



The 16th International Conference on Computer Science and Education (ICCSE 2021)

Lancaster, United Kingdom. August 17-21, 2021.

Call for Papers

(IEEE Conference #: TBD)

Brief History

From its inception in 2006, the International Conference on Computer Science and Education (ICCSE) has been held in Xiamen, Wuhan, Kaifeng, Nanning, Hefei, Singapore, Melbourne, Sri Lanka, Vancouver, Cambridge, Nagoya, Houston, Toronto, and Delft for 14 years. Many internationally renowned experts, IEEE Fellows, and Academicians in the fields of *Computer Science, Educational Technology, Science and Engineering* have participated in these events and have made innovative and outstanding presentations. The visitors and participants of the conference include experts, academics, scientists, technologists, engineers, and other professionals from well-known and leading institutions of higher learning, research and enterprise. These activities have made the conference an excellent and effective platform for international academic communication, innovation and corporation.

About ICCSE 2021

The 16th International Conference on Computer Science & Education (ICCSE 2020) will be held in Lancaster, the United Kingdom during August 17-21, 2021. ICCSE 2021 is organized by the China National Research Council of Computer Education in Colleges & Universities (CRC-CE), hosted by Lancaster University, United Kingdom, and with the technical sponsorship of IEEE Education Society. Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

Selected papers from the conference will be recommended for publication in relevant, high-quality journals.

The conference will consist of technical presentations including refereed papers, special workshops about current emerging topics and active research areas, invited sessions, poster sessions, panel discussions, and a special journal contributor session. In the special journal contributor session, editors of some recommended EI-indexed international journals will interact with potential contributors (conference paper authors) and discuss procedures and tips for journal paper submission.

Conference Theme

Digital Twin Computing & Education

General Scope

Computer Science

- Hardware/Software infrastructure
- Machine learning/AI
- Computer human interaction
- Control and communication
- Natural language processing
- Deep learning
- Information security
- Cloud computing
- Soft computing and intelligent systems
- Mechatronics and Robotics
- Digital twin modeling
- Cognitive digital twins

Data Science

- Intelligent data mining
- Knowledge discovery
- Visualization of Big Data
- Social Media and Big Data analysis
- Techniques, models and algorithms
- Tools, software and system engineering
- Models and approaches of Data Science
- Big Data trends and challenges
- Digital twin optimization

Educational Technology

- Collaborative and cooperative education
- Smart learning and education
- AI applications in education practice

- Tools and systems for life-long learning
- Education and learning practice
- Massive learning online course
- Curricula and courseware design
- Innovation and reform in education based on new IT
- Online teaching and learning technologies
- Augmented reality and virtual reality

smart-Society/ Society Digital Twin

- Personal digital twins
- Digital economy
- Smart traffic with digital twin
- Culture protection by new IT/ICT
- Environment protection by new IT/ICT
- privacy, identity and trust in e-society
- e-Health/Smart healthware
- Children and senior citizens in an e-society

Industrial Design

- Computational design
- Material and digital fabrication
- 3D scanning
- Human-robot cooperation
- Data-centric design
- Design for sustainability
- Human-centered design
- Digital twin assisted design optimization

Paper Submission:

Authors should submit the full version of their manuscripts online through the conference submission system at <http://easychair.org/conferences/?conf=iccse2021>.

All submissions must be written in English. The submitted manuscripts should contain sufficient details including key concepts and novel features of the work, and must be formatted according to IEEE's Two-Column Format for Conference Proceedings and not exceed 6 pages including all text, references, appendices, tables, and figures. Templates are available at the conference website



<https://www.ieee.org/conferences/publishing/templates.html>. The submissions should be made in the PDF format, which is IEEE PDF eXpress compliant. To ensure the quality and the format of their papers, authors are strongly recommended to review the papers published in previous ICCSE proceedings.

The program committee will recommend selected high-quality papers for publication in the International Journal, *Mechatronic Systems and Control (formerly Control and Intelligent Systems)*, published by ACTA press, and indexed by ESCI and EI. The journal will carry out a second-round blind review prior to publication.

Important Dates

Paper Submission Deadline: **April 15, 2021**
Decision Notification: **May 15, 2021**
Submission of Final Versions and Author
Registration: **June 1, 2021**

Registration for Conference: **Aug. 17, 2021**
Conference Dates: **Aug. 18-19, 2021**
Workshops & Lab Visit: **Aug. 20, 2021**
Campus Tour: **Aug. 21, 2021**

Contact Us

Website: www.ieee-iccse.org
E-mail: iccse2021@gmail.com
FaceBook Page: <https://www.facebook.com/ICCSE-112071170377748>
Follow us at Twitter: @iccse1
WeChat Official Account: IEEE-ICCSE