

演講公告

時間: 2023.11.30 (四)12:00-14:00

地點: 台達館 106 室

Title: Computational Data Analysis Strategies for Medical Studies

Abstract: Resolving medical studies, specifically those involving genome data, involves advanced computational and analytical approaches. The huge quantities of data and intensifying difficulties of modern medical studies increasingly require the complexity and power of computational techniques for their novel discovery. In this talk, I will demonstrate to use computational data analysis strategies for medical studies.



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BIO

Prof Phoebe Chen is Professor and Chair at the Department of Computer Science and Information Technology, La Trobe University, Melbourne Australia since April 2010. She was Head of Department of Department of Computer Science and Computer Engineering, La Trobe University from 2010 to 2012. Phoebe received her BInfTech degree with First Class Honours and PhD in Computer Science from the University of Queensland in Dec 2000. Phoebe has been awarded 30 research grants around 8 millions (include 13 prestigious Australia Research Council (ARC) Grants) so far. Prof Chen is the Chief Investigator of ARC Centre of Excellence in Bioinformatics. Before she joined La Trobe, Phoebe was Associate Professor (Reader) in Deakin University from Dec 2003 to April 2010. She worked as an Associate Lecturer/Lecturer/Senior Lecturer in Queensland University of Technology from Jul 1999 to Nov 2003. Phoebe is a member of Excellence in Research for Australia 2018 (ERA2018) Research Evaluation Committees (REC) of the ARC, member of an NHMRC Grant Review Panel (GRP) 2019 & 2013-2014, and Project Grant Assigners Academy. Professor Chen has been doing multi-discipline researches for more than 20 years. Her research focus is to find effective solutions for visualizing, integrating, analyzing and mining big data, complex structures and functions for scientific and biomedical applications. She has been working in many emerging areas such as bioinformatics, multimedia, artificial intelligence, scientific visualization, pattern recognition, health informatics, deep learning, data mining, and databases. Her current Research includes Knowledge Discovery for RNA Structure and Function, Deep Learning Approach and its Applications, Visual and Data Analysis in Disease Diagnosis, Medical Image Analysis with Pattern Recognition, Drug Design by Visualization and Machine Learning Approach, Mining Protein and Genome Regulatory Networks using Graphic Models. She has recently been appointed to the ARC College of Experts.

Phoebe has published over 280 research papers, many of them appeared in top journals and conferences such as IEEE Transactions on Neural Networks and Learning Systems, Nature Machine Intelligence, Artificial Intelligence, Bioinformatics, IEEE Transactions on Biomedical Engineering, Pattern Recognition, Molecular Systems Biology, IEEE Transactions on Industrial Informatics, IEEE Transactions on Multimedia, Aging Cell, Nucleic Acids Research, BMC Genomics, Current Drug Metabolism, Journal of Medical Genetics, RNA, IEEE Transactions on Knowledge and Data Engineering, Information Systems, CVPR, AAAI, SIGMOD, ACM MM etc. . Phoebe is/has been associate editor for IEEE Transactions on Neural Networks and Learning Systems and IEEE Transactions on Multimedia, Editor-in-Chief Current Bioinformatics. Phoebe is vice chair of ACM SIGMM, steering committee chair of Asia-Pacific Bioinformatics Conference (founder) and International conference on Multimedia Modelling. She has been on the program committee's chairs and member of over 100 international conferences, including top ranking conferences such as AAAI, ACM MM, ICDE, ICPR, ISMB, CIKM etc.