

Distinguished Lecturer Visit by Prof. S. Joe Qin at IEEE SMCS NSW Chapter, Australia, June 25-28, 2026

Prof. S. Joe Qin visited the University of Technology Sydney, on June 26, 2026, where he delivered an IEEE Distinguished Lecture (at Room CB02.12.225, UTS) titled "Latent Low-Dimensional Predictor Analytics for Engineering Applications" to the SMCS New South Wales (NSW) Chapter in Sydney, Australia, organized by Prof. Tongliang Liu, Dr. Xianzhi Wang and Prof. Daoyi Dong. The IEEE SMC Society's New South Wales Chapter was recently established in 2025, led by the Chapter Founding Chair/Vice Chair, Prof Daoyi Dong and Prof. Tongliang Liu, and currently Chaired by Prof. Tongliang Liu.

Prof. Joe Qin is the Wai Kee Kau Chair Professor of Data and President of Lingnan University in Hong Kong. He is a member of the European Academy of Sciences and Arts and Fellow of the Hong Kong Academy of Engineering Sciences, the U.S. National Academy of Inventors, IFAC, AIChE, and IEEE, and won many prestigious awards. The distinguished lecture by Prof. S. Joe Qin attracted over 30 participants. In his lecture, he presented a probabilistic latent vector autoregressive framework, known as Principal Predictor Analysis (PPA), where dimension reduction and optimal dynamic prediction are simultaneously achieved. The PPA solution is a dynamic parallel to principal component analysis and can separate predictable content from uncorrelated noise, different from PCA and auto-encoders. He presented some potential applications of PPA in process monitoring, control, and troubleshooting for predictive maintenance.

Moreover, Prof. S. Joe Qin visited UNSW Sydney, especially School of Electrical Engineering and Telecommunications, Australia on June 25, 2026, visited the ARC Research Hub for Human-Robot Teaming for Sustainable and Resilient Construction at UTS on June 26, 2026, and met colleagues from the University of Sydney on June 27, 2026. These visits and meetings simulated interaction and idea exchange between Prof. Qin and researchers in the research community in Australia.

Prof. Qin's lecture stimulated meaningful discussions with many SMCS members in Sydney, providing participants with deep insights into processing multi-dimensional time series in engineering, science, and economics. The success of these events reflects the NSW Chapter's commitment to promoting knowledge exchange, with appreciation extended to the SMC Society and the DLP Program, coordinated by Prof.ssa Mariagrazia Dotoli.



Figure 1: Prof. S. Joe Qin presents the IEEE SMCS Distinguished Lecture on June 26, 2026, at the University of Technology Sydney, Sydney.



Figure 2: Part of on-site attendees after the IEEE SMC Society Distinguished Lecture.

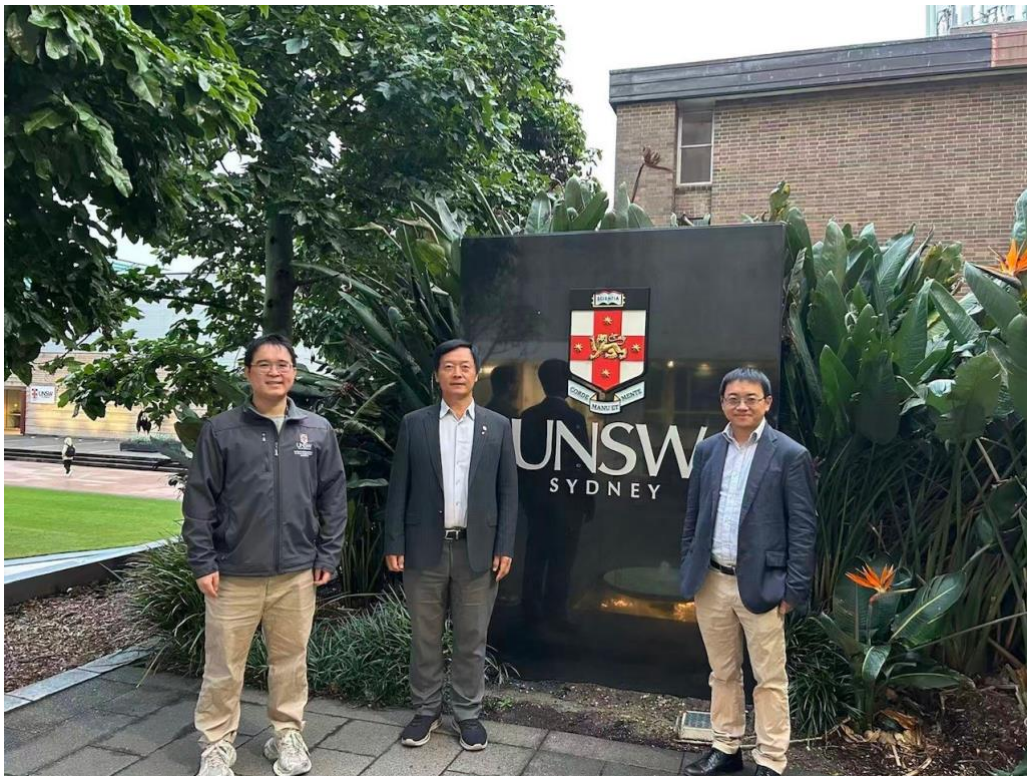


Figure 3: Prof. S. Joe Qin visited UNSW Sydney, Australia on June 25, 2026.