

# **Report on Professor Peng Shi's Visit to IEEE Beijing Section SMC and RA Joint Societies Chapter and Chongqing University**

Invited by IEEE Beijing Section SMC and RA Joint Societies Chapter, Professor Peng Shi, a Distinguished Professor from University of Adelaide, Australia visited IEEE Beijing Section SMC and RA Joint Societies Chongqing Chapter (hosted by Chongqing University), from 13-18 April 2025.

Professor Shi delivered two IEEE SMC Distinguished Lectures:

## **Multi-Agent Systems --Applications and Challenges**

April 14, 2025 14:30-16:00, Room D1144, Huxi Campus, Chongqing University

## **Hybrid Attacks Design on Cyber-Physical Systems**

April 16, 2025, 19:00-20:30, Room D1144, Huxi Campus, Chongqing University

His two talks provided a comprehensive overview of the current landscape and future challenges in multi-agent systems (consensus, formation, swarm and flocking), and cyber-physical systems (fault detection and tolerant control, cybersecurity issues), highlighting its applications in various fields such as intelligent manufacturing systems, industrial process optimization, traffic signal management, and medical diagnostic systems. Professor Shi also introduced IEEE SMC Society, providing a comprehensive overview of its core mandates, organizational architecture, and historical evolution. He highlighted the society's strategic contributions to advancing artificial intelligence, particularly through its facilitation of human-AI symbiosis research and standardization of cognitive computing frameworks.

During his stay, Professor Shi engaged with faculty members and students, offering valuable insights into the advancements and challenges within the realms of intelligent control systems. The interactions facilitated a deeper understanding of these complex topics and sparked discussions on potential collaborative research opportunities.

In addition to his presentation, Professor Shi visited several research laboratories at Chongqing University, including those led by Prof. Xiaojie Su, Chair of the Chapter. He was briefed about ongoing projects in the laboratories and had in-depth discussions with staff members and students. His visit established future collaborations among the Chongqing Chapter, Chongqing University and the University of Adelaide.

Professor Shi's visit enriched the academic exchange activities at Chongqing University and the IEEE Beijing Section SMC and RA Joint Societies Chapter. We look forward to his visit again soon.

IEEE Beijing Section SMC and RA Joint Societies Chongqing Chapter

Chair: Professor Xiaojie Su

Dean, College of Automation

Chongqing University, China



