorong Xuan, Xiuming Zhu, Peiqi Chai, Zhenping Zhang, Yun Q. Shi, and Dongdong Fu
76. Learning an Optimal Naïve Bayes Classifier
    Miriam Martinez-Arroyo and L. Enrique Sucar
77. A Model-Based Approach for Rigid Object Recognition
    Chee Boon Chong,Tele Tan, and Fee Lee Lim

Wednesday Afternoon, 23 August 2006

Wed-O-I-2: Object Detection and Recognition

Hall B/C, 13:30~15:10, Wednesday, 23/08/06
Chairs: Alberto Sanfeliu, and Réjean Plamondon

1. Object Detection with Adaptive Background Model and Margined Sign Cross Correlation
   Hironori Yoshimura, Yoshio Iwai, and Masahiko Yachida
2. Convex Quadratic Programming for Object Localization
   Hao Jiang, Mark Drew, and Ze-Nian Li
3. Combining Low and High Level Features for Object Recognition
   Ishani Chakraborty and Ahmed Elgammal
4. Real-Time Object Recognition Using Relational Dependency Based on Graphical Model
   Woo-han Yun, Sung Yang Bang, and Daijin Kim
5. Tensor Discriminant Analysis for View-Based Object Recognition
   Yong Wang and Shaogang Gong

Wed-O-II-2a: Pattern Classification I

Hall A, 13:30~15:10, Wednesday, 23/08/06
Chairs: Tin Kam Ho, and Robert Haralick

Invited Paper

- Some Pattern Recognition Challenges in Data-Intensive Astronomy
  George Djorgovski

1. Bootstrap Methods for Reject Rules of Fisher LDA
   Jigang Xie, Zhengding Qiu, and Jie Wu
2. A Complementary Ordering Method for Class Imbalanced Problem
   Hsien-Ting Cheng and Chu-Song Chen
3. A Minimum Sphere Covering Approach to Pattern Classification
   Jigang Wang, Predrag Neskovic, and Leon N. Cooper

Wed-O-III-2: Super-resolution and Restoration

Room 401, 13:30~15:10, Wednesday, 23/08/06
Chairs: Christoph Lampert, and Hiroyasu Koshimizu

1. String-Like Occluding Region Extraction for Background Restoration
   Toru Tamaki and Hiroshi Suzuki
2. A Conditional Random Field Model for Video Super-Resolution
   Dan Kong, Mei Han, Wei Xu, Hai Tao, and Yihong Gong
3. Extending the Depth of Field in a Compound-Eye Imaging System with Super-Resolution Reconstruction

Wai-San Chan, Edmund Y. Lam, and Michael K. Ng

4. A Regression Model in TensorPCA Subspace for Face Image Super-Resolution Reconstruction
   Junwen Wu and Mohan M. Trivedi
5. Image Renaissance Using Discrete Optimization
   Cédric Allène and Nikos Paragios

Wed-O-IV-2: Gait, Body Pose and Writer Recognition

Room 404/5, 13:30~15:10, Wednesday, 23/08/06
Chairs: Venu Govindaraju, and Paola Campadelli

1. Off-Line Writer Identification Using Gaussian Mixture Models
   Andreas Schlapbach and Horst Bunke
2. Human Identification by Using the Motion and Static Characteristic of Gait
   Toby Lam and Raymond Lee
3. Human Motion De-noising via Greedy Kernel Principal Component Analysis Filtering
   Therdsak Tangkuampien and David Suter
4. Efficient Night Gait Recognition Based on Template Matching
   Daoliang Tan, Kaiqi Huang, Shiqi Yu, and Tieniu Tan
5. Reconstructing 3D Human Body Pose from Stereo Image Sequences Using Hierarchical Human Body Model Learning
   Hee-Deok Yang and Seong-Whan Lee

Wed-O-II-2b: Pattern Matching Methods II

Room 406/7, 13:30~15:10, Wednesday, 23/08/06
Chairs: Conrad Sanderson, and Benson Lam

1. On Authorship Attribution via Markov Chains and Sequence Kernels
   Conrad Sanderson and Simon Guenter
2. Shape Recognition Using Curve Segment Hausdorff Distance
   Xiaozhou Yu and Maylor K.H. Leung
3. Shape-Based Discrimination and Classification of Cortical Surfaces
   Peng Yu, Xiao Han, Florent Ségonne, Arthur K. Liu, Russell A. Poldrack, Polina Golland, and Bruce Fischl
4. Structural Matching via Optimal Basis Graphs
   Fred W. DePiero and John K. Carlin
5. Selecting Vantage Objects for Similarity Indexing
   Reinier H. van Leuken, Remco C. Veltkamp, and Rainer Typke

Wed-P-II-2: Biometrics

Convention Foyer, 13:30~15:10, Wednesday, 23/08/06

1. Feature Extraction with Genetic Algorithms Based Nonlinear Principal Component Analysis for Face Recognition
   Nan Liu and Han Wang
2. Face Recognition by Combining Kernel Associative Memory and Gabor Transforms
   Bai-ling Zhang, Clement Leung, and Yongsheng Gao
3. A Complete and Rapid Feature Extraction Method for Face Recognition
   Yu-jie Zheng, Jing-yu Yang, Jian Yang, Xiao-jun Wu, and Dong-jun Yu
4. Abnormal Walking Gait Analysis Using Silhouette-Masked Flow Histograms
   Liang Wang
5. Enhancing Training Set for Face Detection
   Ruiping Wang, Jie Chen, Shiguang Shan, Xilin Chen, and Wen Gao
6. Complete Two-Dimensional PCA for Face Recognition
   Anbang Xu, Xin Jin, Yugang Jiang, and Ping Guo
7. Transformation Invariance in Hand Shape Recognition
   Thomas Coogan and Alistair Sutherland
8. A Modified Non-Negative Matrix Factorization Algorithm for Face Recognition
   Yun Xue, Chong Sze Tong, Wen-Sheng Chen, Weipeng Zhang, and Zhenyu He
9. 3D+2D Face Localization Using Boosting in Multi-Modal Feature Space
   Feng Xue and Xiaoqing Ding
10. Palmprint Identification Using Boosting Local Binary Pattern
    Xianji Wang, Haifeng Gong, Hao Zhang, Bin Li, Zhenquan Zhuang
11. Sparse Bayesian Regression for Head Pose Estimation
    Yong Ma, Yoshinori Konishi, Koichi Kinoshita, Shihong Lao, and Masato Kawade
12. A Novel Eye Location Algorithm Based on the Radial Symmetry Transform
    Li Bai, Linlin Shen, and Yan Wang
13. Regression Nearest Neighbor in Face Recognition
    Shu Yang and Chao zhang
14. A Neural Network Approach for Hand Gesture Recognition in Virtual Reality Driving Training System of SPG
    Deyou Xu
15. Bagging Based Efficient Kernel Fisher Discriminant Analysis for Face Recognition
    Yi Li, Baochang Zhang, Shiguang Shan, Xilin Chen, and Wen Gao
16. Face Recognition with Relative Difference Space and SVM
    Xiaoguang He, Jie Tian, Yuliang He, and Xin Yang
17. Compound Stochastic Models for Fingerprint Individuality
    Yongfang Zhu, Sarat C. Dass, and Anil K. Jain
18. Facial Expression Recognition Based on Fusion of Multiple Gabor Features
    WeiFeng Liu and ZengFu Wang
19. Facial Feature Selection Based on SVMs by Regularized Risk Minimization
    Weihong Li, Weiguo Gong, Liping Yang, Weimin Chen, and Xiaohua Gu
20. Occlusion Robust Face Recognition with Dynamic Similarity Features
    Qingshan Liu, Wang Yan, Hanqing Lu, and Songde Ma
21. Variational Shift Invariant Probabilistic PCA for Face Recognition
    Jilin Tu, Aleksandar Ivanovic, Xun Xu, Li Fei-Fei, and Thomas Huang

22. The Application of a Convolution Neural Network on Face and License Plate Detection
    Ying-Nong Chen, Chin-Chuan Han, Cheng-Tzu Wang, Bor-Shenn Jeng, and Kuo-Chin Fan
23. Human Activity Classification Based on Gait Energy Image and Co-evolutionary Genetic Programming
    Xiaotao Zou and Bir Bhanu
24. Early Recognition and Prediction of Gestures
    Akihiro Mori, Seiichi Uchida, and Ryo Kurazume
25. An Efficient Face Recognition System Using a New Optimized Localization Method
    Hamidreza Rashidy Kanan, Karim Faez, and Mehdi Ezoji

Wed-P-III-2: Image Processing

Convention Foyer, 13:30~15:10, Wednesday, 23/08/06

27. A Method of Reducing Speckle Noise of SAR Images Based on Wavelets and Wedgelet HMT Models
    Haiyan Jin, Licheng Jiao, and Fang Liu
28. A Novel Blind Watermarking Algorithm in Contourlet Domain
    Haifeng Li, Weiwei Song, and Shuxun Wang
29. Remote Sensing Image Fusion on Gradient Field
    Jianting Wen, Yan Li, and Haifeng Gong
30. Neighbor Pixel Mixture
    Masayuki Tanaka and Masatoshi Okutomi
31. A Digital Watermarking Algorithm and Implementation Based on Improved SVD
    Xinzhong Zhu, Jianmin Zhao, and Huiying Xu
32. Compressed Image Quality Evaluation Using Power Law Models
    Y. Caron, P. Makris, and N. Vincent
33. Determining Optimal Filters for Binarization of Degraded Characters in Color Using Genetic Algorithms
    Hanako Kohmura and Toru Wakahara
34. Automatic Detection of Song Changes in Music Mixes Using Stochastic Models
    Thomas Plötz, Gernot A. Fink, Peter Husemann, Sven Kanies, Kai Lienemann, Tobias Marschall, Marcel Martin, Lars Schillingmann, Matthias Steinrücken, and Henner Sudek
35. A Robust Region-Based Multiscale Image Fusion Scheme for Mis-Registration Problem of Thermal and Visible Images
    O. Charoentam, V. Patanavijit, and S. Jitapunkul
36. A Robust Block-Based Image Watermarking Scheme Using Fast Hadamard Transform and Singular Value Decomposition
    Emad E. Abdallah, A. Ben Hamza, and Prabir Bhattacharya
37. Accelerating the Computation of 3D Gradient Vector Flow Fields
    Erik Vidholm, Per Sundqvist, and Ingela Nyström
38. Optimal Global Mosaic Generation from Retinal Images
    Tae Eun Choe, Isaac Cohen, Munwai Lee, and Gérard Medioni

39. Simple and Efficient Colorization in YCbCr Color Space
    Hideki Noda, Michiharu Niimi, and Jin Korekuni
40. Planar Structure Based Registration of Multiple Range Images
    Daiju Watanabe and Hideo Saito
41. 3D Object Digitization: Topology Preserving Reconstruction
    Peer Stelldinger and Longin Jan Latecki
42. Multi-Modality Image Registration Using Mutual Information Based on Gradient Vector Flow
    Yujun Guo and Cheng-Chang Lu
43. Vector Quantization Using Reflections of Triangular Subcodevectors
    Vishnu Makkapati and Pravas Mahapatra
44. Colony Delineation on Image Classification
    Weixing Wang
45. Removing Temporal Stationary Blur in Route Panorama
    Jiang Yu Zheng and Min Shi
46. Fingerprint Image Enhancement Based on Skin Profile Approximation
    Zhixin Shi and Venu Govindaraju
47. Combining Adaptive PDE and Wavelet Shrinkage in Image Denoising with Edge Enhancing Property
    Jiying Wu and Qiuqi Ruan
48. Scanner Artifact Removal in Simultaneous EEG-fMRI for Epileptic Seizure Prediction
    Min Jing and Saeid Sanei
49. Adaptive Persistence Utilizing Motion Compensation for Ultrasound Images
    Gang Wang and Dong C. Liu
50. Accurate 3-D Motion Tracking with an Application to Super-Resolution
    Ying Kin Yu, Siu Hang Or, Kin Hong Wong, and Michael Chang
51. YUV Correction for Multi-View Video Compression
    Yushan Chen, Canhui Cai, and Jilin Liu
52. Lie Methods in Color Signal Processing: Illumination Effects
    Reiner Lenz and Martin Solli
53. Adaptive Binarization of Historical Document Images
    Ergina Kavallieratou and Stamatatos Stathis
54. QIM Watermarking Combined to JPEG2000 Part I and II
    Achraf Makhloufi, Azza Ouled Zaid, Ridha Boualleg, Ammar Boualleg
55. Human and Object Detection in Smoke-Filled Space Using Millimeter-Wave Radar Based Measurement System
    Masaki Sakai and Yoshimitsu Aoki
56. Wide-Baseline Image Mosaicing for Indoor Environments
    Qi Zhi and Jeremy R. Cooperstock
57. Wavelet Denoising of Multicomponent Images, Using a Gaussian Scale Mixture Model
    Paul Scheunders and Steve De Backer
58. Multiple Regions of Interest Image Coding using Compensation Scheme and Alternating Shift

Li-bao Zhang and Xian-chuan Yu

59. Probabilistic Automatic Red Eye Detection and Correction
Jutta Willamowski and Gabriela Csurka
60. Iterative Image Restoration Using a Non-Local Regularization Function and a Local Regularization Operator
Feng Xue, Quan-sheng Liu, and Wei-hong Fan
61. Super-Resolution in the Presence of Space-Variant Blur
K.V. Suresh and A.N. Rajagopalan
62. Correction of Intensity of a Color Image Using a Range Intensity Image
Megumi Shinozaki, Kazunori Umeda, Guy Godin, and Marc Rioux
63. Adaptive Variational Sinogram Interpolation of Sparsely Sampled CT Data
H. Köstler, M. Prümmer, U. Rüde, and J. Hornegger
64. A New Efficient SVM-Based Image Registration Method
DaiQiang Peng, DingXue Wu, and JinWen Tian
65. Adaptive Region Growing Impulse Noise Estimator for Color Images
Mieng Quoc Phu, Peter Eric Tischer, and Hon Ren Wu
66. Stochastic Framework for Symmetric Affine Matching between Point Sets
Sai Kit Yeung and Pengcheng Shi
67. Winner Update on Walsh-Hadamard Domain for Fast Motion Estimation
Shao-Wei Liu, Shou-Der Wei, and Shang-Hong Lai
68. Bijective Image Registration Using Thin-Plate Splines
Anders P. Eriksson and Kalle Åström
69. A Secret Image Sharing Method Using Integer-to-Integer Wavelet Transform
Chin-Pan Huang and Ching-Chung Li
70. Lossless Compression of Textual Images: A Study on Indic Script Documents
Utpal Garain, M. P. Chakraborty, and Bhabatosh Chanda
71. Object Removal by Cross Isophotes Exemplar-Based Inpainting
Jiying Wu and Qiuqi Ruan
72. Knowledge Based Image Enhancement Using Neural Networks
Claudia Nieuwenhuis and Michelle Yan
73. Simultaneous Image Denoising and Compression by Multiscale 2D Tensor Voting
Yu-Wing Tai, Wai-Shun Tong, and Chi-Keung Tang
74. Image Analysis of Renal DCE-MRI for the Detection of Acute Renal Rejection
Ayman El-Baz, Aly Farag, Rachid Fahmi, and Seniha Yuksela
75. Human Head Tracking in Three Dimensional Voxel Space
Haruki Kawanaka, Hironobu Fujiyoshi, and Yuji Iwahori

Wed-O-I-3a: Tracking

Hall B/C, 15:40~17:40, Wednesday, 23/08/06
Chairs: Denis Laurendeau, and Robert Fisher

1. Robust Visual Tracking via Pixel Classification and Integration
Cha Zhang and Yong Rui
2. A Target Dependent Colorspace for Robust Tracking
Francesc Moreno-Noguer, Alberto Sanfeliu, and Dimitris Samaras

3. Robust Appearance-Based Tracking Using a Sparse Bayesian Classifier
   Shu-Fai Wong, Kwan-Yee Kenneth Wong, and Roberto Cipolla
4. Multiple Human Objects Tracking in Crowded Scenes
   Yao-Te Tsai, Huang-Chia Shih, and Chung-Lin Huang
5. Multi-User Natural Interaction System Based on Real-Time Hand Tracking and Gesture Recognition
   Alberto Del Bimbo, Lea Landucci, and Alessandro Valli
6. Efficient Tracking in 6-DoF Based on the Image-Constancy Assumption in 3-D
   Wolfgang Sepp

Wed-O-II-3a: Pattern Classification II

Hall A, 15:40~17:40, Wednesday, 23/08/06
Chairs: Robert Haralick, and Tin Kam Ho

Invited Paper

- Invariants for 2D and 3D Pattern Recognition Problems - New Results for a Classical Problem
  Hans Burkhardt

1. A Ground Truth Correspondence Measure for Benchmarking
   Johan Karlsson and Anders Ericsson
2. Gaussian Weighted Histogram Intersection for License Plate Classification
   Wenjing Jia, Huaifeng Zhang, Xiangjian He, and Qiang Wu
3. ECOC-ONE: A Novel Coding and Decoding Strategy
   Sergio Escalera, Oriol Pujol, and Petia Radeva
4. Enhancing Edit Distance on Real Sequences Filters Using Histogram Distance on Fixed Reference Ordering
   Prima Chairunnanda, Vivekanand Gopalkrishnan, and Lei Chen

Wed-O-I-3b: Video Analysis and Tracking

Room 401, 15:40~17:40, Wednesday, 23/08/06
Chairs: Svetha Venkatesh, and Anders Heyden

1. Video Completion for Perspective Camera Under Constrained Motion
   Yuping Shen, Fei Lu, Xiaochun Cao, and Hassan Foroosh
2. Video Local Pattern Based Image Matching for Visual Mapping
   Lei Wang, Hongdong Li, and Richard Hartley
3. Video Synchronization Based on Co-Occurrence of Appearance Changes in Video Sequences
   Manabu Ushizaki, Takayuki Okatani, and Kochiro Deguchi
4. Robust Segmentation of Hidden Layers in Video Sequence
   Romain Dupont, Olivier Juan, and Renaud Keriven
5. Multiple Object Tracking Using Local PCA
   Csaba Beleznai, Bernhard Frühstück, and Horst Bischof
6. Discriminative Descriptor-Based Observation Model for Visual Tracking

Wen-Yan Chang, Chu-Song Chen, and Yi-Ping Hung

Wed-O-IV-3: Automation and Robotics

Room 404/5, 15:40~17:40, Wednesday, 23/08/06
Chairs: Aytul Ercil, and Hyeran Byun

1. Hand-Eye Calibration Based on Screw Motions
   Zijian Zhao and Yuncai Liu
2. Monocular Vision Based SLAM for Mobile Robots
   E. Mouragnon, M. Lhuillier, M. Dhome, F. Dekeyser, and P. Sayd
3. Online Aggregate Particle Size Measurement on a Conveyor Belt
   Weixing Wang
4. A Texture Based Matching Approach for Automated Assembly of Puzzles
   Mahmut Şamil Sağıroğlu and Aytül Erçil
5. A Fast Detector of Line Images Acquired by an Uncalibrated Paracatadioptric Camera
   Bertrand Vandeportaele, Michel Cattoen, and Philippe Marthon

Wed-O-II-3b: Multimodal Recognition

Room 406/7, 15:40~17:40, Wednesday, 23/08/06
Chairs: Tieniu Tan, and David Zhang

1. Face Recognition Using Angular LDA and SVM Ensembles
   R.S. Smith, J. Kittler, M. Hamouz, and J. Illingworth
2. A Multimodal and Multistage Face Recognition Method for Simulated Portrait
   Guangda Su, Yan Shang, Cheng Du, and Junyan Wang
3. Performance Prediction for Multimodal Biometrics
   Rong Wang and Bir Bhanu
4. Ensemble of Piecewise FDA Based on Spatial Histograms of Local (Gabor) Binary Patterns for Face Recognition
   Shiguang Shan, Wenchao Zhang, Yu Su, Xilin Chen, and Wen Gao
5. Comparative Analysis of Decision-Level Fusion Algorithms for 3D Face Recognition
   Berk Gökberk and Lale Akarun

Wed-P-III-3: Signal Processing

Convention Foyer, 15:40~17:40, Wednesday, 23/08/06

1. The Classification Gradient
   Vassili Kovalev and Maria Petrou
2. Gender Recognition in Non Controlled Environments
   Àgata Lapedrizay, Manuel Marín-Jiménez, and Jordi Vitrià
3. Laplacian Based Non-Linear Diffusion Filtering
   Haruhiko Nishiguchi, Atsushi Imiya, and Tomoya Sakai

4. Microarray Missing Data Imputation Based on a Set Theoretic Framework and Biological Constraints
   Xiangchao Gan, Alan Wee-Chung Liew, and Hong Yan
5. A Method for IR Point Target Detection Based on Spatial-Temporal Bilateral Filter
   Jihong Pei, Zongqing Lu, and Weixin Xie
6. Efficient Non-Maximum Suppression
   Alexander Neubeck and Luc Van Gool
7. Multi-Orientation Analysis by Decomposing the Structure Tensor and Clustering
   L.J. van Vliet and F.G.A. Faas
8. Digital Watermarking in Contourlet Domain
   Jayalakshmi M., S. Merchant, and Uday Desai
9. OK-Quantization Theory -- A Mathematical Theory of Quantization
   Hiroyasu Koshimizu, Yuji Tanaka, and Takayuki Fujiwara
10. A Theoretical and Experimental Consideration on Interference in Resolutions between Sampling Theorem and OK-Quantization Theory
    Yuji Tanaka, Takayuki Fujiwara, Hiroyasu Koshimizu, and Taizo Iijima
11. An Efficient Algorithm for Point Matching Using Hilbert Scanning Distance
    Li Tian and Sei-ichiro Kamata
12. Multimodal Image Registration Using the Discrete Wavelet Frame Transformation
    Shutao Li, Jinglin Peng, James Kwok, and Jing Zhang
13. Automatic Lipreading with Limited Training Data
    S.L. Wang, W.H. Lau, A. W. C. Liew, and S.H. Leung
14. A New Adaptive Diffusion Equation for Image Noise Removal and Feature Preservation
    Shoushui Chen and Xin Yang
15. Uncertainties-Driven Surface Morphing: The Case of Photo-Realistic Transitions between Facial Expressions
    Maxime Taron, Charlotte Ghys, and Nikos Paragios
16. Medical Image Compression: Study of the Influence of Noise on the JPEG 2000 Compression Performance
    Ahmed Belbachir and Peter Goebel
17. Superimposing 3D Virtual Objects Using Markerless Tracking
    Sang-Cheol Park, Sang-Woong Lee, and Seong-Whan Lee
18. A Method for Crack Detection on a Concrete Structure
    Yusuke Fujita, Yoshihiro Mitani, and Yoshihiko Hamamoto
19. Joint Optimization of Image Registration and Comparametric Exposure Compensation Based on the Lucas-Kanade Algorithm
    Dong Sik Kim, Su Yeon Lee, and Kiryung Lee
20. A New Approach for Fractal Image Compression on a Virtual Hexagonal Structure
    Huaqing Wang, Xiangjian He, Qiang Wu, and Tom Hintz
21. Age Simulation for Face Recognition
    Junyan Wang, Yan Shang, Guangda Su, and Xinggang Lin
22. Probabilistic Modeling of Blood Vessels for Segmenting MRA Images
    Ayman El-Baz, Aly Farag, Georgy Gimel'farb, Mohamed El-Ghar, and Tarek Eldiasty

23. Multiplierless Fast DCT Algorithms with Minimal Approximation Errors
    Raymond Chan and Moon-Chuen Lee
24. Detecting Irregularities in Regular Patterns
    J. Vartiainen, A. Sadovnikov, L. Lensu, J.K. Kamarainen, and H. Kälviäinen
25. Toward Blind Robust Watermarking of Vector Maps
    Yu-Chi Pu, Wei-Chang Du, and I-Chang Jou
26. Region of Interest Watermarking Based on Fractal Dimension
    Rongrong Ni and Qiuqi Ruan
27. Normalization of Functional Magnetic Resonance Images by Classified Cerebrospinal Fluid Cluster
    Zhenghui Hu and Pengcheng Shi
28. Searching for Similarities in Nearly Periodic Signals with Application to ECG Data Compression
    J. Henriques, M. Brito, P. Gil, P. Carvalho, and M. Antunes
29. Automatic Hip Bone Segmentation Using Non-Rigid Registration
    Johanna Pettersson, Hans Knutsson, and Magnus Borga
30. Triangular Mesh Generation of Octrees of Non-Convex 3D Objects
    Dongjoe Shin and Tardi Tjahjadi
31. Motion Dependent Spatiotemporal Smoothing for Noise Reduction in Very Dim Light Image Sequences
    Henrik Malm and Eric Warrant
32. Multiple Camera Calibration with Bundled Optimization Using Silhouette Geometry Constraints
    Hirotake Yamazoe, Akira Utsumi, and Shinji Abe
33. Hippocampal Surface Analysis Using Spherical Harmonic Function Applied to Surface Conformal Mapping
    Boris Gutman, Yalin Wang, Lok Ming Lui, Tony F. Chan, and Paul M. Thompson
34. Benefits of Separable, Multilinear Discrimant Classification
    Christian Bauckhage and Thomas Käster
35. A Global Geometric Approach for Image Clustering
    Sulan Zhang, Chunqi Shi, Zhiyong Zhang, and Zhongzhi Shi
36. Patterns of Co-Linear Equidistant Letter Sequences and Verses
    Nachum Bombach and Harold Gans

Wed-P-IV-3: Sensors, Systems & Algorithms, Mobile Robots, Surveillance and Biometrics

Convention Foyer, 15:40~17:40, Wednesday, 23/08/06

37. Real-Time Spherical Stereo
    Shigang Li
38. A Pattern Recognition Scheme for Distributed Denial of Service (DDoS) Attacks in Wireless Sensor Networks
    Z. Baig, M. Baqer, and A. Khan
39. A New Set of Topology Preserving Removal Operations in the 3D Space
    Carlo Arcelli, Gabriella Sanniti di Baja, and Luca Serino

40. Motion Features from Lip Movement for Person Authentication
    Maycel Faraj and Josef Bigun
41. Real-time Localization in Outdoor Environments Using Stereo Vision and Inexpensive GPS
    Motilal Agrawal and Kurt Konolige
42. A Split & Merge Approach to Metric-Topological Map-Building
    Jochen Schmidt, Chee Wong, and Wai Yeap
43. Kalman Filtering for Robust Identification of Face Images with Varying Expressions and Lighting Conditions
    Horst Eidenberger
44. Using Extended EM to Segment Planar Structures in 3D
    Rolf Lakaemper and Longin Jan Latecki
45. Physics-Based Fusion of Multispectral Data for Improved Face Recognition
    Hong Chang, Andreas Koschan, Besma Abidi, and Mongi Abidi
46. Learning a Sparse Representation from Multiple Still Images for On-Line Face Recognition in an Unconstrained Environment
    Johan Tangelder and Ben Schouten
47. A Moving Object Tracked by a Mobile Robot with Real-Time Obstacles Avoidance Capacity
    Chung-Hao Chen, Chang Cheng, David Page, Andreas Koschan, and Mongi Abidi
48. Scheduling of Image Processing Using Anytime Algorithm for Real-Time System
    Wyne Wyne Kywe, Daisuke Fujiwara, and Kazuhito Murakami
49. An Experimental Study on Automatic Face Gender Classification
    Zhiguang Yang, Ming Li, and Haizhou Ai
50. Tensor Voting Accelerated by Graphics Processing Units (GPU)
    Changki Min and Gérard Medioni
51. Blind Image Steganalysis Based on Statistical Analysis of Empirical Matrix
    Xiaochuan Chen, Yunhong Wang, Tieniu Tan, and Lei Guo
52. GMM-Based SVM for Face Recognition
    Hervé Bredin, Najim Dehak, and Gérard Chollet
53. Omnidirectional Vision Tracking with Particle Filter
    Jaime Ortegon-Aguilar and Eduardo Bayro-Corrochano
54. Face Recognition by Expression-Driven Sketch Graph Matching
    Zijian Xu and Jiebo Luo
55. Multiply-View-Based Cooperative Tracking of Multiple Human Objects in Cluttered Scenes
    Kuo-Chin Lien and Chung-Lin Huang
56. Tracking a Variable Number of Human Groups in Video Using Probability Hypothesis Density
    Ya-Dong Wang, Jian-Kang Wu, Ashraf Kassim, and Wei-Min Huang
57. A Similarity Measure Based on Hausdorff Distance for Human Face Recognition
    Yuankui Hu and Zengfu Wang
58. Comparison of Similarity Measures for Trajectory Clustering in Outdoor Surveillance Scenes

Zhang Zhang, Kaiqi Huang, and Tieniu Tan
59. Face Recognition under Varying Lighting Based on the Probabilistic Model of Gabor Phase
Laiyun Qing, Shiguang Shan, Xilin Chen, and Wen Gao
60. Finding Symmetry Plane of 3D Face Shape
Gang Pan, Yueming Wang, Yipeng Qi, and Zhaohui Wu
61. A Low-Dimensional Illumination Space Representation of Human Faces for Arbitrary Lighting Conditions
Yuankui Hu and Zengfu Wang
62. Automatic Texture Synthesis for Face Recognition from Single Views
Xiaozheng Zhang, Yongsheng Gao, and Maylor Leung
63. A Real-Life Test of Face Recognition System for Dialogue Interface Robot in Ubiquitous Environments
Fumihiko Sakaue, Makoto Kobayashi, Tsuyoshi Migita, and Takeshi Shakunaga
64. Unusual Event Detection via Multi-Camera Video Mining
Hanning Zhou and Don Kimber
65. Robust Vehicle Detection Based on Shadow Classification
Daeho Lee and Youngtae Park
66. Real-Time Detection of Anomalous Objects in Dynamic Scene
Satoshi Kawabata, Shinsaku Hiura, and Kosuke Sato
67. A Comparison of Pixel, Edge and Wavelet Features for Face Detection Using a Semi-Naive Bayesian Classifier
Ross Beveridge, Jilmil Saraf, and Ben Randall
68. ViSE: Visual Search Engine Using Multiple Networked Cameras
U. Park, A.K. Jain, I. Kitahara, K. Kogure, and N. Hagita
69. Face Reconstruction with Low Resolution Facial Images by Feature Vector Projection in Kernel Space
Sang-Woong Lee, Jooyoung Park, and Seong-Whan Lee
70. 3D Face Recognition Using Normal Sphere and General Fourier Descriptor
Andrea Abate, Michele Nappi, Daniel Riccio, and Gabriele Sabatino
71. A Viewpoint Invariant Approach for Crowd Counting
Dan Kong, Doug Gray, and Hai Tao
72. Face Alignment Using Segmentation and Combined AAM in a PTZ Camera
Kwontaeg Choi, Jung-Ho Ahn, and Hyeran Byun
73. New Experiments on ICP-Based 3D Face Recognition and Authentication
Boulbaba Ben Amor, Mohsen Ardabilian, and Liming Chen
74. Improving Evidential Quality of Surveillance Imagery through Active Face Tracking
Andrew Bagdanov, Alberto del Bimbo, and Walter Nunziati
75. Simultaneous Inference of View and Body Pose Using Torus Manifolds
Chan-Su Lee and Ahmed Elgammal
76. Hidden Markov Models for Optical Flow Analysis in Crowds
Ernesto Andrade, Scott Blunsden, and Robert Fisher

Thursday Morning, 24 August 2006

Plenary Session:

Hall B/C, 09:00~10:00, Thursday, 24/08/06
What are Classifier Ensembles Good for Anyway and How Would You Know?
Lawrence O. Hall, University of South Florida
Chair: Daniel Yeung

Thu-O-I-1a: Range Data Analysis

Hall B/C, 10:30~12:30, Thursday, 24/08/06
Chairs: Vaclav Hlavac, and Laurent Heutte

1. Accurate 3D Scanning of Swaying Human Body Parts by One Projection Based on OIMP Technique
   Cunwei Lu and Genki Cho
2. Recognition of Building Roof Facets by Merging Aerial Images and 3D Lidar Data in a Hierarchical Segmentation Framework
   Frédéric Bretar, Marc Pierrot-Deseilligny, and Michel Roux
3. Multimodal Range Image Segmentation by Curve Grouping
   Michal Haindl and Pavel Žid
4. Discontinuity-Based Simplification of Free Form Surface from a Range Image
   Guoqiang Fei, Yonghuai Liu, Baogang Wei, and Longzhuang Li
5. Flag Guided Integration of Multiple Registered Range Images
   Hong Zhou and Yonghuai Liu
6. Adaptive Feature Integration for Segmentation of 3D Data by Unsupervised Density Estimation
   Marco Cristani, Umberto Castellani, and Vittorio Murino

Thu-O-II-1a: Pattern Classification III

Hall A, 10:30~12:30, Thursday, 24/08/06
Chairs: Mehmet Celenk, and Terry Windeatt

1. Linear Model Combining by Optimizing the Area under the ROC Curve
   David M.J. Tax, Robert P.W. Duin, and Yulia Arzhaeva
2. Precision-Recall Operating Characteristic (P-ROC) Curves in Imprecise Environments
   Thomas C.W. Landgrebe, Pavel Paclík, Robert P.W. Duin, and Andrew Bradley
3. Reliable Video Clock Time Recognition
   Yiqun Li, Changsheng Xu, Kong Wah Wan, Xin Yan, and Xinguo Yu
4. Metric Tree Partitioning and Taylor Approximation for Fast Support Vector Classification
   Thang V. Pham and Arnold W.M. Smeulders
5. Robust Multiclass Ensemble Classifiers via Symmetric Functions

Patrice Lefaucheur and Richard Nock

6. Mixing Spectral Representations of Graphs
   David White and Richard Wilson

Thu-O-I-1b: Texture Analysis

Room 401, 10:30~12:30, Thursday, 24/08/06
Chairs: Robert Haralick, and Maria Petrou

1. Fast Synthesis of Dynamic Colour Textures
   Jiří Filip, Michal Haindl, and Dmitry Chetverikov
2. Multiscale Blob Features for Gray Scale, Rotation, and Spatial Scale Invariant Texture Classification
   Qi Xu and Yan Qiu Chen
3. Separability-Based Kullback Divergence Weighting and Filter Selection for Texture Classification and Segmentation
   I. Karoui, Ronan Fablet, and J.M. Bouche
4. 3D Texture Classification Using the Belief Net of a Segmentation Tree
   Sinisa Todorovic and Narendra Ahuja

Thu-O-IV-1: Smart Sensors

Room 404/5, 10:30~12:30, Thursday, 24/08/06
Chairs: J. K. Aggarwal, and Xiaoqing Ding

Invited Paper

- Challenges for Data Mining in Distributed Senor Networks
  Virginio Cantonii

1. Full-View Spherical Image Camera
   Shigang Li
2. Video Mosaicing for Curved Documents Based on Structure from Motion
   Akihiko Iketani, Masayuji Kanbara, Yomokazu Sata, Noboru Nakajima, Sei Ikeda, and Naokazu Yokoya
3. Motion-Based Handwriting Recognition for Mobile Interaction
   Jari Hannuksela, Pekka Sangi, and Janne Heikkilä

Thu-O-II-1b: Finger, Palm and Iris Recognition

Room 406/7, 10:30~12:30, Thursday, 24/08/06
Chairs: Vijay Kumar, and Massimo Tistarelli

1. Multiscale Feature Extraction of Finger-Vein Patterns Based on Curvelets and Local Interconnection Structure Neural Network
   Zhongbo Zhang, Siliang Ma, and Xiao Han
2. Analysis and Improvement of an Iris Identification Algorithm
   Peng Yao, Jun Li, Xueyi Ye, Zhenquan Zhuang, and Bin Li

3. Iris Localization via Pulling and Pushing
   Zhaofeng He, Tieniu Tan, and Zhenan Sun
4. Hierarchical Identification of Palmprint Using Line-Based Hough Transform
   Fang Li and Maylor K.H. Leung
5. Cancelable Biometrics: A Case Study in Fingerprints
   Nalini Ratha, Jonathan Connell, Ruud M. Bolle, and Sharat Chikkerur
6. A Novel Fingerprint Matching Scheme Based on Local Structure Compatibility
   Yansong Feng, Jufu Feng, Xiaoguang Chen, and Zhen Song

Thu-P-III-1: Audio and Video Processing

Convention Foyer, 10:30~12:30, Thursday, 24/08/06

1. Multi-SNR GMMs-Based Noise-Robust Speaker Verification Using 1/fα Noises
   Liping Yang and Weiguo Gong
2. Multi-lingual Phoneme Recognition and Language Identification Using Phonotactic Information
   Liang Wang, Eliathamby Ambikairajah, and Eric H.C. Choi
3. Unifying Background Models over Complex Audio Using Entropy
   Simon Moncrieff, Svetha Venkatesh, and Geoff West
4. Combining Cepstral and Prosodic Features in Language Identification
   Bo Yin, Eliathamby Ambikairajah, and Fang Chen
5. Switching Auxiliary Chains for Speech Recognition Based on Dynamic Bayesian Networks
   Hui Lin and Zhijian Ou
6. LDV Remote Voice Acquisition and Enhancement
   Weihong Li, Ming Liu, Zhigang Zhu, and Thomas S. Huang
7. Speaker Verification Using a Novel Set of Dynamic Features
   Mohaddeseh Nosratighods, Eliathamby Ambikairajah, and Julien Epps
8. NDFT-Based Audio Watermarking Scheme with High Security
   Ling Xie, Jia-shu Zhang, and Hong-jie He
9. Intelligibility of Children with Cleft Lip and Palate: Evaluation by Speech Recognition Techniques
   Andreas Maier, Christian Hacker, Elmar Nöth, Emeka Nkenke, Tino Haderlein, Frank Rosanowski, and Maria Schuster
10. Speech Separation from Background of Music Based on Single-channel Recording
    Xue-Cheng Jin and Zeng-fu Wang
11. Phoneme Segmentation of Speech
    Bartosz Ziółko, Suresh Manandhar, and Richard C. Wilson
12. A Noise Robust Front-end for Speech Recognition Using Hough Transform and Cumulative Distribution Mapping
    Eric H.C. Choi
13. A Bayesian Predictive Method for Automatic Speech Segmentation
    Ming Liu and Thomas S. Huang
14. Efficient Gaussian Mixture for Speech Recognition
    Leila Zouari and Gérard Chollet

15. A Two-level Method for Unsupervised Speaker-Based Audio Segmentation
    Shilei Zhang, Shuwu Zhang, and Bo Xu
16. Classification of Audio Signals in All-Night Sleep Studies
    Wen-Hung Liao and Yi-Syuan Su
17. Directly Modeling of Correlation Matrices for GMM in Speaker Identification
    Zhiqiang Yao, Xi Zhou, Beiqian Dai, Minghui Liu, and Yanlu Xie
18. Improved Two-stage Wiener Filter for Robust Speaker Identification
    Yanlu Xie, Minghui Liu, Zhiqiang Yao, and Beiqian Dai
19. A New Hybrid GMM/SVM for Speaker Verification
    Minghui Liu, Yanlu Xie, Zhiqiang Yao, and Beiqian Dai
20. An UBM-Based Reference Space for Speaker Recognition
    Zhenchun Lei, Yingchun Yang, and Zhaohui Wu
21. Real-time Sound Source Localization Based on Audiovisual Frequency Integration
    Tokuo Tsuji, Kenkichi Yamamoto, and Idaku Ishii
22. Mixture of Support Vector Machines for HMM Based Speech Recognition
    Sven E. Krüger, Martin Schafföner, Marcel Katz, Edin Andelic, and Andreas Wendemuth
23. Estimating the Optimal Quantization Parameter in H.264
    László Czúni, Gergely Császár, and Attila Licsár
24. A Fast Mode Decision Method for H.264/AVC Using the Spatial-Temporal Prediction Scheme
    Cheng-Chang Lien and Chung-Ping Yu
25. High-resolution Video Generation Using Morphing
    Hajime Nagahara, Toru Matsunobu, Yoshio Iwai, Masahiko Yachida, and Toshiya Suzuki
26. Super-resolution Restoration of Facial Images in Video
    Jiangang Yu and Bir Bhanu
27. A Psychoanalytical Adaptive Model for Video Analysis
    N. Ghosh and B. Bhanu
28. Reconstruction of 3D Face Model from Single Shading Image Based on Anatomical Database
    Kaori Yoshiki, Hideo Saito, and Masaaki Mochimaru
29. Real-Time Multi-View Face Detection and Pose Estimation in Video Stream
    Yan Wang, Yanghua Liu, Linmi Tao, and Guangyou Xu
30. Novel DCT and DWT Based Watermarking Techniques for Digital Images
    Shikha Tripathi, R.C. Jain, and V. Gayatri

Thu-P-IV-1: Biometrics

Convention Foyer, 10:30~12:30, Thursday, 24/08/06

31. Fingerprint Minutiae Matching Based on Coordinate System Bank and Global Optimum Alignment
    Wei Wang, Jianwei Li, and Weimin Chen
32. A Method for the Identification of Noisy Regions in Normalized Iris Images
    Hugo Proença and Luís A. Alexandre

33. A Hierarchical Palmprint Identification Method Using Hand Geometry and Grayscale Distribution Features
    Jie Wu and Zhengding Qiu
34. Fingerprint Registration Using Minutia Clusters and Centroid Structure
    DeQun Zhao, Fei Su, and Anni Cai
35. Fingerprint Matching With Rotation-Descriptor Texture Features
    Zhengyu Ouyang, Jianjiang Feng, Fei Su, and Anni Cai
36. A Shunting Inhibitory Convolutional Neural Network for Gender Classification
    Fok Hing Chi Tivive and Abdesselam Bouzerdoum
37. A Novel Human Gait Recognition Method by Segmenting and Extracting the Region Variance Feature
    Yanmei Chai, Qing Wang, Jingping Jia, and Rongchun Zhao
38. An Anatomy of IrisCode for Precise Phase Representation
    Adams Kong, David Zhang, and Mohamed Kamel
39. Fingerprint Indexing Using Ridge Invariants
    Jianjiang Feng and Anni Cai
40. Ear Recognition by means of a Rotation Invariant Descriptor
    Andrea F. Abate, Michele Nappi, Daniel Riccio, and Stefano Ricciardi
41. A Framework for Evaluating the Effect of View Angle, Clothing and Carrying Condition on Gait Recognition
    Shiqi Yu, Daoliang Tan, and Tieniu Tan
42. Does EigenPalm Work? A System and Evaluation Perspective
    King-Hong Cheung, Adams Kong, David Zhang, Mohamed Kamel, and Jane You
43. Estimation of User Specific Parameters in One-Class Problems
    Sylvain Hocquet, Jean-Yves Ramel, and Hubert Cardot
44. Gait Recognition Using Fractal Scale and Wavelet Moments
    Guoying Zhao, Li Cui, Hua Li, and Matti Pietikäinen
45. Kernel Fisher Discriminant Analysis for Palmprint Recognition
    Yanxia Wang and Qiuqi Ruan
46. Iris Recognition Algorithm Using Modified Log-Gabor Filters
    Peng Yao, Jun Li, Xueyi Ye, Zhenquan Zhuang, and Bin Li
47. Biometric Identification of Mice
    Kenneth Nilsson, Thorsteinn Rögnvaldsson, Jens Cameron, and Christina Jacobson
48. Multi-View Active Shape Model with Robust Parameter Estimation
    Li Zhang and Haizhou Ai
49. Quality-Based Score Level Fusion in Multibiometric Systems
    Karthik Nandakumar, Yi Chen, Anil K. Jain, and Sarat C. Dass
50. Pores and Ridges: Fingerprint Matching Using Level 3 Features
    Anil Jain, Yi Chen, and Meltem Demirkus
51. Robust Eye Detection under Active Infrared Illumination
    Shuyan Zhao and Rolf-Rainer Grigat
52. Fingerprint Representation and Matching in Ridge Coordinate System
    Jianjiang Feng and Anni Cai
53. Iris Recognition Based on DLDA

Chengqiang Liu and Mei Xie
54. Multi-Biometrics Fusion for Identity Verification
Chang Shu and Xiaoqing Ding
55. The New Focal Point Localization Algorithm for Fingerprint Registration
Vutipong Areekul, Kittiwat Suppasriwasuseth, and Suksan Jirachawang
56. Ear Recognition Using Improved Non-Negative Matrix Factorization
Li Yuan, Zhi-chun Mu, Yu Zhang, and Ke Liu
57. Automatic Iris Segmentation Based on Local Areas
GuangZhu Xu, ZaiFeng Zhang, and YiDe Ma
58. Off-line Signature Verification Based on the Modified Direction Feature
Stephane Armand, Michael Blumenstein, and Vallipuram Muthukkumarasamy
59. Cryptographic Key Generation from Biometric Data Using Lattice Mapping
Gang Zheng, Wanqing Li, and Ce Zhan
60. An Off-line Chinese Writer Retrieval System Based on Text-sensitive Writer Identification
Xin Li, Xianliang Wang, and Xiaoqing Ding
61. Fingerprint Representation Using Localized Texture Features
Sharat Chikkerur, Sharath Pankanti, Alan Jea, Nalini Ratha, and Ruud Bolle
62. Fingerprint Matching Method Using Minutiae Clustering and Warping
Dongjin Kwon, Il Dong Yun, Duck Hoon Kim, and Sang Uk Lee
63. Feature Fusion of Face and Gait for Human Recognition at a Distance in Video
Xiaoli Zhou and Bir Bhanu
64. Hipprint Person Identification and Behavior Analysis
Masafumi Yamada, Mineichi Kudo, Hidetoshi Nonaka, and Jun Toyama
65. Biometrics Based Asymmetric Cryptosystem Design Using Modified Fuzzy Vault Scheme
Abhishek Nagar and Santanu Chaudhury
66. Fusion of Chaotic Measure into a New Hybrid Face-Gait System for Human Recognition
Tracey K.M. Lee, Surendra Ranganath, and Saeid Sanei
67. Iris Recognition with Multi-Scale Edge-Type Matching
Chia-Te Chou, Sheng-Wen Shih, Wen-Shiung Chen, and Victor W. Cheng
68. Combining Fingerprint, Palmprint and Hand-Shape for User Authentication
Ajay Kumar and David Zhang
69. Iris Localization with Dual Coarse-to-Fine Strategy
Xinhua Feng, Chi Fang, Xiaoqing Ding, and Youshou Wu
70. Key Techniques and Methods for Imaging Iris in Focus
Yuqing He, Jiali Cui, Tieniu Tan, and Yangsheng Wang
71. Evaluation of 3D Facial Feature Selection for Individual Facial Model Identification
Yi Sun and Lijun Yin
72. Minutiae-Based Fingerprint Matching Using Subset Combination
Lifeng Sha, Feng Zhao, and Xiaoou Tang
73. Contact Lens Extraction by Using Thermo-Vision
Wyne Wyne Kywe, Masashi Yoshida, and Kazuhito Murakami

74. Using Signal/Residual Information of Eigenfaces for PCA Face Space Dimensionality Characteristics
    M. Anouar Mellakh, Dijana Petrovska-Delacrétaz, and Bernadette Dorizzi
75. A Robust and Accurate Segmentation of Iris Images Using Optimal Partitioning
    A. Zaim, M. Quweider, J. Scargle, J. Iglesias, and R. Tang
76. Template Adaptation Based Fingerprint Verification
    Choonwoo Ryu, Hakil Kim, and Anil K. Jain
77. Finding Gait in Space and Time
    Yang Ran, Rama Chellappa, and Qinfen Zheng
78. A Fusion Methodology Based on Dempster-Shafer Evidence Theory for two Biometric Applications
    M. Arif, T. Brouard, and N. Vincent
79. Singular Point Detection in Fingerprints Using Quadrant Change Information
    Krzysztof Kryszczuk and Andrzej Drygajlo

Thursday Afternoon, 24 August 2006

Thu-O-I-2a: Image Segmentation I

Hall B/C, 13:30~15:10, Thursday, 24/08/06
Chairs: Dmitry Goldgof, and Kalvianinen Heikki

1. Self-Validated and Spatially Coherent Clustering with Net-Structured MRF and Graph Cuts
   Wei Feng and Zhi-Qiang Liu
2. Object Localization/Segmentation Using Generic Shape Priors
   Michael Fussenegger, Andreas Opelt, and Axel Pinz
3. Automatic Object-of-Interest Segmentation from Natural Images
   Byoung Chul Ko and Jae-Yeal Nam
4. Better Foreground Segmentation for Static Cameras via New Energy Form and Dynamic Graph-cut
   Yunda Sun, Bo Li, Baozong Yuan, Zhenjiang Miao, and Chengkai Wan

Thu-O-II-2a: Information Retrieval

Hall A, 13:30~15:10, Thursday, 24/08/06
Chairs: Yongsheng Gao, and Xiaoqing Ding

1. Content-Based Image Retrieval: On the Way to Object Features
   Nicolas Zlatoff, Guillaume Ryder, Bruno Tellez, and Atilla Baskurt
2. Content-Based Audio Classification Using Support Vector Machines and Independent Component Analysis
   Jia-Ching Wang, Jhing-Fa Wang, Cai-Bei Lin, Kun-Ting Jian, and Wai-He Kuok
3. Texture Image Retrieval Using Novel Non-Separable Filter Banks Based on Centrally Symmetric Matrices
   Zhenyu He, Xinge You, Yuan Yan Tang, Patrick Wang, and Yun Xue
4. Adaptive Discriminant Projection for Content-Based Image Retrieval
   Jie Yu and Qi Tian
5. Efficient Region Based Indexing and Retrieval for Images with Elastic Bucket Tries
   Suman Karthik and C.V. Jawahar

Thu-O-I-2b: Image and Feature Analysis

Room 401, 13:30~15:10, Thursday, 24/08/06
Chairs: Bir Bhanu, and Robert Bergevin

1. Contrast Context Histogram -- A Discriminating Local Descriptor for Image Matching
   Chun-Rong Huang, Chu-Song Chen, and Pau-Choo Chung
2. Global-to-Local Non-Rigid Shape Registration
   Hui Chen and Bir Bhanu
3. Description of Local Singularities for Image Registration

Julien Ros and Christophe Laurent
4. Perspective Symmetry Invariant and Its Applications
   Tianqiang Yuan, Shuicheng Yan, and Xiaoou Tang
5. Reconciling Landmarks and Level Sets
   Pierre Maurel, Renaud Keriven, and Olivier Faugeras

Thu-O-IV-2: Face Recognition II

Room 404/5, 13:30~15:10, Thursday, 24/08/06
Chairs: Rama Chellappa, and Josef Bigun

Invited Paper

- Information Fusion in Pattern Recognition Systems with Application to Biometrics
  Josef Kittler

1. A Non-Iterative Approach to Reconstruct Face Templates from Match Scores
   Pranab Mohanty, Sudeep Sarkar, and Rangachar Kasturi
2. Pose Correction and Subject-Specific Features for Face Authentication
   Daniel González-Jiménez and José Luis Alba-Castro
3. Are Gabor Phases Really Useless for Face Recognition?
   Wenchao Zhang, Shiguang Shan, Xilin Chen, and Wen Gao

Thu-O-II-2b: Pattern Representation and Transformation I

Room 406/7, 13:30~15:10, Thursday, 24/08/06
Chairs: Pavel Paclik, and Guy Lorette

1. 3-D Surface Moment Invariants
   Dong Xu and Hua Li
2. Blind Phase-Amplitude Modulation Classification with Unknown Phase Offset
   M.L. Dennis Wong and Asoke K. Nandi
3. 1D-PCA, 2D-PCA to nD-PCA
   Hongchuan Yu and Mohammed Bennamoun
4. A New Objective Function for Ensemble Selection in Random Subspaces
   Albert Hung-Ren Ko, Robert Sabourin, and Alceu de Souza Britto
5. An Empirical Model for Saturation and Capacity in Classifier Spaces
   R.B. Fisher

Thu-P-IV-2: Image and Video Processing Applications

Convention Foyer, 13:30~15:10, Thursday, 24/08/06

1. Vehicle Ego-Motion Estimation and Moving Object Detection Using a Monocular Camera
   Koichiro Yamaguchi, Takeo Kato, and Yoshiki Ninomiya
2. Self-Localization of a Mobile Robot Using Compressed Image Data of Average and Standard Deviation
   Noriyuki Shibuya and Kazunori Umeda
3. Automated Face Pose Estimation Using Elastic Energy Models

Sanqiang Zhao and Yongsheng Gao
4. Pattern Recognition and Computer Vision for Mineral Froth
Weixing Wang and Lei Li
5. Vehicle Lateral Position Estimation Method Based on Matching of Top-View Images
Tomoaki Teshima, Hideo Saito, Shinji Ozawa, Keiichi Yamamoto, and Toru Ihara
6. Insulator Recognition for 220kv/330kv High-Voltage Live-line Cleaning Robot
Jian Zhang and Ruqing Yang
7. Direct Mapping of Visual Input to Motor Torques
Jeremiah J. Neubert and Nicola J. Ferrier
8. Control Double Inverted Pendulum by Reinforcement Learning with Double CMAC Network
Yu Zheng, Siwei Luo, and Ziang Lv
9. Initialization and System Modeling in 3-D Pose Tracking
Danica Kragic and Ville Kyrki
10. A New Linear Calibration Method for Paracatadioptric Cameras
Bertrand Vandeportaele, Michel Cattoen, Phillipe Marthon, and Pierre Gurdjos
11. Target Model Estimation Using Particle Filters for Visual Servoing
A.H. Abdul Hafez and C.V. Jawahar
12. Visual Servoing in Presence of Non-Rigid Motion
D. Santosh Kumar and C.V. Jawahar
13. Shape-Based Contour Interpolation and Extrapolation Using Distance Mapping
Denis Laurendeau and Oleg Boulanov
14. Spatial-HMM: A New Approach for Semantic Annotation of Histological Images
Feiyang Yu and Horace H.S. Ip
15. Automatic Alignment of High-Resolution NMR Spectra Using a Bayesian Estimation Approach
Zhou Wang and Seoung Bum Kim
16. Segmentation of the Left Ventricle from Cardiac MR Images Based on Degenerated Minimal Surface Diffusion and Shape Priors
Yuanquan Wang and Yunde Jia
17. Non-Rigid Alignment and Real-Time Tracking Using the Geometric Algebra Framework
Jorge Rivera-Rovelo and Eduardo Bayro Corrochano
18. Lesion Detection Using Morphological Watershed Segmentation and Model-Based Inverse Filtering
Marc Macenko, Mehmet Celenk, and Limin Ma
19. Robust Alignment of Transmission Electron Microscope Tilt Series
Sami S. Brandt and Ulrike Ziese
20. Using a Fuzzy Framework for Delineation and Decomposition of ImmunoGlobulin G in Cryo Electron Tomographic Images
Stina Svensson, Magnus Gedda, Duccio Fanelli, Ulf Skoglund, Lars-Göran Öfverstedt, and Sara Sandin
21. Shape Decomposition Approach for Ultrasound Color Doppler Image Segmentation
Ashraf A. Saad and Linda G. Shapiro

22. Analysis of Abnormality in Endoscopic Images Using Combined HSI Color Space and Watershed Segmentation
    B.V. Dhandra, Ravindra Hegadi, Mallikarjun Hangarge, and V.S. Malemath
23. A Nonlinear Variational Model for PET Reconstruction
    Jianhua Yan and Jun Yu
24. An Adaptive ICP Registration for Facial Point Data
    Jiann-Der Lee, Shih-Sen Hsieh, Chung-Hsien Huang, Li-Chang Liu, Chien-Tsai Wu, Shin-Tseng Lee, and Jyi-Feng Chen
25. A New Approach to the Classification of Mammographic Masses and Normal Breast Tissue
    Arnau Oliver, Joan Martí, Robert Martí, Anna Bosch, and Jordi Freixenet
26. Technology for Automated Morphologic Analysis of Cytological Slides, Methods and Results
    I. Gurevich, D. Kharazishvili, D. Murashov, O. Salvetti, and I. Vorobjev
27. Detection of Presynaptic Terminals on Dendritic Spines in Double Labeling Confocal Images
    Andreas Herzog, Robert Niese, Gerald Krell, Bernd Michaelis, Wladimir Ovtscharoff, and Katharina Braun
28. Content-Based Retrieval of Cardiac Echo Videos
    Tanveer Syeda-Mahmood and Jing Yang
29. Automatic Detection of Intestinal Juices in Wireless Capsule Video Endoscopy
    F. Vilariño, P. Spyridonos, O. Pujol, J. Vitrià, P. Radeva, and F. de Iorio
30. Video Scene Extraction Using Mosaic Technique
    Liang-Hua Chen, Yu-Chun Lai, and Hong-Yuan Liao
31. Data Hiding in MPEG Compressed Audio Using Wet Paper Codes
    Xiaomei Quan and Hongbin Zhang
32. A Hybrid Classifier for Precise and Robust Eye Detection
    Lizuo Jin, Xiaohui Yuan, Shin'ichi Satoh, Jiuxian Li, and Liangzheng Xia
33. From Blob Metrics to Posture Classification to Activity Profiling
    Liang Wang
34. Stereo Camera Based Non-Contact Non-Constraining Head Gesture Interface for Electric Wheelchairs
    Ikushi Yoda, Junichi Tanaka, Bisser Raytchev, Katsuhiko Sakaue, and Takenobu Inoue
35. Robust Detection of Region-Duplication Forgery in Digital Image
    Weiqi Luo, Jiwu Huang, and Guoping Qiu
36. Object-Based Image Retrieval Using Active Nets
    David García-Pérez, Antonio Mosquera, Stefano Berretti, and Alberto Del Bimbo
37. Detecting Video Texts Using Spatial-Temporal Wavelet Transform
    Yuan-Kai Wang and Jian-Ming Chen
38. A Comparison of Fiducial-Based Visual Positioning Systems
    Adrian Clark
39. An Algorithm for Cutting 3D Surface Meshes
    Huynh Quang Huy Viet, Takahiro Kamada, and Hiromi Tanaka
40. Attention Navigation by Keeping Screen Layout for Switching Multiple Views

Shogo Tokai and Hiroyuki Hase
41. Real Time Limb Tracking with Adaptive Model Selection
Matheen Siddiqui and Gérard Medioni
42. Human-Robot Interaction by Whole Body Gesture Spotting and Recognition
Hee-Deok Yang, A-Yeon Park, and Seong-Whan Lee
43. Automatic Sports Video Genre Classification Using Pseudo-2D-HMM
Jinjun Wang, Changsheng Xu, and Engsiong Chng
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60. Filament Preserving Segmentation for SAR Sea Ice Imagery Using a New Statistical Model
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67. Calibrating Freely Moving Cameras
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69. Anomaly Detection for Video Surveillance Applications
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70. Efficient Visual Tracking by Probabilistic Fusion of Multiple Cues
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73. Active Learning Based Pedestrian Detection in Real Scenes
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74. Attentive Visual Servoing in the MPEG Compressed Domain for Un-calibrated Motion Parameter Estimation of Road Traffic
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75. Fault Detection in Distributed Systems by Representative Subspace Mapping
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76. Nonparametric Background Generation
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77. Fast Dynamic Mosaicing and Person Following
    Andrea Prati, Fabrizio Seghedoni, and Rita Cucchiara

Thu-O-I-3a: Illumination and Feature Analysis

Hall B/C, 15:40~17:40, Thursday, 24/08/06
Chairs: Edwin Hancock, and Santanu Chaudhury

1. Moving Cast Shadows Detection Based on Ratio Edge
   Wei Zhang, Xiang Zhong Fang, and Xiaokang Yang
2. A New Approach to Automated Retinal Vessel Segmentation Using Multiscale Analysis
   Qin Li, Jane You, Lei Zhang, David Zhang, and Prabir Bhattacharya
3. Computation of Rotation Local Invariant Features Using the Integral Image for Real Time Object Detection
   Michael Villamizar, Alberto Sanfeliu, and Juan Andrade-Cetto
4. Estimating Cast Shadows Using SFS and Class-Based Surface Completion
   William A.P. Smith and Edwin R. Hancock
5. Estimation of Dynamic Light Changes in Outdoor Scenes without the use of Calibration Objects
   Mikkel Sandberg Andersen, Tommy Jensen, and Claus B. Madsen

Thu-O-II-3a: Pattern Representation and Transformation II

Hall A, 15:40~17:40, Thursday, 24/08/06
Chairs: Sargur Srihari, and Dmitry Goldgof

1. Building Connected Neighborhood Graphs for Locally Linear Embedding
   Li Yang
2. Building a Multi-Modal Thesaurus from Annotated Images
   Hichem Frigui and Joshua Caudill
3. Locally Multidimensional Scaling for Nonlinear Dimensionality Reduction
   Li Yang
4. Invariant Features for 3D-Data Based on Group Integration Using Directional Information and Spherical Harmonic Expansion
   M. Reisert and H. Burkhardt
5. Combining Dichotomizers for MAP Field Classification
   Srinivas Andra and George Nagy
6. Epipolar Geometry from Two Correspondences
   Michal Perd'och, Jiří Matas, and Ondřej Chum

Thu-O-I-3b: Image Segmentation II

Room 401, 15:40~17:40, Thursday, 24/08/06
Chairs: Narendra Ahuja, and Henry Baird

1. A Statistical Assembled Model for Segmentation of Entire 3D Vasculature
   Jun Feng and Horace H.S. Ip
2. Analysis of Ramp Discontinuity Model for Multiscale Image Segmentation
   Himanshu Arora and Narendra Ahuja
3. Forest Extension of Error Correcting Output Codes and Boosted Landmarks

Sergio Escalera, Oriol Pujol, and Petia Radeva
4. A New Hierarchical Image Segmentation Method
   Xiaojun Du and Tien D. Bui
5. Finding Text in Natural Scenes by Figure-Ground Segmentation
   Huiying Shen and James Coughlan

Thu-O-IV-3: Surveillance

Room 404/5, 15:40~17:40, Thursday, 24/08/06
Chairs: Rita Cucchiara, and Svetha Venkatesh

1. MONNET: Monitoring Pedestrians with a Network of Loosely-Coupled Cameras
   Alexandra Branzan Albu, Denis Laurendeau, Sylvain Comtois, Denis Ouellet, Patrick Hebert, Andre Zaccarin, Marc Parizeau, Robert Bergevin, Xavier Maldague, Richard Drouin, Stephane Drouin, Nicolas Martel-Brisson, Frederic Jean, Helen Torresan, Langis Gagnon, and France Laliberte
2. Observation-Switching Linear Dynamic Systems for Tracking Humans through Unexpected Partial Occlusions by Scene Objects
   Patrick Peursum, Svetha Venkatesh, and Geoff West
3. Change Detection in Streetscapes from GPS Coordinated Omni-Directional Image Sequences
   Junji Sato, Tomokazu Takahashi, Ichiro Ide, and Hiroshi Murase
4. AdaBoost Tracker Embedded in Adaptive Particle Filtering
   Yun Lei, Xiaoqing Ding, and Shengjin Wang
5. Recovering Non-overlapping Network Topology Using Far-field Vehicle Tracking Data
   Chaowei Niu and Eric Grimson

Thu-O-II-3b: Kernel Methods

Room 406/7, 15:40~17:40, Thursday, 24/08/06
Chairs: Patrick Wang, and Benson Lam

1. A Convolution Edit Kernel for Error-Tolerant Graph Matching
   Michel Neuhaus and Horst Bunke
2. String Kernels for Matching Seriated Graphs
   Hang Yu and Edwin R. Hancock
3. A Kernel-Based Discrimination Framework for Solving Hypothesis Testing Problems with Application to Speaker Verification
   Yi-Hsiang Chao, Wei-Ho Tsai, Hsin-Min Wang, and Ruei-Chuan Chang
4. On Kernel Selection in Relevance Vector Machines Using Stability Principle
   Kropotov Dmitry, Ptashko Nikita, Vasiliev Oleg, and Vetrov Dmitry
5. Kernel Procrustes
   Isaac Martín de Diego and Alberto Muñoz

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Chen, G. Y. Tue-P-II-2
Chen, G. Y. Tue-P-II-2
Chen, Haifeng Tue-O-II-1
Chen, Haifeng Thu-P-IV-2
Chen, Hui Thu-O-I-2b
Chen, Hung-Hsiang Mon-P-I-3
Chen, Jian-Ming Thu-P-IV-2
Chen, Jie Tue-O-IV-1
Chen, Jie Tue-P-II-3
Chen, Jie Wed-P-II-2
Chen, Jyi-Feng Thu-P-IV-2
Chen, Lei Wed-O-II-3a
Chen, Liang-Hua Thu-P-IV-2
Chen, Liming Wed-P-II-1
Chen, Liming Wed-P-IV-3
Chen, Min Mon-O-III-3
Chen, Qian Mon-P-I-3
Chen, Qiuhui Mon-O-I-3
Chen, Shaokang Mon-O-I-3
Chen, Shifeng Mon-P-I-2
Chen, Shiju Mon-P-I-2
Chen, Shoushui Wed-P-III-3
Chen, Siyuan Tue-P-II-3
Chen, Terrence Tue-P-I-1
Chen, Tsuhan Tue-O-II-2
Chen, Wei-Gang Mon-P-I-1
Chen, Weimin Wed-P-II-2
Chen, Weimin Thu-P-IV-1
Chen, Wenbin Tue-P-II-3
Chen, Wen-Sheng Wed-P-II-2

Chen, Wen-Shiung Thu-P-IV-1
Chen, Xiaochuan Wed-P-IV-3
Chen, Xiaoguang Thu-O-II-1b
Chen, Xilin Mon-P-I-2
Chen, Xilin Tue-O-IV-1
Chen, Xilin Tue-O-IV-1
Chen, Xilin Tue-O-IV-1
Chen, Xilin Tue-O-IV-3
Chen, Xilin Tue-O-IV-3
Chen, Xilin Tue-P-II-3
Chen, Xilin Wed-O-II-3b
Chen, Xilin Wed-P-II-2
Chen, Xilin Wed-P-II-2
Chen, Xilin Wed-P-IV-3
Chen, Xilin Thu-O-IV-2
Chen, Xilin Thu-P-IV-2
Chen, Xinmeng Mon-P-V-1
Chen, Yan Qiu Thu-O-I-1b
Chen, Yang Tue-P-I-1
Chen, Yen-Lin Mon-P-I-3
Chen, Yen-Wei Wed-P-II-1
Chen, Yi Thu-P-IV-1
Chen, Yi Thu-P-IV-1
Chen, Ying-Nong Wed-P-II-2
Chen, Yi-Ping Phoebe Mon-P-V-1
Chen, Yi-Sheng Tue-P-II-3
Chen, Yuan-Hsin Mon-P-I-3
Chen, Yuan-Hsin Mon-P-I-3
Chen, Yun Wen Wed-P-II-1
Chen, Yushan Wed-P-III-2
Chen, Yu-Te Mon-O-V-1
Chen, Zen Mon-P-I-1
Chen, Zhi-Wei Tue-O-I-3b
Cheng, Chang Wed-P-IV-3
Cheng, Hong Mon-P-I-3
Cheng, Hsien-Ting Wed-O-II-2a
Cheng, Jian Tue-P-II-3
Cheng, Jun Tue-P-I-1
Cheng, Lizhi Mon-O-III-1
Cheng, Luo Mon-P-V-1
Cheng, Shih-Sian Tue-P-II-2
Cheng, Victor W. Thu-P-IV-1
Cheng, Yimin Mon-P-V-1
Chetverikov, Dmitry Thu-O-I-1b
Cheung, King-Hong Thu-P-IV-1
Chevallet, Jean-Pierre Tue-P-II-2
Chevelu, Jonathan Mon-P-I-2
Chia, Alex Yong Sang Mon-P-I-3
Chiang, Cheng-Chin Tue-O-I-3b
Chiang, Yao-Yi Tue-P-II-3
Chien, Lee-Feng Wed-P-II-1
Chien, Sung-Il Mon-P-I-2
Chihara, Kunihiro Thu-P-IV-2
Chikkerur, Sharat Thu-O-II-1b
Chikkerur, Sharat Thu-P-IV-1
Chin, Tat-Jun Mon-P-I-2
Chiu, Chih-Yi Wed-P-II-1
Chiu, Han-Pang Tue-P-I-1
Chng, Engsiong Thu-P-IV-2
Cho, Genki Thu-O-I-1a
Cho, Genki Thu-P-IV-2
Cho, Siu-Yeung Mon-P-V-1
Cho, Siu-Yeung Tue-P-II-3
Choe, Tae Eun Wed-P-III-2
Choi, Eric H.C. Thu-P-III-1
Choi, Eric H.C. Thu-P-III-1
Choi, Euisun Tue-P-II-3
Choi, Kwontaeg Wed-P-IV-3
Choi, Seungjin Mon-O-III-1
Cholakian, Arpineh Wed-P-II-1
Chollet, Gérard Wed-P-IV-3
Chollet, Gérard Thu-P-III-1
Chong, Chee Boon Wed-P-II-1
Chong, Chee-Way Wed-P-II-1
Chou, Chia-Te Thu-P-IV-1
Chou, Chien-Hsing Tue-P-II-2
Chou, Hong-Long Mon-P-I-1
Chowdhury, Tarik Mon-O-IV-1
Christensen, Henrik Tue-P-I-1
Christensen, Lars Bager Mon-P-I-2
Christmas, William Mon-P-I-2
Christmas, William Mon-P-I-2
Chum, Ondřej Thu-O-II-3a
Chung, Pau-Choo Mon-P-V-1
Chung, Pau-Choo Thu-O-I-2b
Chung, Ronald Tue-P-I-1
Cipolla, Roberto Mon-O-I-3
Cipolla, Roberto Mon-O-V-1
Cipolla, Roberto Tue-P-I-1
Cipolla, Roberto Wed-O-I-3a
Clady, Xavier Mon-P-I-3
Clark, Adrian Thu-P-IV-2
Clark, James T. Thu-P-IV-2
Clausi, David Tue-P-I-1
Clausi, David Thu-P-IV-2
Climent, Juan Tue-P-I-1
Cocquerez, Jean Pierre Mon-P-I-2
Cohen, Ira Mon-P-V-1
Cohen, Isaac Tue-P-II-2
Cohen, Isaac Wed-P-III-2

Collins, Louis Wed-O-IV-1
Collins, Roderic Mon-P-I-3
Comtois, Sylvain Thu-O-IV-3
Condurache, Alexandru Paul Mon-P-I-2
Connell, Jonathan Thu-O-II-1b
Coogan, Thomas Wed-P-II-2
Cook, A. Tue-P-II-2
Cooper, Leon N. Mon-P-I-2
Cooper, Leon N. Wed-O-II-2a
Cooperstock, Jeremy R. Mon-P-I-3
Cooperstock, R. Wed-P-III-2
Cootes, T.F. Tue-P-I-1
Cornelis, Nico Mon-P-I-1
Cornelius, Hugo Tue-P-I-1
Corrochano, Eduardo Bayro Mon-P-V-1
Corrochano, Eduardo Bayro Thu-P-IV-2
Coughlan, James Thu-O-I-3b
Couloigner, Isabelle Tue-P-I-1
Courteille, Frédéric Tue-P-I-1
Cristani, Marco Thu-O-I-1a
Crookes, D. Tue-P-I-1
Crowley, James Mon-P-V-1
Crozier, Stuart Mon-O-I-2
Csakany, Peter Mon-P-I-2
Császár, Gergely Thu-P-III-1
Csurka, Gabriela Wed-P-III-2
Cucchiara, Rita Tue-O-I-3a
Cucchiara, Rita Tue-P-I-1
Cucchiara, Rita Thu-P-IV-2
Cui, Jiali Thu-P-IV-1
Cui, Jinshi Thu-P-IV-2
Cui, Li Thu-P-IV-1
Cuntai, Guan Mon-P-V-1
Cutzu, Florin Mon-P-I-3
Czúni, László Thu-P-III-1
Czyz, Jacek Mon-P-I-3
Czyz, Jacek Tue-P-I-1
D'Elia, Ciro Tue-P-II-2
da Silva, Gleidson Pegoretti Wed-P-II-1
Dagli, Charlie K. Tue-O-II-3
Dahme, Gary Tue-P-I-1
Dai, Beiqian Thu-P-III-1
Dai, Beiqian Thu-P-III-1
Dai, Beiqian Thu-P-III-1
Dai, Fang Tue-P-I-1
Dai, Ruwei Mon-O-II-1
Dai, Ruwei Mon-O-III-2
Damper, R. Tue-O-V-1
Das, Sukhendu Tue-P-I-1
Dass, Sarat C. Wed-P-II-2
Dass, Sarat C. Thu-P-IV-1
Datta, Alok K. Wed-P-II-1
Davis, Larry Wed-P-II-1
Davoine, Franck Tue-O-IV-1
Dawood, M. Mon-O-IV-1
De Backer, Steve Wed-P-III-2
de Carvalho, João Marques Wed-P-II-1
de Iorio, F. Thu-P-IV-2
de la Blanca, Nicolas Perez Mon-P-I-3
de la Fuente, Eusebio Mon-P-I-3
de La Gorce, Martin Tue-P-I-1
de Ridder, Dick Wed-P-II-1
De Roeck, Stefaan Mon-P-I-1
de Rooij, O. Mon-O-V-3
De Roover, Cédric Tue-P-I-1
De Santo, M. Tue-O-IV-2
De Silva, Ravindra Mon-P-V-1
de Souza Britto, Alceu Thu-O-II-2b
De Stefano, Claudio Tue-P-II-2
Debled-Rennesson, I. Wed-P-II-1
Deguchi, Kochiro Wed-O-I-3b
Deguchi, Koichiro Tue-P-II-2
Dehak, Najim Wed-P-IV-3
Dekeyser, F. Wed-O-IV-3
Del Bimbo, Alberto Mon-O-I-1
Del Bimbo, Alberto Mon-P-I-1
Del Bimbo, Alberto Wed-O-I-3a
Del Bimbo, Alberto Wed-P-IV-3
Del Bimbo, Alberto Thu-P-IV-2
Del Bue, Alessio Mon-P-I-1
Delannay, Nicolas Tue-P-II-2
Delmas, Patrice Mon-P-I-1
Delponte, Elisabetta Tue-P-II-3
DeMenthon, Daniel Tue-O-II-2
Demirkus, Meltem Thu-P-IV-1
Demonceaux, Cédric Mon-P-I-3
Deng, Hongli Mon-P-I-3
Deng, Weihong Tue-P-II-2
Deng, Weihong Tue-P-II-2
Denton, Erika Mon-O-V-3
Denzler, Joachim Mon-P-I-1
DePiero, Fred W. Wed-O-II-2b
Derpanis, Konstantinos Tue-P-I-1
Desai, Uday Wed-P-III-3
Descombes, Xavier Mon-O-I-1
Desvignes, Michel Mon-P-I-2
Deutsch, Benjamin Mon-P-I-1
Dhandra, B.V. Tue-P-II-3
Dhandra, B.V. Tue-P-II-3
Dhandra, B.V. Thu-P-IV-2

Dhome, M. Tue-P-I-1
Dhome, M. Wed-O-IV-3
Dhua, Arnab Mon-P-I-3
di Freca, Alessandra Scotto Tue-P-II-2
Di, Huijun Tue-P-I-1
Dias, Jorge Mon-P-I-2
Dickinson, S. Tue-O-I-2b
Dietterich, Thomas G. Mon-P-I-3
Ding, Xiaoqing Mon-O-II-1
Ding, Xiaoqing Tue-P-I-1
Ding, Xiaoqing Tue-P-II-2
Ding, Xiaoqing Tue-P-II-3
Ding, Xiaoqing Wed-P-II-2
Ding, Xiaoqing Thu-O-IV-3
Ding, Xiaoqing Thu-P-IV-1
Ding, Xiaoqing Thu-P-IV-1
Ding, Xiaoqing Thu-P-IV-1
Djioua, Moussa Mon-P-V-1
Djorgovski, S. Wed-O-II-2a
Djouadi, Seddik Tue-P-I-1
Dmitry, Kropotov Thu-O-II-3b
Dmitry, Vetrov Thu-O-II-3b
Do, Hyun-Chul Mon-P-I-2
Dodds, Gordon Mon-P-I-3
Doermann, David Tue-O-II-2
Doermann, David Tue-P-II-3
Donate, Arturo Tue-P-I-1
Donath, Peter Mon-O-IV-1
Dong, Qiulei Mon-P-I-2
Dong, Xiao Mon-O-IV-1
Donner, René Mon-P-I-2
Donner, René Mon-P-I-2
Donoser, Michael Mon-P-I-1
Doretto, Gianfranco Mon-P-I-2
Dorizzi, Bernadette Thu-P-IV-1
Dornaika, Fadi Tue-O-IV-1
Dorri, Faezeh Tue-P-II-3
Dorri, Fatemeh Tue-P-II-3
Doshi, Ashish Wed-O-I-1
Dou, Weibei Wed-P-II-1
Dowson, N.D.H. Tue-O-III-3
Drakopoulos, John Wed-P-II-1
Drew, Mark Wed-O-I-2
Drouin, Richard Thu-O-IV-3
Drouin, Stephane Thu-O-IV-3
Drummond, Tom Tue-P-II-2
Drygajlo, Andrzej Thu-P-IV-1
Du, Cheng Wed-O-II-3b
Du, Shaoyi Tue-O-IV-3
Du, Wei-Chang Wed-P-III-3
Du, Xiaojun Thu-O-I-3b
Du, Youtian Mon-P-I-3
Duan, Jian Mon-O-III-3
Duan, Lingyu Tue-O-V-1
Duin, Robert Tue-P-II-2
Duin, Robert Wed-O-II-1b
Duin, Robert Wed-P-II-1
Duin, Robert Thu-O-II-1a
Duin, Robert Thu-O-II-1a
Duong, Thi V. Wed-P-II-1
Dupont, Romain Wed-O-I-3b
Durou, Jean-Denis Tue-P-I-1
Echigo, Tomio Tue-O-I-3b
Echigo, Tomio Wed-O-IV-1
Eidenberger, Horst Wed-P-IV-3
Ekbal, Asif Tue-P-II-2
El-Baz, Ayman Tue-O-III-3
El-Baz, Ayman Wed-O-III-1
El-Baz, Ayman Wed-P-III-2
El-Baz, Ayman Wed-P-III-3
Elbs, Alexander Mon-P-I-2
Eldiasty, Tarek Wed-O-III-1
Eldiasty, Tarek Wed-P-III-3
Elgammal, Ahmed Mon-O-I-3
Elgammal, Ahmed Wed-O-I-2
Elgammal, Ahmed Wed-P-II-1
Elgammal, Ahmed Wed-P-IV-3
El-Ghar, Mohamed Wed-O-III-1
El-Ghar, Mohamed Wed-P-III-3
Elliman, Dave Tue-P-II-3
Elter, Matthias Wed-O-III-1
Emms, David Wed-O-II-1b
Ennaji, Abdellatif Tue-P-II-3
Epps, Julien Thu-P-III-1
Erçil, Aytül Wed-O-IV-3
Ericsson, Anders Wed-O-II-3a
Eriksson, Anders Wed-P-III-2
Ersbøll, Bjarne Mon-P-I-2
Escalera, Sergio Wed-O-II-3a
Escalera, Sergio Thu-O-I-3b
Escobar, Ivan A. Wed-P-II-1
Esson, Charles Mon-P-I-1
Etyngier, Patrick Mon-P-I-1
Evans, Murray Mon-P-I-1
Ezoji, Mehdi Wed-P-II-2
Faas, F.G.A. Wed-P-III-3
Fablet, Ronan Thu-O-I-1b
Faez, Karim Tue-P-II-3
Faez, Karim Wed-P-II-2
Faggian, Nathan Mon-P-I-2

Fahmi, Rachid Wed-P-III-2
Falk, Robert Wed-O-III-1
Fan, Kuo-Chin Wed-P-II-2
Fan, Wei-hong Wed-P-III-2
Fanelli, Duccio Thu-P-IV-2
Fang, Chi Thu-P-IV-1
Fang, Jianzhong Tue-P-II-3
Fang, Wen Mon-P-V-1
Fang, Wen Tue-P-I-1
Fang, Xiang Zhong Mon-P-I-3
Fang, Xiang Zhong Thu-O-I-3a
Faradji, Farhad Tue-P-II-3
Farag, Aly Tue-O-III-3
Farag, Aly Wed-O-III-1
Farag, Aly Wed-P-III-2
Farag, Aly Wed-P-III-3
Faraj, Maycel Wed-P-IV-3
Farooq, Faisal Tue-P-II-3
Fasel, Beat Wed-P-II-1
Faugeras, Olivier Wed-O-I-1
Faugeras, Olivier Thu-O-I-2b
Feerie, Frank P. Thu-P-IV-2
Fehr, Janis Wed-P-II-1
Fei, Guoqiang Thu-O-I-1a
Fei-Fei, Li Mon-P-I-2
Fei-Fei, Li Wed-P-II-2
Felberg, Michael Tue-O-II-1
Felipe, Edgardo Tue-P-II-3
Felsberg, Michael Wed-P-II-1
Feng, Jianjiang Thu-P-IV-1
Feng, Jianjiang Thu-P-IV-1
Feng, Jianjiang Thu-P-IV-1
Feng, Jufu Thu-O-II-1b
Feng, Jun Thu-O-I-3b
Feng, Wei Thu-O-I-2a
Feng, Xinhua Thu-P-IV-1
Feng, Xuetao Mon-P-I-2
Feng, Yansong Thu-O-II-1b
Ferchichi, Seifeddine Tue-P-I-1
Ferguson, B. Wed-P-II-1
Ferguson, Stuart Mon-P-I-3
Fernández, L. Mon-P-I-1
Ferraro, Mario Tue-P-I-1
Ferrie, Frank Mon-P-I-1
Ferrier, Nicola J. Thu-P-IV-2
Ferryman, James Mon-P-I-1
Ferryman, James Mon-P-I-3
Filip, Jiří Thu-O-I-1b
Fink, Gernot A. Wed-P-III-2
Finlayson, Graham Mon-P-I-3
Fischer, Robert Mon-P-V-1
Fischl, Bruce Wed-O-II-2b
Fisher, R. Mon-O-I-2
Fisher, R. Mon-O-III-3
Fisher, R. Wed-P-IV-3
Fisher, R. Thu-O-II-2b
Florea, Filip Tue-P-II-3
Flusser, Jan Tue-P-II-2
Foggia, P. Tue-O-IV-2
Foong, K.W.C. Wed-O-IV-1
Foresti, Gian Luca Mon-P-I-3
Foroosh, Hassan Mon-P-I-3
Foroosh, Hassan Tue-O-I-1
Foroosh, Hassan Tue-O-I-1
Foroosh, Hassan Tue-O-IV-2
Foroosh, Hassan Wed-O-I-3b
Foroosh, Hassan Wed-O-III-1
Foroosh, Hassan Thu-P-IV-2
Foroosh, Hassan Thu-P-IV-2
Foroosh, Hassan Thu-P-IV-2
Fraile, Roberto Mon-P-I-1
Francis, Simon Wed-O-IV-1
Fred, Ana Mon-O-II-3
Fredembach, Clement Mon-P-I-3
Freixenet, Jordi Thu-P-IV-2
Frigui, Hichem Thu-O-II-3a
Frintrop, Simone Tue-P-I-1
Fripp, Jurgen Mon-O-I-2
Frühstück, Bernhard Wed-O-I-3b
Fu, Chih-Ming Tue-P-II-3
Fu, Dongdong Wed-P-II-1
Fu, Dongdong Wed-P-II-1
Fu, Hsin-Chia Tue-P-II-2
Fu, Li-Chen Mon-P-V-1
Fu, Qiang Tue-P-II-3
Fu, X. Tue-P-I-1
Fu, Zhouyu Mon-O-IV-3
Fu, Zhouyu Mon-P-I-3
Fua, Pascal Mon-P-I-3
Fujita, Yusuke Wed-P-III-3
Fujiwara, Daisuke Wed-P-IV-3
Fujiwara, Takayuki Wed-P-III-3
Fujiwara, Takayuki Wed-P-III-3
Fujiyoshi, Hironobu Tue-P-II-3
Fujiyoshi, Hironobu Wed-P-III-2
Fukunaga, Kunio Thu-P-IV-2
Fung, Kenneth Tue-P-I-1
Furukawa, Ryo Mon-O-IV-3
Fussenegger, Michael Thu-O-I-2a
Gagnon, Langis Thu-O-IV-3

Gan, Timothy Tue-P-II-2
Gan, Xiangchao Tue-P-II-2
Gan, Xiangchao Wed-P-III-3
Ganesan, L. Tue-P-II-3
Gans, Harold Wed-P-II-1
Gans, Harold Wed-P-III-3
Gao, Chengying Tue-P-I-1
Gao, Jean Mon-O-IV-1
Gao, Jean Tue-O-I-2b
Gao, Sheng Tue-P-II-2
Gao, Sheng Tue-P-II-2
Gao, Wen Mon-O-I-1
Gao, Wen Mon-P-I-2
Gao, Wen Mon-P-I-2
Gao, Wen Tue-O-IV-1
Gao, Wen Tue-O-IV-1
Gao, Wen Tue-O-IV-1
Gao, Wen Tue-O-IV-3
Gao, Wen Tue-O-IV-3
Gao, Wen Tue-P-I-1
Gao, Wen Tue-P-II-3
Gao, Wen Tue-P-II-3
Gao, Wen Wed-O-II-3b
Gao, Wen Wed-P-II-2
Gao, Wen Wed-P-II-2
Gao, Wen Wed-P-IV-3
Gao, Wen Thu-O-IV-2
Gao, Wen Thu-P-IV-2
Gao, Yong Mon-O-I-3
Gao, Yong Mon-P-I-2
Gao, Yongsheng Mon-P-I-2
Gao, Yongsheng Tue-P-II-2
Gao, Yongsheng Wed-P-II-2
Gao, Yongsheng Wed-P-IV-3
Gao, Yongsheng Thu-P-IV-2
Garain, Utpal Tue-P-II-3
Garain, Utpal Wed-P-II-1
Garain, Utpal Wed-P-III-2
Garcia, Christophe Tue-P-II-2
García-Bermejo, Jaime Gómez Tue-O-I-3b
García-Pérez, David Thu-P-IV-2
García-Sevilla, Pedro Tue-P-II-2
Gatica-Perez, Daniel Wed-P-II-1
Gatos, B. Tue-P-II-3
Gavrilova, Marina Mon-O-IV-2
Gayatri, V. Thu-P-III-1
Gayubo, Fernando Mon-P-I-3
Gebken, Christian Mon-P-I-3
Gedda, Magnus Thu-P-IV-2
Genc, Yakup Mon-P-I-1
Gentric, Stéphane Mon-P-I-2
Gevers, Theo Mon-P-V-1
Gevers, Theo Mon-P-V-1
Ghita, Ovidiu Mon-O-IV-1
Ghosh, N. Wed-P-II-1
Ghosh, N. Thu-P-III-1
Ghys, Charlotte Wed-P-III-3
Gibbens, M. Tue-P-II-2
Giblin, Peter Tue-P-I-1
Gil, P. Wed-P-III-3
Gil-García, Reynaldo Tue-P-II-2
Gimel'farb, Georgy Wed-P-III-3
Gimel'farb, Georgy Mon-P-I-1
Gimel'farb, Georgy Tue-O-III-3
Gimel'farb, Georgy Wed-O-III-1
Goch, Gert Mon-P-I-2
Godin, Guy Wed-P-III-2
Goebel, Peter Wed-P-III-3
Goecke, Roland Tue-O-III-3
Goh, P.S. Wed-O-IV-1
Gökberk, Berk Wed-O-II-3b
Gokmen, Muhittin Mon-P-I-1
Gokmen, Muhittin Mon-P-I-3
Goldgof, Dmitry Mon-P-I-2
Goldgof, Dmitry Mon-P-V-1
Golfarelli, M. Wed-P-II-1
Golland, Polina Wed-O-II-2b
Gong, Haifeng Wed-P-II-2
Gong, Haifeng Wed-P-III-2
Gong, Minglun Tue-O-I-3a
Gong, Shaogang Wed-O-I-2
Gong, Weiguo Wed-P-II-2
Gong, Weiguo Thu-P-III-1
Gong, Yihong Mon-P-I-2
Gong, Yihong Wed-O-III-2
Gonzalez, Alain Tue-P-II-3
Gonzàlez, Jordi Mon-P-I-2
González, José L. Mon-P-I-3
González-Jiménez, Daniel Thu-O-IV-2
Gopalkrishnan, Vivekanand Wed-O-II-3a
Gorman, Bernard Mon-O-V-2
Gosselin, Bernard Tue-P-II-3
Goto, Hideaki Tue-P-II-3
Goto, Hideaki Tue-P-II-3
Gouet-Brunet, Valerie Wed-P-II-1
Govindaraju, Venu Tue-O-II-3
Govindaraju, Venu Tue-P-II-3
Govindaraju, Venu Wed-P-III-2
Grana, Costantino Tue-P-I-1
Granlund, Gösta Wed-P-II-1

Grau, A. Tue-P-I-1
Gray, Doug Wed-P-IV-3
Greiner, Russell Wed-P-II-1
Grigat, Rolf-Rainer Thu-P-IV-1
Grim, Jiří Tue-P-I-1
Grimson, Eric Thu-O-IV-3
Grossman, Arthur Wed-P-II-1
Gu, Xiaohua Wed-P-II-2
Guan, Jian Mon-O-III-3
Guan, Ling Wed-P-II-1
Guenter, Simon Wed-O-II-2b
Guha, Prithwijit Mon-P-I-2
Gunes, Hatice Mon-P-V-1
Gunsel, Bilge Wed-P-II-1
Guo, Feng Tue-O-I-2a
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Oskarsson, Magnus Tue-O-I-1
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Otsu, Nobuyuki Mon-P-I-3
Ou, Zhijian Thu-P-III-1
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Paasio, Ari Tue-P-I-1
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Paclík, Pavel Thu-O-II-1a
Page, David Wed-P-IV-3
Pal, Chris Tue-P-II-2
Pal, Sankar K. Mon-P-V-1
Pal, Sankar K. Wed-P-II-1
Pal, T. Tue-P-II-3
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Palenichka, Roman M. Wed-P-II-1
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Pan, Quan Thu-P-IV-2
Pan, Yongsheng Tue-P-I-1
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Paplinski, Andrew Mon-P-I-2
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Park, Chang-Beom Thu-P-IV-2
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Park, Sang-Cheol Wed-P-III-3
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Park, Youngtae Wed-P-IV-3
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Pellacani, Giovanni Tue-P-I-1
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Ponce, Jean Mon-P-I-2

Pong, Hon-Keat Mon-P-I-3
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Pu, Yu-Chi Wed-P-III-3
Pudil, P. Tue-P-II-2
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Pupilli, Mark Mon-P-I-2
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Raytchev, Bisser Thu-P-IV-2
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Reignier, Patrick Mon-P-V-1
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Rendek, Jan Mon-P-I-3
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Rinnhofer, Alfred Tue-P-I-1
Rioux, Marc Wed-P-III-2
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Rips, Eliyahu Wed-P-II-1
Rius, Ignasi Mon-P-I-2
Rivera-Rovelo, Jorge Thu-P-IV-2
Rivlin, Ehud Mon-O-IV-3
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Robles-Kelly, Antonio Mon-O-IV-3
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Romeu, Juan Mas Tue-P-II-3
Rondot, Pascale Mon-P-I-3
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Rüde, U. Wed-P-III-2
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Rupp, Stephan Wed-O-III-1
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Sagheer, Alaa Wed-P-II-1
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Thompson, Paul M. Wed-P-III-3
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Torresan, Helen Thu-O-IV-3
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Toyama, Jun Thu-P-IV-1
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Tsai, Yao-Te Wed-O-I-3a
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Uchida, S. Tue-O-IV-2
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Vácha, Pavel Wed-P-II-1
Vajaria, Himanshu Tue-O-III-1
Valentine, T. Tue-P-I-1
Vallejo, Edgar E. Wed-P-II-1
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Vallon, Olivier Wed-P-II-1
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Van Dijck, Gert Mon-O-III-1
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Van Gool, Luc Mon-P-I-1
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Vorobjev, I. Thu-P-IV-2
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Waibel, Alexander Tue-O-III-1
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Wan, Kong Wah Thu-O-II-1a
Wan, Meng Mon-P-I-3
Wang, Chengfeng Mon-O-IV-2
Wang, Cheng-Tzu Wed-P-II-2
Wang, Chunheng Mon-O-II-1
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Wang, Chunli Mon-P-I-2
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Wang, Hsiang-An Wed-P-II-1
Wang, Hsin-Min Tue-P-II-2
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Wang, Ya-Dong Wed-P-IV-3
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Wei, Baogang Thu-O-I-1a
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Wei, Hong Mon-P-I-3
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Wen, Quan Mon-O-IV-1
Wen, Quan Tue-O-I-2b
Wenckebach, Thomas Mon-P-I-2
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Wilson, Peter Mon-P-I-2
Wilson, Richard Wed-O-II-1b
Wilson, Richard Thu-O-II-1a
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Windeatt, T. Tue-O-II-3
Winter, Christian Wed-O-III-1
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Wong, Shu-Fai Mon-O-V-1
Wong, Shu-Fai Wed-O-I-3a
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Wu, Chien-Tsai Thu-P-IV-2
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Wu, Tai-Pang Tue-P-I-1
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Xu, Deyou Wed-P-II-2
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Xu, Wenli Mon-P-I-3
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Xu, Yi Mon-P-I-3
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Xu, Zijian Wed-P-IV-3
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Yoshimura, Hironori Wed-O-I-2
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