

# 2025 5<sup>TH</sup> INTERNATIONAL CONFERENCE ON CONTROL THEORY AND APPLICATIONS

2025 5th International Conference on Control Theory and Applications (ICoCTA 2025) will be held in Chengdu, China during September 19-21, 2025. It is technically co-sponsored by IEEE and IEEE Chengdu Section, organized by Southwest Jiaotong University, co-organized by University of Electronic Science and Technology of China and Xi'an Jiaotong University.

## Special Sessions

### Session I : Modeling, Control and Optimization of Complex Systems

Chair: Prof. Ze Tang, Jiangnan University, China

### Session II : Modeling, Control and Analysis of Mixed Traffic Flow with Autonomous Vehicles

Chair: Prof. Wenxing Zhu, Shandong University, China

### Session III: Advances in Decision-making, Tracking and Control for Unmanned System

Chair: Prof. Panlong Wu, Nanjing University of Science and Technology, China

### Session IV: Advances and Innovations in Multi-source Information Fusion, Navigation and Guidance Technology

Chair: Prof. Shuai Chen, Nanjing University of Science and Technology, China

### Session V : Design, Control and Optimization of Green Hydrogen Integrated Energy Network System

Chair: Prof. Yunfeng Peng, Shanghai Jiao Tong University, China

### Session VI: Advanced Control Theory and Applications of Intelligent Systems

Chair: Assoc. Prof. Jianqi Chen, Nanjing University, China

### Session VII: Superlinear Convergence Consensus and Distributed Optimization Based on New Optimization Methods

Chair: Assoc. Prof. Hongxia Wang&Assoc. Prof. Liping Zhang, Shandong University of Science and Technology, China

### Session VIII: Process Monitoring and Recovery Techniques for Industrial Processes

Chair: Prof. Linlin Li, University of Science and Technology Beijing, China

### Session IX: Modeling, Control and Analysis of Autonomous Search System in Uncertain Environment

Chair: Prof. Jianwen Huo, Southwest University of Science and Technology, China

### Session X : Analysis and Control of Discrete-event Systems

Chair: Prof. Zhiwu Li, Macau University of Science and Technology, China

### Session XI: Modeling, Detection, and Optimization of Complex Systems

Chair: Assoc. Prof. Mei Yu, North China Electric Power University, China

## Keynote Speaker

### Prof. Lei Guo

Academician of Chinese Academy of Sciences  
IEEE Fellow and IFAC Fellow  
National Center for Mathematics and Interdisciplinary Sciences, CAS, China

### Prof. Yaochu Jin

Member of Academia Europaea and IEEE Fellow  
Westlake University, China

### Prof. Hideaki Ishii

IEEE Fellow and IFAC Fellow  
The University of Tokyo, Japan

### Prof. Zuyi Li

IEEE Fellow  
Zhejiang University, China

## Publication Information

All accepted and presented papers will be included in ICoCTA 2025 conference proceedings (ISBN: 979-8-3315-1529-4), which will be published by IEEE and submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements, and also submitted to Ei Compendex and Scopus for indexing.

## Submission

<https://cmt3.research.microsoft.com/ICoCTA2025>



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## Key Dates

Abstract Submission Due: August 5, 2025  
Full Paper Submission Due: August 20, 2025

Technically Co-sponsored by: IEEE IEEE Chengdu Section

Organized by: 西南交通大学  
Southwest Jiaotong University

Co-organized by: 电子科技大学  
University of Electronic Science and Technology of China 西安交通大学  
XI'AN JIAOTONG UNIVERSITY