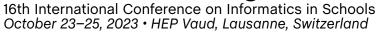
ISSEP 2023 • Program





https://issep2023.hepl.ch

Venue: avenue des Bains 21, CH-1007 Lausanne

Wifi: HEP-VD Public event-issep-vcmk g3v4eE

Proceedings: Springer LNCS ⇒ bit.ly/issep2023-springer

Local ⇒ bit.ly/issep2023-local

Monday, October 23, 2023 • Teachers' Day; edu-i-day

08:30 – 09:00 B21, Hall Arrival & registration for main conference 09:00 – 09:15 B21-308 Opening Address 09:15 – 10:15 B21-308 Keynote 1: Lauren Margulieux Computing Across the Curriculum: CS Knowledge and Skills that Everyone Values 10:15 – 10:45 B21, Hall Break 10:45 – 12:05 B21, Hall Break Regular talks: Teachers. Session chair: Gabriel Parriaux Measuring Didactical Competencies for Informatics Education among Prospective Primary School Teachers			
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P	15:30 – 15:35		Mini transition break
16:35 – 18:00 B21, Hall Welcome apéro	15:35 – 16:35	B21	Workshops in parallel, session 3*
	16:35 – 18:00	B21, Hall	Welcome apéro
16:40 – 17:10 B21-341 SVIA/SSIE/SSII General Assembly (for members of the association)	16:40 – 17:10	B21-341	SVIA/SSIE/SSII General Assembly (for members of the association)

[★] Detailed workshop description and registration on separate sheet

Tuesday, October 24, 2023 (morning)

08:45 - 09:00	B21, Hall	Registration for late arrivals
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09:00 – 10:00	B21-308	Keynote 2: Shuchi Grover Teaching Al in K-12: Examples, Issues & Guidance from K-12 CS Education Research
10:00 – 10:40	B21-308	Regular talks: AI (part 1) Session chair: Valentina Dagienė 1. Education and Awareness for Artificial Intelligence Martin Kandlhofer, Petra Weixelbraun, Manuel Menzinger, Gerald Steinbauer-Wagner, and Ágoston Kemenesi 2. What is AI-PACK? Outline of AI competencies for teaching with DPACK Uwe Lorenz and Ralf Romeike
10:40 - 11:10	B21, Hall	Break
11:10 – 12:30	B21-308	Regular talks, track 1: Bebras and Problem Solving Session chair: Greg Lee 1. All Green: How Different Age Groups Solved the Same Bebras Task Carlo Bellettini, Violetta Lonati, Mattia Monga, and Anna Morpurgo 2. Effects of the COVID-19 pandemic on the Bebras Computational Thinking Challenge: Comparing numbers, examining reasons, and investigating recommendations Martin Kandlhofer, Wilfried Baumann, Gerald Futschek, Liam Baumann, and Steven Ludwig 3. Insights and Conclusions from Analyzing the Hungarian Bebras Initiative in 2021-2022 Zsuzsa Pluhár and Bence Gaál 4. The Function of Note-Taking in Problem Solving in the Computer Science Escape Game Room-X Alexander Hacke and Nadine Dittert
	B21-313	 Regular talks, track 2: Robotics and Unplugged Modalities Session chair: Gabrielė Stupurienė Identifying Computational Thinking Behaviors in the Robotics Programming Activity Megumi Iwata, Kati Mäkitalo, and Jari Laru Combining Models to Orchestrate an Instructional Scenario Fostering Computational Thinking in Educational Robotics Frankie Dubois, Stéphanie Burton, Patrick Wang, and Morgane Chevalier Effects of the use of robots on algorithm, decentration, and locating in the plane skills Emma Schenkenberg van Mierop, Acsa-Loriane Schmidt, and Morgane Chevalier Teachers' Knowledge in Informatics—Exploring Educational Robotics Resources Through the Lens of Textual Data Analysis Gabriel Parriaux, Christophe Reffay, Béatrice Drot-Delange, and Mehdi Khaneboubi
10.00 11.00	Onfall	
12:30 – 14:00	Cafeteria	Lunch

14:00 – 14:45	B21, Hall	Poster session*
14:45 – 15:45	B21-308	 Regular talks: Gender Barriers Session chair: Violetta Lonati Easy Coding in Biology: Combining Block-Based Programming Tasks with Biological Education to Encourage Computational Thinking in Girls Eva Schmidthaler, Corinna Hörmann, David Hornsby, Anneliese Fraser, Martin Cápay, and Barbara Sabitzer Breaking Gender Barriers in Computer Science: Exploring the Impact of Digital Fabrication Workshops in Smart Environments Nadine Dittert, Mareike Daeglau, Pancratz Nils, and Ira Diethelm Supporting gender equality in computer science through pre-introductory programming courses András Margitay-Becht and Udayan Das
15:45 – 16:00	B21, Hall	Break
16:00 – 16:40	B21-308	Regular talks, track 1: AI (part 2) Session chair: Giovanni Serafini 1. Implementing a Portable Learning Lab on Artificial Intelligence: It's AI in a Box! Annabel Lindner, Marc Berges, Mathias Rösch, and Florian Franke 2. Artificial Intelligence in Primary and Secondary Education: a Review of Educational Activities Development Sébastien Combéfis
	B21-313	Regular talks, track 2: Chatbots and Quantum Computing. Session chair: Gerald Futschek 1. Investigating the Role of ChatGPT in Supporting Text-Based Programming Education for Students and Teachers Markus Wieser, Klaus Schöffmann, Daniela Stefanics, Andreas Bollin, and Stefan Pasterk 2. Teaching Quantum Informatics at School: Computer Science Principles and Standards Giulia Paparo, Regina Finsterhoelzl, Bettina Waldvogel, and Mareen Grillenberger
16:40 – 16:45		Mini transition break
16:45 – 17:45	B21-308	(Yet Another) Panel on Al in K-12 Computing Education Moderated by Tilman Michaeli Participants: Shuchi Grover, Valentina Dagienė, Martin Kandlhofer, and Marc Berges
17:45 – 18:30		Move to conference dinner
18:30 –		Conference dinner: Les Jardins de PAM Rue des Côtes-de-Montbenon 20, CH–1003 Lausanne

[★] See list of poster titles and authors on separate sheet

Wednesday, October 25, 2023

09:00 – 10:00	B21-308	Keynote 3: <i>Helmut Schauer</i> Informatics in Schools and Everyday Life
10:00 - 10:05		Mini transition break
10:05 – 10:45	B21-308	Regular talks, track 1: CS with Other Disciplines Session chair: Jacqueline Staub 1. Bridging the Gap: Infusing Natural Science Classes with Computer Science Concepts and Skills Elena Yanakieva, Annette Bieniusa, Brian Moser, Thomas Becka, Dominik Jerger, and Christoph Thyssen 2. Computational Thinking from Preschool to University: The Versatility of UML Modeling in Education Nina Angela Lobnig and Corinna Mößlacher
	B21-313	Regular talks, track 2: CS Unplugged Session chair: Sébastien Combéfis 1. Reshaping Unplugged Computer Science Workshops for Primary School Education Martina Landman, Sophie Rain, Laura Kovacs, and Gerald Futschek 2. Unplugged revisited. Computer Science Education with a computer in the background Maciej M. Sysło
10:45 - 11:15	B21, Hall	Break
11:15 – 11:55	B21-308	Regular talks, track 1: Programming 1 Session chair: Zsuzsa Pluhár 1. Computational Thinking Readiness of High School Students in Taiwan Greg Lee, Jia-Yi Chen, and Yu-Wen Yang 2. Investigating Code Smells in K-12 Students' Programming Projects: Impact on Comprehensibility and Modifiability Verena Gutmann, Elena Starke, and Tilman Michaeli
	B21-313	Regular talks, track 2: Programming 2 Session chair: Andreas Bollin 1. MazeMastery—A Python Framework for Teaching Maze-Traversal in High School Jacqueline Staub, Raphaël Baur, and Jens Hartmann 2. An Exploratory Investigation on High-School Students' Understanding of Threads Emanuele Scapin, Nicola Dalla Pozza, and Claudio Mirolo
11:55 – 12:00		Mini transition break
12:00 – 12:20	B21-308	Partner talk: Claire Conneely and Verónica Gebhardt, Google Breaking Barriers: Six barriers holding girls back from choosing Computer Science across Europe
12:20 – 12:40	B21-308	Awards, annoucement of next events, official closing
12:40 - 14:30	Cafeteria	Lunch
14:30 – 18:30		Excursion: Walk and Wine in Lavaux (alcohol-free option included)