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Erik Barendsen · Christos Chytas (Eds.)

# Informatics in Schools

## Rethinking Computing Education

14th International Conference on Informatics  
in Schools: Situation, Evolution,  
and Perspectives, ISSEP 2021  
Virtual Event, November 3–5, 2021  
Proceedings

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## Preface

This volume contains selected papers presented at the 14th International Conference on Informatics in Schools: Situation, Evolution, and Perspectives (ISSEP 2021). The conference was hosted by Radboud University (Nijmegen, the Netherlands). It took place during November 3–5, 2021 and was held online due to the COVID-19 pandemic.

ISSEP is a forum for researchers and practitioners in the area of informatics education in both primary and secondary schools. The conference provides an opportunity for educators and researchers to reflect upon aspects of teaching and learning in informatics in a broad sense, including the various ways of implementing informatics education in schools.

The conference topics include informatics curricula, programs, and courses, pedagogies for teaching and learning informatics, teacher education in informatics, digital literacy and computational thinking, connecting informatics education in formal, non-formal and informal learning environments, informatics and digital literacy in contexts, (e.g., STEAM education), digital citizenship, engagement and empowerment strategies for broadening participation and diversity in computing education.

The ISSEP conference started in 2005 in Klagenfurt. It was followed by meetings in Vilnius (2006), Torun (2008), Zürich (2010), Bratislava (2011), Oldenburg (2013), Istanbul (2014), Ljubljana (2015), Münster (2016), Helsinki (2017), Saint Petersburg (2018), Larnaca (2019), Tallin (2020), and this year's ISSEP held virtually in Nijmegen (2021).

This year's ISSEP conference received 42 submissions in various categories. Only the full paper categories (country reports and research papers) were considered for publication in these LNCS proceedings. At least three reviewers evaluated the quality, originality, and relevance to the conference of the 29 full paper submissions. The review was double-blind. The committee selected 12 papers for publication in these proceedings, leading to an acceptance rate of 41%.

We would like to express our gratitude to all authors, reviewers, and local organizers for their valuable contribution to this year's ISSEP conference.

September 2021

Erik Barendsen  
Christos Chytas

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