Pacific Optimization Research Activity Group

The First Announcement

The 12th International Conference on Optimization: Techniques and Applications (ICOTA 2026)

Shanghai, China
April 10–12, 2026

About

The International Conference on Optimization: Techniques and Applications (ICOTA) is an official conference series of the Pacific Optimization Research Activity Group (POP). Like previous ICOTA conferences, the primary objective of ICOTA is to serve as an international forum for scientists, researchers, software developers, and practitioners to exchange ideas and methodologies, present research findings and state-of-the-art solutions, and share experiences regarding the opportunities and challenges in the field. Furthermore, ICOTA seeks to foster collaboration and to open new avenues of research and development across all areas of optimization and its diverse applications.

Conference History

ICOTA has a rich history of bringing together leading researchers, academics, and practitioners in the field of optimization theory and its applications. Since its inception, ICOTA has served as a key platform for sharing innovative ideas, fostering collaborations, and advancing both theoretical and applied research in optimization.

The first two ICOTA conferences were organized in Singapore in 1987 and 1992, establishing the foundation for what would become a recurring international forum. Following these early successes, ICOTA transitioned into a structured and highly respected conference series, guided by a dedicated steering committee to ensure continuity and scientific excellence. The third ICOTA conference took place in Chengdu, China, in 1995, followed by the fourth ICOTA in Perth, Australia, in 1998. These conferences helped expand the reach of ICOTA to the Asia-Pacific region and attracted participants from a growing number of countries. The series continued to flourish with: ICOTA 5 in Hong Kong (2001), ICOTA 6 in Ballarat (2004), ICOTA 7 in Kobe (2007), ICOTA 8 in Shanghai (2010), ICOTA 9 in Taipei (2013), ICOTA 10 in Ulaanbaatar (2016), ICOTA 12 in Hakodate (2019). Over the years, ICOTA has become a major forum for presenting cutting-edge research, exchanging ideas, and promoting collaborations across academia and industry. The conference covers a broad spectrum of topics, including mathematical optimization, computational algorithms, optimal control, multi-objective decision-making, and their applications in engineering, energy, transportation, logistics, finance, and environmental systems.

ICOTA2026, to be held in Shanghai, marks the 12th edition of this prestigious series. The conference aims to continue the tradition of excellence by bringing together global experts to discuss recent advances, share innovative computational methods, and foster collaborations across theory and applications. ICOTA 2026 is expected to be a milestone event, strengthening the international research community and further advancing the role of optimization in solving complex real-world problems.

Research Topics

Optimization Theory:
- Linear Programming
- Nonlinear Programming
- Integer Programming
- Network Programming
- Semi-Definite Programming
- Stochastic Programming
- Dynamic Programming
- Optimal Control
- Global Optimization
- Nonsmooth Optimization
- Semi-Infinite Programming
- Multi-Objective Optimization
- Variational Inequalities
- Complementarity Problems
- Mathematical Programs with Equilibrium Constraint
- Optimization Theory and Algorithms in Artificial Intelligence

Optimization Algorithm:

- Design
- Analysis
- Implementation of Traditional Mathematical Programming Methodology
- Modern Techniques such as Meta-Heuristic for Combinatorial and Continuous Optimization
- Machine learning

Optimization Application:

- Engineering
- Nonlinear Systems
- Stochastic System Control
- Data/Text Mining from Large Databases
- Intelligent Information and Technology
- Systems Science
- Knowledge Management
- Information and Communication Networks
- Transportation
- Scheduling
- Logistics
- Finance
- Game Theory
- Industrial Engineering
- Management Science
- Operations Research

Proposals for special sessions/steam focusing on specific topics are also welcome.

Website and Email

The conference website is: https://jcxy.sues.edu.cn/ICOTA2026

The conference email is: icota2026@163.com

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(Updating)

Supported by

Association of Asia-Pacific Operational Research Societies