

Message from the General Chairs and PC Chairs

CIC 2023

The Internet has facilitated the development of infrastructures, applications, and technologies that greatly enhance global interactions and collaborations, resulting in a transformative impact on society. The Internet and the increasing number of collaborative technologies have made it possible to create cyber-social and cyber-physical infrastructures and systems that transcend geographical boundaries. Individuals and organizations now heavily rely on electronic or Internet-enabled collaboration among distributed teams consisting of humans, computer applications, and autonomous robots to achieve higher productivity. This collaborative approach allows for the development of products and ideas that would have been impossible without the contributions of multiple collaborators.

Technology has progressed from individual tools to open systems that facilitate collaboration across multiple organizations. It has also shifted from general-purpose tools to specialized platforms for collaboration. To fully realize the potential of global-level collaboration, future solutions in collaboration and Internet computing necessitate advancements in networking, technology, and systems. Additionally, improvements are needed in user interfaces and interaction, cooperation and collaboration paradigms, as well as interoperability with application-specific components and tools.

IEEE CIC is designed to be the primary international forum for academic and industrial researchers and practitioners interested in Internet technologies, applications, services, collaborative networking, technology and systems, and applications.

This year, the main focus of IEEE CIC is centered around three themes: Enabling Internet-scale collaborative networking & computing, Approaches to collaboration, and applications of Internet collaborative computing. We have received submissions from over 4 countries including North America, India, and Asia. These submissions cover a range of interesting topics such as Internet-based technologies and infrastructure for collaboration, cloud to fog/edge for collaborative computing, data and service models for collaboration, system engineering metrics and performance cyber science and data science security privacy and trust in collaborative computing resilient and trustworthy internet big data analytics for data-driven collaboration social computing for collaboration cognitive computing and collaboration. The program includes 15 papers organized into one regular-paper research session as well as three Blue Sky/Vision papers sessions. Additionally, the conference will feature four keynotes and three plenary panels with distinguished speakers from IEEE TPS 2023 and IEEE CogMI 2023 which are co-located with IEEE CIC 2023.

We take this opportunity to thank all the authors who submitted their work to the conference. We thank the entire conference organizing committee for their hard work on logistics and proceedings and publication matters. Especially we would like to thank the Coordination Chairs: Dr. Shu-Ching Chen from the University of Missouri-Kansas City, USA and Dr. Amir Masoumzadeh from SUNY, Albany. Vision Track Chairs: Dr. Elisa Bertino from Purdue University, USA; Dr. Paolo Boldi from University of Milan, Italy; Dr. Tarek Abdelzaher from University of Illinois at Urbana Champaign, USA. Industry track Chairs: Dr. Ashish Kundu from Cisco, USA; Dr. Abhishek Kumar from Google Brain; Dr. Frederico Araujo from IBM T. J. Watson Research Center. Workshops Chairs: Dr. Runhua Xu from Beihang University, China and Dr. Julian Jarrett, Lutron from Electronics, Philadelphia, USA & Lecturer, ICPC Director (Jamaica). Publicity Chair: Dr. Wenqi Wei from Fordham University, USA. Finance and Local Arrangements Chair: Dr. Julian Jarrett from Lutron Electronics, Philadelphia, USA & Lecturer, ICPC Director (Jamaica). Proceedings Chair: Dr. Runhua Xu from Beihang University, China. Web Chair: Jingzhe Wang from the University of Pittsburgh, USA. We also would like to take this opportunity to thank Ms. Cristina Ceballos from IEEE

CPS for their excellent support throughout the year; and Mr. Patrick Kellenberger for their support in arranging our proceedings in a timely manner. We would like to express our appreciation to the steering committee for its strong support.

We are excited to see all of you online and welcome you to the 2023 IEEE CIC event. We hope you will enjoy this exciting technical program as much as we enjoyed putting it together.

Sincerely,

Dimitrios Georgakopolous, *Swinburne University of Technology, Australia*
Mei-Ling Shyu, *University of Missouri-Kansas City, USA*
CIC 2023 General Co-Chairs

Indrajit Ray, *Colorado State University, USA*
Barbara Carminati, *University of Insubria, Italy*
CIC 2023 PC Co-Chairs