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| **July 1, Wednesday** | | | | | |
| **11.00** | **Registration (Building III Foyer)** | | | | |
|  | To enter the Parliament Buildings please have your passport or ID card with you. | | | | |
| **12.00** | **Guided tour in the Parliament (Seimas)** | | | | |
| **13.00** | **Lunch** | | | | |
| **14.00** | **Opening Session** | | | | |
| Chair: Valentina Dagienė | | | | |
| **Room**: Konstitucijos salė | | | | |
| *Raimundas Paliukas.* Chair of the Committee on Education, Science and Culture, The Seimas of Republic of Lithuania | | | | |
| *Svetlana Kauzonienė.* Vice Minister of Education and Science of Republic of Lithuania | | | | |
| *Gintautas Dzemyda*. Director of Institute of Mathematics and Informatics Vilnius University | | | | |
| **14.30** | **Keynote** | | | | |
| Chair: Valentina Dagienė | | | | |
| **Room**: Konstitucijos salė | | | | |
| *Don Passey* | | | | |
| Computer Science or Information And Communication Technologies: The Curriculum Needs Both | | | | |
| **15.30** | **Coffee Break/Poster Exhibition** | | | | |
| **Place**: Seimas Restaurant/Building III Foyer | | | | |
| **15.35** | (**P**\*) *Irena Patašienė, Martynas Patašius and Gražvidas Zaukas* | | | | |
| [Facing the upcoming challenges in vocational training with mobile learning](https://easychair.org/conferences/review_for_paper.cgi?paper=2246452;a=8167614) | | | | |
| **15.45** | (**P**\*) *Adrian Wilke, Marina Kowalewski, Johannes Magenheim and Melanie Margaritis.* | | | | |
| [Facing the upcoming challenges in vocational training with mobile learning](https://easychair.org/conferences/review_for_paper.cgi?paper=2246452;a=8167614) | | | | |
| **16.00** | **Paper session W1: Computational Thinking** | | **Paper session W2: Learning analytics in programming** | | **Doctoral Consortium** |
| Chair: Eric Sanchez | | Chair: Sindre Røsvik | | Chair: Don Passey |
| **Room**: Konstitucijos salė | | **Room**: Baltijos Asamblėjos salė | | **Room**: Vitražo galerija (*Stained Glass Gallery*),  I rūmai., I aukštas |
| **16.00** | [*Mark Dorling*](http://www.markdorling.net/)*, Cynthia Selby and John Woollard*  Evidence of Assessing Computational Thinking | | *Daniel Toll, Tobias Olsson, Anna Wingkvist and Morgan Ericsson*  Fine-Grained Recording of Student Programming Sessions to Improve Teaching and Time Estimations | | *Silvio Giaffredo* |
| Informatics in Italian Secondary Schools: competences re-engineered |
| *Gabrielė Stupurienė* |
| Computational modelling of the fundamental informatics concepts through interactive tasks |
| **16.30** | *Tauno Palts and Margus Pedaste*  Model of Learning Computational Thinking | | *Aivar Annamaa, Annika Hansalu and Eno Tonisson*  Automatic analysis of students' solving process in programming exercises | | *Tauno Palts*  Model of Learning Computational Thinking |
| *Airina Savickaitė* |
| Intelligent personalised learning |
| **17.00** | *Miroslava Cernochova, Mark Dorling and Lawrence Williams*  Developing Computational Thinking Skills through the Literacy from Scratch project, an International Collaboration | | *Ekaterina Yagunova,* [*Sergei Pozdniakov*](http://www.eltech.ru/)*, Nina Ryzhova, Evgenia Razumovskaia and Nikolay Korovkin*  Analyses of difficulty and complexity of items in international on-line competition “Beaver” | | *Maiko Shimabuku*  An AR Tool for Understanding Quicksort Algorithm |
| *Volkan Kukul* |
| Delivering and Assessing Computing Thinking Skills through Integration to National Curricula |
| **17.30** | **Panel** | | **Paper session W3: Approaches to learning programming  (short papers)** | | **Doctoral Consortium (continued)** |
| Chair: Niki Davis | | Chair: Peter Micheuz | | Chair: Don Passey |
| **Room**: Konstitucijos salė | | **Room**: Baltijos Asamblėjos salė | | **Room**: Vitražo galerija, I rūmai., I aukštas |
| **17.30** | *Niki Davis, Mary Webb and David Gibson*  Promoting a new culture of learning with EDUsummIT and UNESCO | | (**SP**\*\*) *Bruce Scharlau, Janet Carter and Nigel Beacham*  Songs are the tapping of keys… Coding events for Kids | | *Jo-Yu Lee*  A Case Study of Undergraduate Students’ Perception of Passion and Creativity in Science and Technology in Taiwan |
| *Maria Ventura* |
| WhatsApp in lower secondary school. Can technology support inclusion? |
| **17.50** | (**SP**\*\*) *Motoki Hirao, Yoshiaki Matsuzawa and Sanshiro Sakai* | | [*Peter Doe*](http://www.utas.edu.au/)  Investigating students’ engagement in an engineering degree through technology enhanced learning |
| Compile Error Collection Viewer: Visualization of Learning Curve for Compile Error Correction | |
| [*Justina Naujokaitien*](http://www.vdu.lt/en/)*ė*  Collaborative learning using ICT. Creation, implementation and evaluation of pedagogical scenario |
| **18.10-18.30** | (**SP**\*\*) *Takashi Ohata, Yoshiaki Matsuzawa and Sanshiro Sakai*  MeRV: A Scaffold to Promote Creating 2D Map of Method Call Structure in Block-based Programming Language | | *Seeta Jaikaran-Doe* |
| Parallel Analysis- Accuracy in factor retention |
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| **July 2, Thursday** | | | | | |
| **9.00** | **Keynote** | | | | |
| Chair: Anita Juškevičienė | | | | |
| **Room**: Konstitucijos salė | | | | |
| *Eugenijus Kurilovas* | | | | |
| Application of Intelligent Technologies in Computer Engineering Education | | | | |
| **10.00** | **Paper Session T1: Curriculum challenges** | | **Paper Session T2: Tangible programming and physical computing** | | **Paper Session T3: Learner perspectives** |
|  | Chair: Johannes Magenheim | | Chair: Monique Grandbastien | | Chair: Vladimiras Dolgopolovas |
| **Room**: Konstitucijos salė | | **Room**: Baltijos Asamblėjos salė | | **Room**: Konservatorių frakcijos salė, III rūmai, 218b salė |
| **10.00** | *Tamar Benaya, Valentina Dagienė and Ela Zur* | | *Michael Weigend*  Creating Digital Devices in Science Classes | | *Yaacov Katz*  Affective and Cognitive Correlates of Cell-phone Based SMS Delivery of Learning: Learner Autonomy, Learner Motivation, Learner Satisfaction and Academic Achievement |
| CS High School Curriculum – A Tale of Two Countries | |
| **10.30** | *Kathrin Müller*  What do we expect from graduates in CS? First results of a survey at university and company as part of a methodology for developing a competence model | | *Kristina Bespalova, Vytautas Štuikys and Renata Burbaitė* | | [*Bent Andresen*](http://www.dpu.dk/om/bba)  1:1 classroom – for what purpose? |
| CS-Oriented Robot-Based GLOs Adaptation through the Content Specialization and Generation | |
| **11.00** | **Coffee Break/Poster Exhibition** | | | | |
| **Place**: Seimas Restaurant/Building III Foyer | | | | |
| **11.05** | (**P**\*) *R. Robert Gajewski* | | | | |
| Flipped classroom: Can it motivate digital natives to learn? | | | | |
| **11.15** | (**P**\*) *Silvio Giaffredo and Luisa Mich* | | | | |
| Bring Computer Science Competences into Italian Secondary Schools | | | | |
| **11.30** | **Panel** | | **Paper Session T4: Teacher perspectives for ICT and computing** | | **Paper Session T5: Assessing computing capabilities** |
| **11.30** | Chair: Mary Webb | | Chair: Tani Seiichi | | Chair: Christine Bescherer |
| **Room**: Konstitucijos salė | | **Room**: Baltijos Asamblėjos salė | | **Room**: Konservatorių frakcijos salė, III rūmai, 218b salė |
| **11.30** | *Mary Webb, Niki Davis, Yaacov Katz, Maciej Sysło and Nicholas Reynolds.*  Towards deeper understanding of the roles of CS/ Informatics in the curriculum | | [*Sue Sentance*](http://www.kcl.ac.uk/sspp/departments/education/people/academic/Sentance,-Dr-Sue.aspx) *and Andrew Csizmadia*  Teachers’ perspectives on successful strategies for teaching Computing in school | | *Vladimiras Dolgopolovas, Tatjana Jevsikova, Loreta Savulionienė and Valentina Dagienė*  On Evaluation of Computational Thinking of Software Engineering Novice Students |
| **12.00** | *Kerstin Drossel, Birgit Eickelmann and Julia Gerick.* | | *Hans Frederik*  Professional field involvement in ICT curricula at the Dutch UaS |
| Computer use in class: the significance of educational framework conditions, attitudes and background characteristics of secondary school teachers on a level of international comparison | |
| **12.30** |  | | *Seeta Jaikaran-Doe*  LEM-TL: Analytical educational framework for the eCAL program | | (**SP\*\***) *Gabrielė Stupurienė and Eglė Jasutė* |
| Finding Threshold Concepts in Computer Science Contest |
| **13.00** | **Lunch Break/Poster Exhibition** | | | | |
| **Place**: Seimas Restaurant/Building III Foyer | | | | |
| **IFIP WG 3.1 and 3.3 meetings** | | **IFIP WG 3.7 meeting** | | |
| **13.30** | Chair: Eric Sanchez | | Chair: Don Passey | | |
| **Room**: Konstitucijos salė | | **Room**: Konservatorių frakcijos salė, III rūmai, 218b salė | | |
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| **13.30** | IFIP WG 3.1 | | IFIP WG 3.7 | | |
| Open Annual General Meeting of IFIP WG 3.1 - Informatics and Digital Technologies in School Education | | Open Annual General Meeting of IFIP WG 3.7 - Information Technology in Educational Management | | |
| **14.30** | |  | **Panel Discussion (Interactive session)** | | |
|  | | Chair: Mary Webb | Chair: Raymond Morel | | |
| **Room**: Konstitucijos salė | **Room**: Konservatorių frakcijos salė, III rūmai, 218b salė | | |
| IFIP WG 3.3  Open Annual General Meeting of IFIP WG 3.3 - Research on Education Applications of Information Technologies | *Raymond Morel with experiences namely from Rwanda, Kenya, Nepal* | | |
| *Information Security Education & Solidarity (ISES): Sharing Strategies, Implementation, and Experience: Stimulation new Action* | | |
| A more detailed description is available as a webpage at  [**http://www.ifip2015.mii.vu.lt/ISES**](http://www.ifip2015.mii.vu.lt/ISES) | | |
| **15.30** | | **Coffee Break/Poster Exhibition** | | | |
| **Place**: Seimas Restaurant/Building III Foyer | | | |
| **15.35** | | (**P**\*) *Lynne Dagg and Steven Haswell* | | | |
| Understanding Operating Systems: Considering alternative pedagogies and tools which may be utilised by teachers | | | |
| **15.45** | | (**P**\*) *Toshinori Saito* | | | |
| Teaching Programming in Terms of Supporting Socially Vulnerable Youths: A Qualitative Study of Capability Expansion and Approaching Digital Equity through Computing Education | | | |
| **16.00** | | **Paper Session T6: Innovative approaches to teaching and learning** | **Paper Session T7: Online learners experiences** | **Panel Discussion (continued)** | |
| Chair: Gerald Futschek | Chair: Silvio Giaffredo | Chair: Raymond Morel | |
| **Room**: Konstitucijos salė | **Room**: Baltijos Asamblėjos salė | **Room**: Konservatorių frakcijos salė, III rūmai, 218b salė | |
| **16.00** | | (**SP**\*\*) [*Christine Bescherer*](http://www.ph-ludwigsburg.de/)  Development of Interactive Teaching and Learning Materials for Bilingual Mathematics Education | (**SP**\*\*) *Armelle Brun, Monique Grandbastien, Julie Henry and Etienne Vandeput*  Needs analysis for an online learning service | *Raymond Morel with experiences namely from Rwanda, Kenya, Nepal*  Information Security Education & Solidarity (ISES): Sharing Strategies, Implementation, and Experience: Stimulation new Action | |
| **16.20** | | (16.20-16.50) *Hasan Gürbüz, Bengisu Evlioğlu, Tuğçe Açıkgöz, Talat Demir, Kerem Hancı, Sevinç Gülseçen and Hulusi Gülseçen* | (**SP**\*\*) *Zdena Lustigova and Pavel Brom* | A more detailed description is available as a webpage at  <http://www.ifip2015.mii.vu.lt/ISES> | |
| Motivation and Disengagement of Online Students in Remote Laboratories |
| **16.40** | | “What’s the weather like today?”: a computer game to develop algorithmic thinking and problem solving skills of primary school pupils | (**SP**\*\*) *Gioko Maina and Rosemary Waga* |  | |
| Experiences of primary school teachers undertaking on-line professional learning sessions in Kenyan coastal county |
| **17.00** | | **Guided Sightseeing** **and Conference Dinner** | | | |
| **Place**: Seimas Palace, Building II Entrance (in front of the Neris River), Gediminas ave. 53 | | | |
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| **July 3, Friday** | | | |
| **9.00** | **Keynote** | | |
| Chair: Valentina Dagienė | | |
| **Room**: Konstitucijos salė | | |
| *Peter Hubwieser* | | |
| Personal Learning Environments in Future Learning Scenarios | | |
| **10.00** | **Paper session F1: Digital literacy and competences** | **Doctoral Concortium (continued)** | **Panel Discussion (Interactive session)** |
| Chair: Ana Amelia Carvalho | Chair: *Don Passey* | Chair: *Raymond Morel* |
| **Room**: Konstitucijos salė | **Room**: Baltijos Asamblėjos salė | **Room**: Konservatorių frakcijos salė, III rūmai, 218b salė |
| **10.00** | *Mohammad Hadi Hedayati and Mart Laanpere*  Analysing the Skill Gaps of the Graduates of Vocational ICT Programs in Afghanistan | Answering questions and final discussionwith doctoral students | *Raymond Morel, Ramon Puigjaner, and Mariana Patru experts participating to the Working Conference* |
|  | Digital Equity in Developed and Developing Countries (DEDDC):   * Discovering the actual status of this IFIP project * Cooperation with WSIS action lines (IUT, Unesco, Unctad, …) * How TC3 among the other IFIP TCs can contribute? * Sharing National Strategies * Emerging roadmap Cont. * Cooperation with Unesco * Planning till WCCE’2017   A more descriptive text is available as a webpage at <http://www.ifip2015.mii.vu.lt/DigitalEquity> |
| **10.30** | *Irene Okere, Johan van Niekerk and Kerry-Lynn Thomson*  A Critical Evaluation of Information Security Education in Nursing Science: a Case Study |  |
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| **11.00** | **Coffee Break/Poster Exhibition** | | |
| **Place**: Seimas Restaurant/Building III Foyer | | |
| **11.30** | **Paper session F3: Games &Gamification** | **Symposium: Scaling up digital pedagogy and innovation in the classroom: research challenges** | **Paper session F5: Collaborative learning** |
| Chair: Gerald Futschek | Chair: Don Passey | Chair: Sindre Røsvik |
| **Room** : Baltijos Asamblėjos salė | **Room**: Konstitucijos salė | **Room**: Konservatorių frakcijos salė, III rūmai, 218b salė |
| **11.30** | *Eric Sanchez, Shawn Young and Caroline Jouneau-Sion*  Classcraft: from gamification to ludicization | *Keith Turvey and Norbert Pachler*  A problem spaces approach to pedagogical innovation through digital technologies | *Martyn Thayne, Bjoern Stockleben, Seija Jäminki, Ilkka Haukijärvi, Nicholas Mavengere, Muhammet Demirbilek and Mikko Ruohonen* |
| On Create and the Virtual Teammate: An analysis of online creative processes and remote collaboration |
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| **12.00** | *Sónia Cruz, Ana Amélia Carvalho and Inês Araújo*  Learning History: a gamified activity for mobile devices | *Niki Davis and Julie Mackay*  Co-evolutionary perspectives on innovation with digital technologies in education | *Yuya Kato, Yoshiaki Matsuzawa and Sanshiro Sakai* |
| Promoting collaborative programming for introductory programming courses through an “individual work branch and real-time sharing” approach |
| **12.30-12.50** | (**SP**\*\*) *Nicholas Mavengere and Mikko Ruohonen*  Gamification in business process management for a mobile context: Industry and Higher Education Viewpoint | *Nicholas Reynolds*  Recognising, Celebrating and Defining Innovation: The Telematics Charitable Trust’s approach to grant allocation | *Tetiana Kovaliuk and Olena Chaikovska*  Modernization and integration of IT education in Ukraine to international and Europe educational environment: problems and perspectives |
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|  |  | *Sue Cranmer and Cathy Lewin* |  |
| iTEC: Addressing the challenge to develop and identify innovation in European classrooms |
| **13.00** | **Lunch** | | |
| **Place**: Seimas Restaurant/Building III Foyer | | |
| **14.00-15.00** | **Reports of Working Groups and Closing Address** | | |
| **Room**: Konstitucijos salė | | |
| **16.00-17.00** | **Guided tour in the Parliament (for TC3)** | | |
| **18.00** | **IFIP TC3 Committee Dinner** | | |
| **Place:** Seimas Restaurant | | |
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| **July 4, Saturday** | | | |
| **9.00 – 17.00** | **IFIP TC3 Annual Meeting** | | |
|  | **Room**: Baltijos Asamblėjos salė, II rūmai | | |
| **10.30– 11.00** | **Coffee Break** | | |
| **12.30– 13.30** | **Lunch** | | |
| **15.00– 15.30** | **Coffee Break** | | |
| **18.00** | **IFIP TC3 Committee Dinner** | | |
|  | **Place:** Mykolo-4 Restaurant. Address: Šv. Mykolo str. 4-1, Vilnius Old Town | | |
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| **July 5, Sunday** | | | |
| **9.00– 15.00** | **IFIP TC3 Annual Meeting** | | |
|  | **Room**: Baltijos Asamblėjos salė, II rūmai | | |
| **10.30– 11.00** | **Coffee Break** | | |
| **12.30– 13.30** | **Lunch** | | |