ASEE Annual Conference 2024
Computing and Information Technology Division
Call for Papers

The **COMPUTING AND INFORMATION TECHNOLOGY DIVISION (CIT)** invites abstracts and subsequent papers for the 2024 ASEE Annual Conference being held in Portland, Oregon, June 23 - 26, 2024. CIT is a multidisciplinary group with interests in education in computing and information technology, applied information engineering, systems integration, and information technology management. **Papers that are accepted by the CIT division are automatically considered eligible for the CIT Best Paper Award.** The CIT Best Paper is then considered for the ASEE Annual Conference Best Paper award, competing against the Best Papers from other divisions.

The CIT division encourages contributors from any discipline to submit relevant abstracts for the 2024 ASEE Annual Conference. CIT Division also accepts research articles under "**Work in Progress**" category. Topics of interest to CIT include, but are not limited to, the following areas:

High Performance Computing:

- Cloud Computing
- Virtualization
- Cluster Computing
- Parallel Computing
- Multicore Computing
- Grid Computing
- Computing in Biology

- Cyberinfrastructure Systems
- Operating Systems for Parallel and Distributed Systems
- Fault Tolerance and Testing in Computing
- Teaching Parallel Application Development
- Multi-tier and Enterprise Processing
- Computing in Healthcare System
- Bioinformatics

Networking and Security:

- Robotic Networking
- Network Security
- Embedded Security
- Wired and Wireless Networking

- Local and Global Privacy and Security Standards
- Designing Security into Integrated Systems
- Information Assurance and Security
- Web Services and Internet Computing

Database Systems:

- Parallel Databases
- Mobile Database
- Data Engineering
- Big-Data Analysis

- Data Mining and Warehousing
- Distributed Databases
- Embedded Databases

Embedded and Cyber-Physical Systems:

- Real-Time Systems
- Mobile Applications
- Smart Cities
- Mobile Systems

- Mobile and Ubiquitous Computing
- Wireless Sensor Networks
- Smart Grids

Student Recruitment, Curriculum, and Other Issues in Computing and Information Technology Education:

- Women in Computing
- K-12 to College Computing Curricula
- Assessment Approaches for the Computing Curricula
- Innovation in Computing Systems in Education
- Novel Uses of Information Technology for Instruction
- Computer Science & Information Systems Student Recruitment Activities
- Capstone Experiences in Information and Computing Curricula
- Computer Science and Information Technology Education
- Undergraduate Research Involving Information and Computing

Miscellaneous Areas of Interest:

- Artificial Intelligence
- Software Defined Radio
- Nanotechnology
- Internet of Things
- Computational Intelligence
- Machine Learning
- Human Computer Interaction and Visualization
- Enterprise Systems Architecture / Administration
- Infrastructure for Remote Education
- Remote Access Laboratories

Abstracts must be submitted through the ASEE's submission system by **November 1st, 2023**. Each abstract should be approximately 500 words. Authors are encouraged to read the Author's Kit available on the conference website for additional information about submission procedures.

Authors of accepted abstracts will be invited to prepare a full paper for peer review for publication in the conference proceedings. CIT has a Publish-to-Present policy which states that a paper must be both submitted and accepted for publication to present at the annual conference.

CIT Division also seeks proposals for workshops and special sessions related to computing and information technology and for the annual conference. These workshops and sessions should be of interest to engineering educators and are intended to be highly interactive. Special sessions can take the form of a discussion panel or a group of papers on a topic of significance. Please submit proposals to the program chair.

Please contact any of the following for questions and clarifications

2024 CIT Program Chair:

Afsaneh Minaie, Ph.D.
Professor of Computer Engineering
Department of Engineering,
Utah Valley University
800 W. University Parkway
Orem, UT, 84058
Phone: 801-863-6391
Email: minaieaf@uvu.edu

2024 CIT Division Chair:

Mudasser F. Wyne, Ph.D.
Professor of Computer Science,
School of Technology and Engineering,
National University,
9388 Lightwave Avenue,
San Diego, CA-92123
Phone: (619) 430 3496,
Email: mwyne@nu.edu