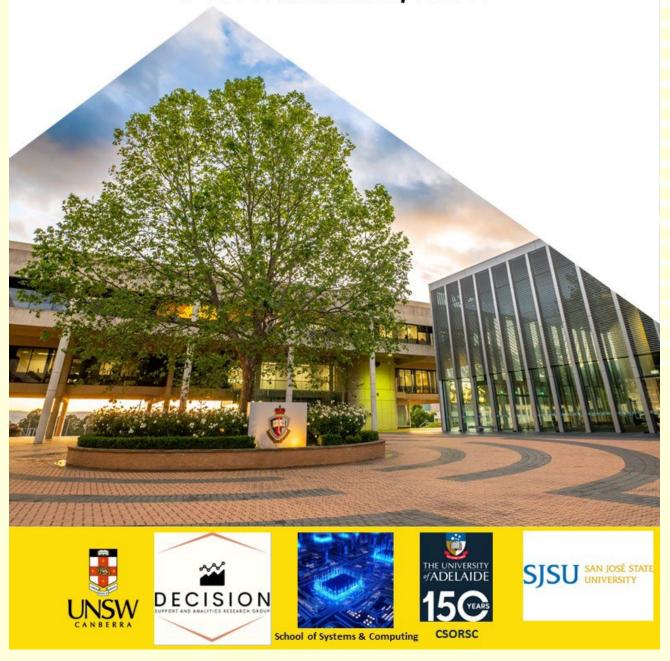# The 51st International Conference on Computers & Industrial Engineering (CIE51)

UNSW Sydney, Sydney, Australia.
9-11 December, 2024

The **51st International Conference on Computers and Industrial Engineering (CIE51)** will be co-hosted by the [Decision Support & Analytics Research Group (DSARG)](#) from the School of Systems & Computing (Syscom) at UNSW Canberra (Australia) and the [Centre for Sustainable Operations and Resilient Supply Chains (CSORSC)](#) at the University of Adelaide (Australia), between **9th and 11th December 2024**. The venue for this conference will be the [Colombo Building, Kensington Campus, UNSW Sydney, Sydney, Australia](#).

CIE51 aims to gather researchers to disseminate and discuss state-of-the-art advancements in the areas of Industrial Engineering, supply chain management, operations management, Computer science, Manufacturing, Management, and other related areas. The conference will witness the participation of distinguished speakers worldwide in the different disciplines of Industrial Engineering, with keynote speeches from distinguished scientists on advanced topics.

This is the latest in the series sponsored by [Computers & Industrial Engineering: An International Journal](#), published by Elsevier. Its Impact Factor was 7.9 in 2023, and its Cite Score was 11.9 for the same year, placing it at the 96th percentile among general engineering journals (Q1 per the Web of Science and ABDC ranking 'A').

Technical Areas (include, but not limited to):

The conference theme will be "Towards Smart, Sustainable, and Resilient Systems".

The CIE51 program will include guest speakers, peer-reviewed technical program, demos, short papers, posters, invited sessions on the same or related topics, industrial presentations, editorial board, industry panels, and exhibitions around but not limited to the following topics:

- **Smart Manufacturing Systems**

- **Additive Manufacturing and 3D printing**

- **Industrial Internet of Things**

- **Cyber-Physical Systems**

- **Humanitarian and Emergency Logistics**

- **Simulation Optimization & Applications**

- **Manufacturing Innovation**

- **Resilient Smart Factories**

- **Reliability Engineering and Predictive Maintenance**

- **Human Factors Engineering and Ergonomics**

- **E-Business and E-Commerce**

- **Sustainable and Smart Transportation Systems**

- **Quality Control and Management**

- **Decision Support Systems**

- **Production Planning and Operations Scheduling**

- **Technology and Knowledge Management**

- **Digital Transformation**

- **Big Data Analytics & Applications**

- **Resilience Supply Chains and Logistics Model**

- **Operations Research and Optimization**
- **Facilities Planning and Design**
- **Lean Manufacturing and Six Sigma**
- **Design for X**
- **Data Mining and Business Intelligence**
- **Artificial Intelligence and Machine learning applications**
- **Product Process, Service, and Software Design Management**
- **Reverse Engineering**
- **Smart Cities Management Models**
- **Healthcare Management Systems**
- **Sustainable Supply Chain Management**
- **Project Management and Control**
- **Enterprise Resource Planning Systems**
- **Circular Economics**
- **Optimization of renewable energy resources**

Important Dates:

Special Session Submission Deadline:	**15th of May 2024**
Abstract Submission Deadline:	**30th May 2024**
Full Paper Submission Deadline:	**30th June 2024**
Acceptance Notification:	**15th August 2024**
Early Bird Registration Deadline:	**30th August 2024**
Final Paper Submission Deadline:	**30th September 2024**
Conference Date:	**9th -11th December 2024**

Proceedings and Special Issue:

Conference proceedings carrying the ISSN identifier of CIE50 for the CD-ROM version and 2164-8689 for the online version. Both are also indexed in Scopus and El Compendex. The proceedings will be published by Curran & Associates and posted on the website https://www.computers-and-ie.org/.

Extended versions of selected articles will be published in a special issue of ELSEVIER Computers and Industrial Engineering Journal (ISSN 0360-8352). Some other special issues will be organized and announced on the conference webpage later. A few under discussion are- IEEE Engineering Management Review Journal, Annals of Operations Research, International Journal of Production Research, and Transportation Research Part E: Logistics and Transportation Review.

Conference Website:

Updated and detailed information on CIE51 will be published on the website of the conference at https://conference.unsw.edu.au/en/the-51st-international-conference-on-computers-and-industrial-engineering

Competitions and Awards:

- – **Best conference paper award certificate**
- – **Best student paper award**
- – **Best poster award**
- – **Best undergraduate senior project award**

Paper submission:

CIE51 offers two options for paper submissions and publications at the same registration rate:
- i. **Full papers are reviewed for presentation at the conference as well as for publication in the conference proceedings.**
- ii. **Abstracts(only) will be reviewed for presentation at the conference without publishing in the conference proceedings.**

All papers submitted to this conference will be peer-reviewed.

Call for special sessions:

The goal of special sessions is to provide focused discussions on new topics or innovative applications. Each prospective session organizer must submit a proposal, including the title of the session, a short description, and the organizer's name. Please get in touch with us as soon as possible for assistance in the organization of your special session.

Conference Co-Chairs:

Dr Ripon K. Chakrabortty, Leader & Founder of the Decision Support & Analytics Research Group (DSARG), School of System & Computing, UNSW Canberra, Australia.
Dr Hasan H Turan, Research Lead at the Capability Systems Centre, School of System & Computing, UNSW Canberra, Australia.
Prof Kannan Govindan, Director of CSORSC at the University of Adelaide, Australia, and Chair Professor at the University of Southern Denmark, Denmark.
Prof Yasser Dessouky, San Jose State University, United States of America.

Local Organising Committee Members

1. **Dr Firouzeh Taghikhah, University of Sydney, Australia.**
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23. **Associate Professor Indra Gunawan, University of Adelaide, Australia.**
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26. **Dr Anthony Sexton, UNSW Canberra, Australia.**
27. **Dr Alireza Abbasi, UNSW Canberra, Australia.**

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Contact Information

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