The 19th International Conference on Computer Science and Education (ICCSE 2025)

Osaka & Fukui, Japan. Aug.19-24, 2025

Call for Papers

Brief History

Since its establishment in 2006, the International Conference on Computer Science and Education (ICCSE) has been held in various locations including Xiamen, Wuhan, Kaifeng, Nanning, Hefei, Lishui, Singapore, Melbourne, Sri Lanka, Vancouver, Cambridge, Nagoya, Houston, Delft, Lancaster, and Ningbo, Selangor Darul Ehsan. Throughout its 19-year history, ICCSE has grown into a significant gathering and communication event for computer education research in higher education institutions worldwide.

A multitude of renowned international experts, including IEEE Fellows and Academicians, in the fields of *Computer Science, Educational Technology, Science and Engineering* have actively participated in these events and delivered exceptional keynote speeches. Distinguished scholars, scientists, technologists, engineers, and professionals from leading universities of higher education, research institutes, and enterprises have contributed with their publications and presentations. Through recommendation, numerous high-quality papers have been published in well-regarded journals. ICCSE has successfully established a platform for exchanging ideas and fostering collaboration among industries, universities, and research institutes.

About ICCSE 2025

We are pleased to announce that the 19th International Conference on Computer Science & Education (ICCSE 2025) will take place in Japan from Aug.19-24, 2025. The pre-conference academic exchange activities will be held at the Ibaraki Campus of Ritsumeikan University in Osaka on Aug.19-20. The conference will be held by Fukui University in Fukui City from Aug.21-24. The events are organized by the Computer Education Research Association of Chinese Universities (CERACU) and hosted by Fukui University.

The conference program features a diverse range of technical presentations, including refereed papers, special workshops, invited sessions, poster sessions, panel discussions. The proceedings of ICCSE will be published by a highly reputable publisher.

A special session will be organized at the conference for academic exchange purposes, allowing the presentation of papers that have been published in other journals. These papers will not be considered for republication in ICCSE 2025.

Conference Theme

AI and Digital Literacy: Shaping the Future of Education

General Scope

Computer Science and Data Science
- Artificail Intelligence and Machine Learning
- Data Mining and knowledge Discovery on Multiple Scenarios (Education, Healthcare and Environments etc.)
- Educational Robotics and Automation
- Cybersecurity and Privacy
- Large Language Model-Theory and Application
- Application and Practices on Multiple Scenarios

New Technologies' application in Education and Learning
- Artificial Intelligence (AI) and Machine Learning (ML) in Education and Training
- Artificial Intelligence Generated Contents and Smart learning
- Internet of Things (IoT) and Smart Classrooms
- Immersive Learning Environments Based on Augmented Reality (AR) and Virtual Reality (VR) in Education and Training
- Mobile Application and and Microlearning
- Clould computing/Blockchain and Education

Pedagogical Methods and Innovation
- Digital Game and Intelligent Device Enhance Learning
- Pedagogical Strategies for Smart Education and Digitalization.
- Hybrid and Blended Learning Models
- Personalized Learning and Adaptive Learning Systems
- Online Learning and Massive Open Online Courses
- (MOOCs)
- Social Media and Learning Communities
- Digital Citizenship and Cybersecurity in Education
- Innovation in Digital Learning (new and what's coming in the future)

Competency Evaluation in Education
- Assessment or Evaluation of Learning or Education Results
- Capability Assessment of Digital Transformation in Education
- Digitalization Capability Evaluation Theory and Practice
- Automated Scoring and Feedback Systems
- Personalized Assessment and Learning Analytics
- Language Assessment Based on Natural Language Processing (NLP)
- Behavior and Emotion Assessment
- Real-Time Exam Monitoring and Anti-Cheating Technologies
- Ethics and Privacy Protection in AI-Based Competency Assessment

AI-Driven Digital Transformation in Education
- Challenges and Strategies
- Development of Interdisciplinary Curricula
- Personalized Education and Learning resources
- Development of Intelligent Teaching Platforms or Eco-system
- Intelligent Tutoring Systems
- Personalized Learning and Adaptive Teaching
- Applications of Generative AI in Education
- Mixed Reality (MR) and Immersive Learning
- AI Ethics and Data Privacy

e-Society
- Social Applications of Generative Artificial Intelligence
- Preservation and Inheritance of Digital Cultural Heritage
- Impact of Social Media and Information Dissemination
- Innovative Applications of Digital Technologies
- Ethical Issues in the Social Application of Digital Technologies

Digital Literacy and Digital Leadship-Workshop
- Theoretical Research on Digital Literacy: Concepts and Competency Frameworks etc.
- Digital Literacy Education Activities and Practices (Education, Training and Evaluation)
- Digital Literacy Competency Assessment and Practices
- Digital Leadership Curricula and Assessment Systems
- Digital Literacy and Skills Curriculum Development and Practice
- AI Literacy
- Digital Leadership and Enterprise Digital Transformation

Paper Submission

Authors should submit the full version of their manuscripts online through the Springer manuscript system, via https://easychair.org/conferences/?conf=iccse2025.

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. Templates are available at

https://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines.

Papers previously published in other journals can be received by iccse@outlook.com.

Important Dates

Paper Submission Deadline: **May 15, 2025**

Decision Notification: **June 15, 2025**

Submission of Final Versions and Author Registration: **June 25, 2025**

Program Released: **July 30, 2025**

Pre-conference Academic Exchange Activities in Ritsumeikan University: **August 19-20, 2025**

Registration for Conference: **August 21, 2025**

Conference Dates: **August 22-24, 2025**

Contact Us

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