

CS Seminar

Edge Computing Enabling Clinical Information Processing

Speaker:

Prof. Albert Y. Zomaya

**Centre for Distributed & High-Performance Computing,
School of Computer Science,
University of Sydney, Australia**

Date: December 20, 2023 (Wed)

Time: 11:00am

Venue: Room 308, Chow Yei Ching Building, HKU



Abstract:

The healthcare industry increasingly relies on the analysis of clinical information to provide accurate and timely diagnoses and treatment plans for patients. However, traditional methods of processing and analyzing this information can be slow and resource intensive, leading to delays in patient care and suboptimal outcomes. This is where edge computing comes in, providing a way to process and analyze clinical information at the point of care, improving the speed and accuracy of decision-making.

In this talk, we will explore how edge computing can break down barriers in clinical information processing, leading to improved patient outcomes. We will examine the healthcare industry's key challenges in clinical information processing and how edge computing can help overcome these challenges through faster data processing, increased data privacy and security, and improved decision-making capabilities.

We will also explore how edge computing can be integrated with other emerging technologies, such as machine learning and the Internet of Things, to provide even greater benefits for patients and healthcare providers. Ultimately, this talk will provide valuable insights into how edge computing is transforming the healthcare industry and what it means for the future of patient care.

Biography:

Albert Y. ZOMAYA is Peter Nicol Russell Chair Professor of Computer Science and Director of the Centre for Distributed and High-Performance Computing at the University of Sydney. To date, he has published > 700 scientific papers and articles and is (co-) author/editor of >30 books. A sought-after speaker, he has delivered >250 keynote addresses, invited seminars, and media briefings. He is a past Editor in Chief of the IEEE Transactions on Computers (2010-2014) and the IEEE Transactions on Sustainable Computing (2016-2020), and currently serves as the Editor in Chief of the ACM Computing Surveys.

Professor Zomaya is a decorated scholar with numerous accolades including Fellowships of the IEEE, American Association for the Advancement of Science, and Institution of Engineering and Technology. He is a Fellow of the Australian Academy of Science, Royal Society of New South Wales, Foreign Member of Academia Europaea, and Member of the European Academy of Sciences and Arts. Also, Professor Zomaya is a Clarivate 2022 and 2023 Highly Cited Researcher. His research interests lie in distributed computing, networking, and complex systems.

All are welcome.

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