Message from the TCII Chair

The Technical Committee on Intelligent Informatics (TCII) of the IEEE Computer Society deals with tools and systems using cognitive and intelligent paradigms such as knowledge engineering, artificial neural networks, fuzzy logic, evolutionary computing, and rough sets, with research and applications in data mining, Web intelligence, brain informatics, intelligent agent technology, parallel and distributed information processing, and virtual reality.

The TCII has been playing a vital role in the IEEE Computer Society's activities, based on its success story for the past 4 years under great leadership of the founding chairman, Dr. Xindong Wu. As the new chair, I will promote more activities sponsored by the TCII and advance the TCII's role both within the IEEE Computer Society and in collaboration with related Special Interest Groups in ACM and other organizations.

I have formed a new Executive Committee to manage TCII activities with the following members:

- Jeffrey M. Bradshaw (Industry Connections), Institute for Human and Machine Cognition, USA
- Nick J. Cercone (Student Affairs), York University, Canada.
- Boi Faltings (Curriculum Issues), Swiss Federal Institute of Technology, Switzerland.
- Vipin Kumar (Bulletin Editor), University of Minnesota, USA.
- Vice Chair: Jiming Liu (Conferences and Membership), Hong Kong Baptist University, Hong Kong.
- Benjamin W. Wah (Awards), University of Illinois, Urbana-Champaign, USA
- Past Chair: Xindong Wu, University of Vermont, USA.
- Chengqi Zhang (Cooperation with Sister Societies/TCs), University of Technology, Sydney, Australia.

The TCII currently co-sponsors the IEEE International Conference on Data Mining (ICDM), the IEEE/WIC/ACM International Conference on Web Intelligence (WI), the IEEE/WIC/ACM International Conference on Intelligence Agent Technology (IAT), the IEEE International Conference on Tools with Artificial Intelligence (ICTAI), and the IEEE International Conference on BioInformation and BioMedicine (BIBM). I am confident that

we can sponsor these conferences to promote TCII activities in these areas.

In addition to conference activities, I will also work hard to advocate the following activities:

a) Enhancing the TCII ability by increasing membership, promoting truly international technical activities, and improving the TCII website and the TCII Bulletin publication.

b) Close cooperation with other TC's in the IEEE Computer Society, the IEEE sister societies, Special Interest Groups in ACM, and other related organizations, such as Web Intelligence Consortium (WIC), International Rough Set Society, and AAAI.

c) Student participations in the TCII and TCII-sponsored conferences, in collaboration with the IEEE Computer Society's Chapters Activities Board.

d) Curriculum and text books development in intelligent informatics, in collaboration with the IEEE Computer Society's Educational Activities Board.

e) Joint activities with the IEEE Computer Society's Publications Board, possibly in TKDE and TPAMI in the form of special issue promotion and editorial appointments.

f) The bridge between the research community and the industry practitioners.

I hope you will enjoy reading this Bulletin. If you need any more information about TCII, please visit the TCII website at http://www.maebashi-it.org/cyberchair/tcii/index.html. If you are a member of the IEEE Computer Society, you may join the TCII without cost. Just fill out the registration form available on the TCII website mentioned above.

Ning Zhong
(Maebashi Institute of Technology, Japan)
Chair, TCII –
IEEE Computer Society Technical Committee on Intelligent Informatics

Message from the Editors

The IEEE Intelligent Informatics Bulletin is the official publication of the IEEE Computer Society Technical Committee on Intelligent Informatics. The bulletin is intended to provide the community of researchers and practitioners in this vibrant field timely information on latest research, as well as educational and professional activities in areas related to Intelligent Informatics. The bulletin is also intended to serve as a forum for quick dissemination of ideas and experiences for the research community.

The issue contains three exciting feature articles: one on Web search personalization based on an ontology learning approach, one on conversational informatics for human-centered Web intelligence, and one more on ontology discovery for business knowledge management. The R&D profile section highlights the research being done in the intelligent systems group at Florida Institute of Technology. The book review section provides review of the timely book by Zhang, Zhang, and Wu on knowledge discovery in multiple databases. The announcement section contains call for papers for several international conferences of interest to the field of intelligent informatics.

The Bulletin is the result of hard work by the members of the Editorial Board. We would like to express our gratitude to their efforts in working closely with contributing authors to get this issue to you in a timely fashion. We hope that you will enjoy reading the Bulletin and find it informative. We also invite you to send us your comments and suggestions for improving the bulletin as well as your contributions for the various sections of the bulletin for the next issue.

Vipin Kumar
(University of Minnesota)
Editor-in-Chief, IEEE Intelligent Informatics Bulletin

William Cheung
(Hong Kong Baptist University, Hong Kong)
Managing Editor IEEE Intelligent Informatics Bulletin