



# The 15<sup>th</sup> International Conference on Computer Science and Education (ICCSE 2020)

Delft, Netherlands. August 18-22, 2020.

## Call for Papers

(IEEE Conference #: 49874)

### Quick Information for Submission

**1. Website**

<http://www.ieee-iccse.org>

**2. Conference details in IEEE**

[https://conferences.ieee.org/conferences\\_events/conferences/conferencedetails/49874](https://conferences.ieee.org/conferences_events/conferences/conferencedetails/49874)

**3. Templates for Papers**

<https://www.ieee.org/conferences/publishing/templates.html>

**4. Link for Submission**

<https://easychair.org/conferences/?conf=iccse2020>

**5. PDF-Express after Acceptance (June 1 to August 31, ID: 49874XP)**

<http://www.pdf-express.org/plus/>

**6. Past ICCSEs Proceedings**

<https://ieeexplore.ieee.org/xpl/conhome/1800019/all-proceedings>

### 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 and Toronto 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 2020

The 15<sup>th</sup> International Conference on Computer Science & Education (ICCSE 2020) will be held in Delft, the Netherlands during August 18-22, 2020. ICCSE 2020 is organized by the China National Research Council of Computer Education in Colleges & Universities (CRC-CE), hosted by **Delft University of Technology (TU Delft)**, the Netherlands, and with the technical sponsorship of IEEE Education Society. The proceedings of ICCSE will be published by IEEE, and be included in the IEEE Xplore digital library with ISBN (TBD).

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

### Design & education in the digital epoch

#### 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

##### 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

##### 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

#### **e-Society/ smart-Society**

- Culture protection by new IT/ICT
- Environment protection by new IT/ICT
- privacy, identity and trust in e-society
- e-Health/Smart healthware
- Smart traffic system

- 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

## **Invited Sessions:**

### **Topic: Computer courses and standards**

Computer Science and Technology is not only a major in universities, the related courses are also the common courses of lots of departments, which are the important technical foundation of training students' ability of computational thinking and making students apply computer technology to scientific research and engineering practice in their own majors. In recent years, many countries in the world have begun to cultivate the ability of computational thinking and programming for teenagers.

Topics of the session can be the follows (but are not limited to):

- Courses and standards of CS (Computer Science) *major* in universities
- *IT (Information Technology) courses and standards for teenagers*
- Design and case studies of courses
- CS common courses in universities and computational thinking
- Online courses of or related to CS

#### **Session chair:**

Li ZHENG, Tsinghua University, China  
zhengli@tsinghua.edu.cn

#### **Session co-chair:**

Chao LI, Tsinghua University, China  
li-chao@tsinghua.edu.cn

## **Paper Submission:**

Authors should submit the full version of their manuscripts online through the conference submission system at <http://easychair.org/conferences/?conf=iccse2020>.

**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 EI. The journal will carry out a second-round blind review prior to publication.

## Important Dates

Paper Submission Deadline: ~~April 15, 2020~~

Decision Notification: **May 15, 2020 (for first round)**

Submission of Final Versions and Author Registration: **June 1, 2020 (for first round)**

**Paper Submission Deadline: June 16, 2020 (Extended)**

Registration for Conference: **Aug. 18, 2020**

Conference Dates: **Aug. 19-20, 2020**

Workshops & Lab Visit: **Aug. 21, 2020**

Campus Tour: **Aug. 22, 2020**

## Contact Us

Website: [www.ieee-iccse.org](http://www.ieee-iccse.org)

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