

Conference Program

Monday, 22/09/2014

09:00 – 09:30	Registration	
09:30 – 10:45	Opening – Welcome message	
10:45 – 11:00	Coffee Break	
11:00 – 12:30	Keynote #1 – Michael Kölling: From Lego to Java – Interfaces for discovery and motivation (invited talk)	
12:30 – 13:30	Lunch Break	
	Session #1 – Computer Science Education	
13:30 – 13:45	Andreas Grillenberger, Ralf Romeike: Big Data – Challenges for Computer Science Education (#2)	Session chair: <i>Andrej Brodnik</i>
13:45 – 14:00	Maciej Borowiecki, Katarzyna Ołędzka: Coding School for 10-12 aged students (#3)	
14:00 – 14:15	Simone Opel, Torsten Brinda: “Computer Science in Context” and “Learning Fields” in Vocational Computer Science Education -Two Unlike Siblings? (#12)	

14:15 – 14:30	Nubia Alejandra Fecht, Ira Diethelm: Analysis of Computer Science Education in Venezuela using the Darmstadt Model(#10)	
14:30 – 15:00	SESSION #1 – WRAP-UP	
15:00 – 15:30	Coffee Break	
	SESSION #2 – COMPUTER SCIENCE EDUCATION	
15:30 – 15:45	Jiří Vaníček: Bebras Informatics Contest: Criteria for Good Tasks Revised (#1)	Session chair: Maciej M. Sysło
15:45 – 16:00	Mareen Przybylla, Ralf Romeike: Overcoming Issues with Students' Perceptions of Informatics in Everyday Life and Education with Physical Computing (#6)	
16:00 – 16:15	Nataša Kristan, Dean Gostiša, Gašper Fele-Žorž, Andrej Brodnik: A high- availability Bebras Competition System (#39)	
16:15 – 16:30	Ján Gunčaga, Mária Karasová: Informatics Education and Interdisciplinary Relations with other Subjects in Primary Education for Developing of Pupils' Abilities (#23)	
16:30 – 17:00	SESSION #2 – WRAP-UP	
18:00 – 20:00	Welcome Reception	

Tuesday, 23/09/2014

09:00 – 09:15	Registration	
	SESSION #3 – COMPETENCE MEASUREMENT FOR INFORMATICS	
09:15 – 09:30	Markus Brunner, Monika Di Angelo: Competence Orientation in Vocational Schools – the Case of Industrial Information Technology in Austria (#7)	
09:30 – 09:45	Thomas Schiller, Peter Micheuz: Didactics of Information Security as a Key Competence (#8)	
09:45 – 10:00	Jonas Neugebauer, Peter Hubwieser, Johannes Magenheim, Laura Ohrndorf, Niclas Schaper, Sigrid Schubert: Measuring Student Competences in German Upper Secondary Computer Science Education (#16)	Session chair: Jiří Vaniček
10:00 – 10:15	Valentina Dagiene, Linda Mannila, Timo Poranen, Lennart Rolandsson, Gabriele Stupuriene: Reasoning on Children’s Cognitive Skills in an Informatics Contest: Findings and Discoveries from Finland, Lithuania, and Sweden (#36)	
10:15 – 10:45	SESSION #3 – WRAP-UP	
10:45 – 11:00	Coffee Break	
11:00 – 12:30	Keynote #2 – Barbara Demo: The many facets of Scratch (invited talk)	
12:30 – 13:30	Lunch Break	

	SESSION #4 – CURRICULUM ISSUES	
13:30 – 13:45	Bernhard Standl, Wilfried Grossmann: Towards Combining Conceptual Lesson Patterns with Austrian K12 Computer Science Standard Curriculum in the Context of Pedagogical Content Knowledge (#15)	Session chair: Valentina Dagiene
13:45 – 14:00	Carlo Bellettini, Violetta Lonati, Dario Malchiodi, Mattia Monga, Anna Morpurgo, Mauro Torelli, Luisa Zecca: Extracurricular activities for improving the perception of Informatics in Secondary schools (#17)	
14:00 – 14:15	Sergei Pozdniakov, Svetlana Gaisina: New trend in Russian informatics curricula: integration of math and informatics (#28)	
14:15 – 14:30	Yasemin Gülbahar, Filiz Kalelioğlu, Dilek Doğan, Sümeyra Akçay: Curriculum Integration Ideas for Improving the Computational Thinking Skills of Learners through Programming via Scratch (#33)	
14:30 – 15:00	SESSION #4 – WRAP - UP	
15:00 – 15:30	Coffee Break	
15:30 – 16:00	Poster Session	
16:15 – 18:45	City Tour	
19:00 – 21:30	Conference Dinner	

Wednesday, 24/09/2014

	SESSION #5 – EMERGING TECHNOLOGIES AND TOOLS FOR INFORMATICS	
09:15 – 09:30	Janka Majherova, Hedviga Palasthy, Emilia Janigova: Pupils in Virtual World and Education (#22)	Session chair: Ira Diethelm
09:30 – 09:45	Mahdi Miled, Christophe Reffay, Mona Laroussi: An early evaluation of the HiPPY tool usage: the France-IOI case study (#26)	
09:45 – 10:00	Michael Weigend: Understanding Spreadsheet Calculation Through Metaphors (#27)	
10:00 – 10:15	Maciej M. Sysło, Anna Beata Kwiatkowska: Introducing Students to Recursion: a Multi-facet and Multi-tool Approach (#37)	
10:15 – 10:45	SESSION #5 – WRAP-UP	
10:45 – 11:00	Coffee Break	
11:00 – 12:30	Keynote #3 – Walter Gander: Informatics and General Education (invited talk)	
12:30 – 13:30	Lunch Break	
	SESSION #6 – TEACHER EDUCATION IN INFORMATICS	
13:30 – 13:45	Erik Barendsen, Valentina Dagienė, Mara Saeli, Carsten Schulte: Eliciting Computing Science Teachers' PCK using the Content Representation Format: Experiences and Future Directions (#38)	Session chair: Soner Yıldırım
13:45 – 14:00	Ana-Maria Mesaros, Ira Diethelm: Teacher Profiles for Planning Informatics Lessons (#30)	

14:00 – 14:15	Claudio Mirolo: A Present-Day “Glass Bead Game”: A Framework for the Education of Prospective Informatics Teachers inspired by a Reflection on the Nature of the Discipline (#25)	
14:15 – 14:30	SESSION #6 – WRAP-UP	
14:30 – 15:00	Coffee Break	
15:00 – 16:30	Closing Panel – Walter Gander, Barbara Demo, Soner Yıldırım, Valentina Dagiene, Peter Micheuz, Andrej Brodnik, Ralf Romeike: “What Do We Need to Teach?”	
17:00 – 19:00	International Comittee Meeting	

Thursday, 25/09/2014

	WORKSHOP #1	
09:30 – 10:30	Peter Micheuz – Educational Standards in Informatics/ICT at Lower Secondary Level	
10:30 – 11:00	Coffee Break	
11:00 – 12:00	Peter Micheuz – Educational Standards in Informatics/ICT at Lower Secondary Level	
	WORKSHOP #2	
09:30 – 10:30	Michael Weigend – Python	
10:30 – 11:00	Coffee Break	
11:00 – 12:00	Michael Weigend – Python	
	WORKSHOP #3	
09:30 – 10:30	Seiichi Tani, Takeharu Ishizuka, Tomohiro Nishida – Computer Science Unplugged: Teaching CS Concepts Using Activities	
10:30 – 11:00	Coffee Break	
11:00 – 12:00	Seiichi Tani, Takeharu Ishizuka, Tomohiro Nishida – Computer Science Unplugged: Teaching CS Concepts Using Activities	
12:00 – 13:30	Lunch Break	
	WORKSHOP #4	
13:30 – 14:30	Natasa Grgurina – Erik Barendsen- The State of Affairs in the Dutch Informatics Education	

14:30 – 15:00	Coffee Break	
15:00 – 16:00	Natasa Grgurina – Erik Barendsen- The State of Affairs in the Dutch Informatics Education	
	WORKSHOP #5	
13:30 – 14:30	Orçun Madran – Robotic Programming for Teaching Programming Languages	
14:30 – 15:00	Coffee Break	
15:00 – 16:00	Orçun Madran – Robotic Programming for Teaching Programming Languages	