



Special Track "**Computational Thinking and Computing Education**"

Call for Papers

Computational thinking and computing education have received a lot of attention recently, as governments seek to teach computing to all and support young students in creative and problem-solving tasks. Computing is considered as the new literacy, and teaching computing in a world where computers are ubiquitous demands new techniques and contexts for learning.

A lot of innovation and research over the last few years has changed the kind of pedagogies, guidelines and resources used in computing education. Intuitive and student-friendly programming environments like Alice, Scratch, BlueJay, Greenfoot, Kodu to mention few, as well as new standards and guidelines from CSTA/ACM and ISTE have been widely applied. There has also been a lot of debate about related issues such as which programming languages or pedagogies are best for beginners, and how to get more females involved in Computer Science (CS).

This special session intends to attract contributions related to computational thinking and computing education. Research areas of particular interest include, but are not limited to:

- CS teachers' professional development
- environments fostering computational thinking
- computing curricula in different contexts and countries
- learning technologies to support CS education
- learning analytics in CS
- informal learning experiences in CS
- case studies/reports ranging from K-12, to tertiary, to lifelong CS education
- experience reports/evaluation studies
- project based learning/capstone projects in CS education
- gender equity in CS education
- experience with innovative pedagogies in learning or/and teaching CS

Contributions

Proposals for participation in the “Computational Thinking and Computing Education” Special Session can be submitted in the following formats:

- Full papers: 5-8 pages in IEEE A4 format
- Short papers: 4 pages in IEEE A4 format
- Works in Progress/Demos: 2-3 pages in IEEE A4 format

All submissions will be peer-reviewed by at least two reviewers. All accepted papers will be included in the conference proceedings submitted to IEEE Xplore®, provided at least one author pays the registration fee before February 6th, 2017.

For further questions, please contact Michail Giannakos, Peter Hubwieser and Arnold Pears, (Subject: EDUCON 2017 Special Session Submission).

Important Dates

17 Dec 2016 Paper submission,

21 Dec 2016 Notification of Acceptance

06 Feb 2017 Author registration and payment, Camera-ready submission

26 Apr 2017 Conference Opening

Submission

Please visit <http://www.educon-conference.org/educon2017/index.php> and submit your paper in the respective special session titled “Computational Thinking and Computing Education”.

Chairs

Michail Giannakos, Norwegian University of Science and Technology (NTNU), Norway

Peter Hubwieser, Technische Universität München, Germany

Arnold Pears, Uppsala University, Sweden

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