

DEPARTMENT OF COMPUTER SCIENCE

SEMINAR

2024 SERIES

Machine Learning with Noisy Labels

DATE & TIME

21 MAY 2024 (TUE) 3:00 – 4:00 PM

VENUE

Mr. and Mrs. Lee Siu Lun Lecture Theatre (WLB205),
The Wing Lung Bank Building for Business Studies, Shaw Campus



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ABSTRACT

With the rise of large AI models, data assets have gained increasing importance. Understanding how to identify and correct label errors in our datasets is crucial. This is because label errors are pervasive in the era of big data and rectifying them can significantly enhance our knowledge. Moreover, large AI models are prone to overfitting label errors, which hinders their ability to generalize. In this talk, we will present typical approaches to handle label noise, such as extracting confident examples (indicating likely correct/incorrect labels) using deep network properties. Additionally, we will explore methods that focus on directly modelling the label noise, providing theoretical guarantees for designing statistically consistent algorithms. By illustrating the intuitions behind state-of-the-art techniques, we would equip researchers and practitioners with valuable insights into effectively managing label noise.



SPEAKER'S
BIOGRAPHY



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