



IDETC-CIE 2022
International Design Engineering
Technical Conferences & Computers
and Information in Engineering
Conference

St. Louis Union Station Hotel, St. Louis Missouri

Conference: August 14 – 17, 2022

Exhibition: August 15 – 17, 2022

42ND ASME COMPUTERS AND INFORMATION ENGINEERING CONFERENCE (CIE)

CALL FOR PAPERS

<https://event.asme.org/IDETC-CIE>

The CIE Division is excited to put out all call for papers for the 42nd CIE Conference, to be held in August 14-17, 2022, St. Louis, Missouri, USA. All four CIE tracks are soliciting papers in all aspects of computer applications on experimental, numerical, or analytical studies, with emphasis on the highlighted topic areas.

TRACK SYMPOSIUMS

- Advanced Modeling and Simulation (AMS)
- Computer-Aided Product and Process Development (CAPPD)
- Virtual Environments and Systems (VES)
- Systems Engineering Information Knowledge Management (SEIKM)

TRACK SYMPOSIUM TOPICS

- AMS: Inverse Problems in Science and Engineering
- AMS: Computational Multiphysics Applications
- AMS: Uncertainty Quantification in Simulation and Model Verification & Validation
- AMS: Simulation in Advanced Manufacturing
- AMS: Material Characterization Methods and Applications
- AMS Panel (Call for proposals)
- CAPPD: Human in the Loop for Product Design, Training, and Manufacturing
- CAPPD: Digital Human Modelling for Design and Manufacturing
- CAPPD: Product and Process Design Automation for Industry 4.0
- CAPPD: Computational Fabrication for Product Design and Development
- SEIKM: Design Informatics
- SEIKM: Smart Manufacturing Informatics
- SEIKM: Systems Engineering and Complex Systems
- SEIKM: Knowledge Capture, Reuse, and Management
- SEIKM Special Session: Mission Engineering
- VES: Technologies for VR, AR, and MR (Methods, Processes, and Applications)
- VES: Video Presentation Exhibit: Visualization and Virtual Demonstration of Prototypes and Simulations

CIE JOINT TOPICS

- AMS/CAPPD: Digital Twin: Advanced Human Modeling and Simulation in Engineering
- AMS/CAPPD/SEIKEM: Design, Simulation and Optimization for Additive Manufacturing
- AMS/CAPPD/SEIKEM: Artificial Intelligence and Machine Learning in Design and Manufacturing
- SEIKEM/DTM: Human System Integration
- Graduate Student Poster Symposium

CIE PANELS

- AMS Panel (Call for proposals)
- SEIKEM Panel: Digital Twin
- VES PANEL: Virtual, Augmented, and Mixed Reality Panel (Call for proposals)

Selected papers will be published in ASME *Journal of Computing and Information Science in Engineering* (JCISE). Five Best Papers will be awarded, including CIE Conference Best Paper and AMS, CAPPD, SEIKM and VES Best Paper.

CONFERENCE ORGANIZERS:

Conference Chair: Paul Witherell
National Institute of Standards & Technology (NIST),
Gaithersburg, MD 20899, USA, paul.witherell@nist.gov

Program Chair: Caterina Rizzi
University of Bergamo
Bergamo, Italy, caterina.rizzi@unibg.it

IMPORTANT DATES

- **Submission of Full-Length Paper for Review**
February 14, 2022
- **Paper Acceptance Notification**
March 28, 2022
- **Presentation Only and Poster Submission Deadline**
April 11, 2022
- **Final Paper Submission**
May 16, 2022