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ICoCTA 2026

Qingdao, China | October 23-25, 2026

2026 6TH INTERNATIONAL CONFERENCE ON CONTROL THEORY AND APPLICATIONS

2026 6th International Conference on Control Theory and Applications (ICoCTA 2026) will be held in Qingdao, China during October 23-25, 2026. It is organized by Shandong University of Science and Technology, hosted by College of Electrical Engineering and Automation of Shandong University of Science and Technology, co-organized by Shandong University, Qingdao University and School of Robotics and Automation of Nanjing University, and technically co-sponsored by IEEE, IEEE Control Systems Society and IEEE Systems, Man, and Cybernetics Society.

Call for Special Session Submissions

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

Session II : Advances in Intelligent Perception, Decision-making and Control for Unmanned Systems

Session III : Progress and Innovations in Multi-Source Information Fusion, Navigation, and Guidance Technologies

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

Session V : Advanced Control Theory and Applications of Intelligent Systems

Session VI : Learning Control and Games of Networked Systems

Session VII : Secure State Estimation and Control for Networked Systems

Session VIII : Control, Learning, and Games of Complex Systems: Theory and Methods

Session IX : Advances in Stability Analysis and Intelligent Control for Stochastic Systems

Session X : Modeling, Control, and Optimization for Complex Systems

Session XI : Autonomous Multi-Agent Systems in Robotics: Perception, Decision-making, Control, Learning, and Optimization Methods

Session XII : Embodied Intelligent Robotic Joint Technologies: Innovative Design and Applications

Session XIII : Aerial Launch and Recovery for Mother-Daughter UAV Systems

Session XIV : Perception, Control, and Optimization of Intelligent Transportation Systems

Session XV : New Advances in the Theory and Application of Optimization Algorithms

Session XVI : System Intelligence and Safety Supervision Technology for Low-altitude Aircraft

Session XVII : Data-Driven Sparse Modeling and Intelligent Soft Sensing for Complex Industrial Processes

Session XVIII : Optimal Operation and Control in Power Systems with Hydrogen Energy Collaborations

Session XIX : Methods and Applications for Intelligent Industrial Alarm Optimization, Analytics, and Root Cause Tracing

Session XX : Advanced Control Techniques for Embodied Intelligent Robots Under Uncertain Working Conditions

Session XXI : Motion Planning and Robust Control for Unmanned Aerial Vehicles

Session XXII : Intelligent Control and Application of Robot Systems in Complex Environments

Keynote Speaker

Prof. Tianyou Chai
Member of the Chinese Academy of Engineering
IEEE Life Fellow and IFAC Fellow
Northeastern University, China

Prof. Lihua Xie
SAEng Fellow, IEEE Fellow and IFAC Fellow
Nanyang Technological University

Prof. Long Wang
Winner of National Science Fund for Distinguished Young Scholars
Peking University, China

Prof. Xinping Guan
Winner of National Science Fund for Distinguished Young Scholars
IEEE Fellow
Shanghai Jiao Tong University, China

Publication Information

Registered and presented full papers will be included in the ICoCTA 2026 digital conference proceedings (ISBN: 979-8-3195-1578-0), 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 major citation databases (including, but not limited to Ei Compendex and Scopus) for review and indexing.

Submission

https://cmt3.research.microsoft.com/ICoCTA2026

Organized by: 山东科技大学 SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Hosted by： 电气与自动化工程学院 College of Electrical Engineering and Automation

Organized by： 山东大学 SHANDONG UNIVERSITY · 青岛大学 QINGDAO UNIVERSITY · 南京大学 · 机器人与自动化学院 School of Robotics and Automation

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Key Dates

Final Round

Registration Due: October 9, 2026

Final Paper Submission Due: October 9, 2026

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