



WCCE 2022 - IFIP TC3 World Conference on Computers in Education

Towards a Collaborative Society Through Creative Learning

August 2022

Saturday 20th August — Pre-conference event day

(at Higashi-Senda campus of Hiroshima University <https://www.hiroshima-u.ac.jp/en/access#higashisenda>)

Sunday 21st to Wednesday 24th August — Main Conference

(at International Conference Center Hiroshima
[International Conference Center Hiroshima \(ICCH\)](#))

25th August — TC3 annual meeting
(venue TBC, attendance TC3 members)

WCCE 2022 is planned to be held as a hybrid conference with onsite participation in Hiroshima, if the Coronavirus pandemic situation allows, and online participation via the Internet possible in any case. Further details about the conference format will be published in the next months on the conference website.

<https://wcce2022.org>

Call for Papers, Presentations and Other Contributions

Deadline for submissions: 28^h February 2022

We invite you to submit your work to WCCE 2022, which enables you to:

- Take an active role and be involved in discussions to consider concerns and approaches for the future of technology for empowering learning, teaching, training and professional development with digital technologies.
- Share knowledge and ideas about the rapidly emerging practices of Computer Science Education (CSE), and the important role that CSE has in educating creators of the future.
- Discuss the importance of ensuring digital equity and e-inclusion and how we can achieve this for communities widely.



- Demonstrate and illustrate examples of global and mobile opportunities, used for educational purposes in developed and developing countries.
- Access latest research and business solutions that have been transformed into educational best practice, where outcomes are recognised and identified.
- Offer examples of how inclusive and adaptive technologies have impacted and can impact both society and knowledge.
- Network with world-leading teachers, educators, professionals and technologists as well as with strategy and policy experts.
- Be involved in sessions that allow experiences to be shared with others, including leading technology developers, through innovative workshops on learning technologies.
- Present your work, research, developments, policy initiatives, and ideas, so that we can all be inspired by leading examples from our wealth of international contributors and speakers.

Themes of the conference

Submissions should cover one or more of the key themes within the focus of the conference - **“Towards a collaborative society through creative learning”**. As the world is increasingly interconnected and complex, the need for more critical and creative thinkers as well as for people able to fruitfully collaborate with others is increasing. Creative strategies must be implemented in education so that citizens, in general, and students at all levels, in particular, are better prepared to create new and meaningful forms of ideas, take risks, be flexible and cooperative. The focus of WCCE 2022 “Towards a collaborative society through creative learning” provides an overarching framework through which a range of more specific conference themes can be viewed. These are proposed with examples of specific topics that would fall within these themes below.

WCCE 2022 provides a forum for new research results, practical experiences, developments, ideas, and national perspectives, related to the conference focus and the themes listed below for all levels of education (preschool, primary, secondary, higher, vocational, and lifelong learning) including the professional development of educators (teachers, trainers and academic and support staff at other educational institutions) and related questions on educational management. The themes are grouped by broad categories with examples of possible – but not exhaustive – sub-themes.

- **Digital education in schools, universities, and other educational institutions**

Examples of topics that can be presented under this theme could be:

Supporting the development of creativity in innovative institutions; developing effective and creative teaching practices and pedagogies integrating technologies; assessment, evaluation, certification of digital education; supporting educators’ empowerment, training and professional development; implementing e-inclusion in



educational institutions; positively supporting sustainable development and learning; models for digital education

- **National policies and plans for digital competence**

Examples of topics that can be presented under this theme could be:

Analysis of national cases; comparisons of different plans and policies in different countries; curricula development

- **Learning with digital technologies**

Examples of topics that can be presented under this theme could be:

Innovative learning environments integrating technologies; recent phenomena in education (e.g. MOOCs, virtual and distance laboratories, haptic technologies, etc.); technologies supporting new forms of collaboration and practice as well as new roles for students and teachers; developing uses of technologies in informal learning situations and connecting them with formal contexts

- **Learning about digital technologies and computing**

Examples of topics that can be presented under this theme could be:

Exploring computational thinking; computing and computer science education; programming languages for education; digital media for learning about digital technologies and computing; data science education and data scientist certification; physical computing; socio-cultural aspects of digitisation; media structures in digital media

Submissions

WCCE 2022 provides a forum for **policy makers, practitioners** and **researchers**. WCCE 2022 welcomes the following types of submissions, that are relevant to the conference focus and the conference themes. The indicated maximum number of pages assumes formatting according to the Springer formatting style (<https://bit.ly/3bdIGIE>) and the page lengths include all sections from the submission title to the references, acknowledgments, etc.

I. Research-oriented submission formats

Research-oriented submissions (full and short papers) will be reviewed for presentation at the conference and inclusion in the post-conference book (see details below).

- **Full papers** (up to 12 pages) are standard academic research papers that describe:

- high-quality, unpublished, original *research work and results* (which can be either *empirical* or *theoretical*),
- *systematic literature reviews* present novel arguments, syntheses, theoretical analyses, or the proposition of an original model, framework or theory,
- *national perspectives, policy directions, or new ideas for practice,*



- unpublished work on *original projects* with an emphasis on *practical experiences*, e.g. evaluating a teaching concept or a curricular initiative. Reports in this category need to reflect on the findings and their relevance to the field.
- **Short papers** (up to 6 pages) are shorter research papers in academic format, which can focus on the same topics as full papers and which present **work in progress**.

II. Presentation-oriented submission formats (*abstracts*, up to 2 pages)

Presentation-oriented submissions (*abstracts*) will be evaluated for presentation at the conference only. An exception are papers arising from symposia (see below), which can be reviewed after the conference for publication in the post-conference book.

- **Demonstration/poster abstracts:** present emerging ideas for future research, teaching practice, or use of tools.
- **Workshop abstracts:** in workshops, innovative projects, teaching concepts, technologies or open problems are demonstrated and explored. Workshops comprise a short presentation followed by an interactive session with the audience. Proposals for workshops consist of an outline of the subject to be discussed, along with planned activities, any specific infrastructure needed, time frame, and maximum number of participants.
- **Panel session abstracts:** the intended chair of a panel should submit an abstract with the indication of a panel of up to three identified speakers who will briefly present their views on a pertinent topic. The audience will be invited to participate in a round-table discussion.
- **National sessions abstracts:** a national overview from a national representative or representative group on a policy, practice or research topic. A special session on Japan (in Japanese with translation) will be presented in the final programme of the conference.
- **Symposia** (up to 2 pages for the symposium description plus 1 page for each presentation): a symposium is a collection of related presentations on a central theme of the conference. The organiser(s) of a symposium should submit an outline of the theme, the list of participants, and include a one-page abstract of each presentation. Papers arising from the accepted symposium presentations can be reviewed after the conference for inclusion in the post-conference book.

For up-to-date **details about submissions** and for **submitting contributions**, please go to wcce2022.org.

Publication

Post-conference publication will include both a **post-conference book** (planned to be published



by Springer in the AICT series) and a **special issue of a journal of the Japanese Computer Society**.

Full papers, **short papers**, and papers arising from an academic presentation in accepted **symposia** will be considered for publication in the **post-conference book**, according to the following criteria:

- If you submit a *full paper*, the reviewers will assess initially whether the submission is worthy of inclusion within the conference. If the paper is accepted for presentation, and only requires minor revision, then it will be judged worthy of being accepted for publication in the post-conference book.
- If you submit a *full paper* that is accepted for presentation, but requires major revision, a further review process is undertaken following the conference in order to assess whether it can be accepted for publication in the post-conference book.
- If you submit a *short paper*, the reviewers will assess initially whether the submission is worthy of inclusion within the conference, but acceptance for publication in the post-conference book will be decided following the conference. Acceptance of a short paper for publication will depend on the number of short papers that can be accepted for the post-conference book.
- If you submit a *full* or *short paper* following an academic presentation in one of the accepted *symposia*, the reviewers will assess after the conference whether the submission is worthy of inclusion in the post-conference book.

If you submit an **abstract**, the reviewers will assess whether the submission is worthy of **presentation within the conference**. No assessment will be given to indicate whether the submission should be judged worthy of inclusion in any post-conference publication (with the exception of papers arising from symposia, as noted above).

Abstracts of **all accepted submissions** will be published online as part of the conference programme.

The Local Organising Committee offers an alternative publication opportunity (a **special issue of the Japanese Computer Society** journal that accepts papers in English) for submissions (in the above-mentioned formats) that will not be included in the post-conference book. Details about this option will be sent to authors of papers which were not accepted for the post-conference book, after the post-conference review process is completed.

Key dates

Submission deadline:	28 th February 2022
Notification of review results:	23 rd April 2022
Conference date:	21 st - 24 th August 2022
Submission of revised papers:	3 rd October 2022



Financial Support for Doctoral Students from Developing Countries

IFIP TC3 is keen to involve doctoral student participants from countries worldwide, especially from developing countries. Those coming from a developing country who would like to be involved by presenting a paper, but who do not have funds to cover travel costs, should make early contact with the IFIP TC3 chair Don Passey (d.passey@lancaster.ac.uk) by 28th February 2022 to explore possible support.

Please see further details and register on the website: wcce2022.org