



## Programme

Venue: University of Lapland (Yliopistonkatu 8), lecture hall LS2 (university main building)

### Monday 27 November

- 09:00 – 10:00 Registration and Welcome coffee
- 10:00 – 10:15 **Conference Opening**  
Chair: Dr. Heli Ruokamo, University of Lapland, Professor, Faculty of Education, Director, Centre for Media Pedagogy
- Welcoming Address by Dr. **Heli Ruokamo**, University of Lapland, Professor, Faculty of Education, Director, Centre for Media Pedagogy
- Greetings from CICERO by **Jari Multisilta**, previous CICERO chair
- 10:15 – 11:15 **Keynote 1: Mobile and Intelligent Assistants in Education**  
Professor **Agnes Kukulska-Hulme**, Institute of Educational Technology, Open University, UK
- 11:15 – 12:15 Lunch
- 12:15 – 13:30 **Session A: Media Literacies**  
Chair: Dr. Heli Ruokamo, University of Lapland, Professor, Faculty of Education, Director, Centre for Media Pedagogy
- Teaching and Learning Coding Skills: teachers' conceptions from Finland and China*  
Jari Multisilta, Pauliina Tuomi  
Tampere University of Technology, Pori, Finland
- Transcultural perspectives in developing film education: focus on children's horror films*  
Marjo Kovanen<sup>1,2</sup>, Sirkku Kotilainen<sup>1</sup>  
<sup>1</sup>University of Tampere, Tampere, Finland, <sup>2</sup>Koulukino, Helsinki, Finland
- Multiliteracy contextualizations in the local curricula for basic education in Finland*  
Lauri Palsa  
National Audiovisual Institute, Helsinki, Finland, University of Lapland, Rovaniemi, Finland

*A long way? Incorporating digitised historic newspapers in school, a case study from Finland*

Inés Matres

University of Helsinki, Helsinki, Finland

*Independent media production as participation on the border of public and private spheres*

Jetta Huttunen

University of Jyväskylä, Jyväskylä, Finland

13:30 – 14:00

Coffee/tea

14:00 – 16:30

**Session B: Media and ICT in Teaching and Learning**

Chair: Ph.D. Mari Maasilta, University lecturer, University of Lapland, Faculty of Education, Centre for Media Pedagogy

*Generation Y and the Use of Media in a Mediatized World of Work*

Kerstin Liesem

University of Media, Economics and Communications, University of Applied Sciences, Cologne, Germany

*Comics as teaching materials: case study at university classes in Japan*

Mikato Hata

Hanazono University, Kyoto, Japan

*Cross-Border online collaboration as a learning environment boost future skills-*

*Creative Steps 2.0*

Anitra Arkko

Lapland University of Applied Sciences, Tornio, Finland & Lapin yliopisto, Rovaniemi, Finland

*Exploring European citizenship through contemporary art and blogging. Experiences of using international quad blogs in an art education action research project in elementary and secondary school levels.*

Annamari Manninen

University of Lapland, Rovaniemi, Finland

*How to trigger students' interest in ICT-based environments: A review of existing research*

Liping Sun<sup>1</sup>, Pirkko Siklander<sup>2</sup>, Heli Ruokamo<sup>1</sup>

<sup>1</sup>University of Lapland, Rovaniemi, Finland, <sup>2</sup>University of Oulu, Oulu, Finland

15:15 – 15:30

Break

**Session B: Media and ICT in Teaching and Learning (cont.)**

Chair: Ph.D. Hanna Vuojärvi, University lecturer, University of Lapland, Faculty of Education, Centre for Media Pedagogy

*Media and ICT in Finnish Teacher Education - A Survey for Students*

Saara Salomaa, Lauri Palsa

National Audiovisual Institute, Helsinki, Finland

*Mobile learning -to suit different circumstances and cultures in global education*

Päivi Aarreniemi-Jokipelto<sup>1</sup>, Elias Goulart<sup>2</sup>

<sup>1</sup>Haaga-Helia University of Applied Sciences, School of Vocational Teacher Education, Helsinki, Finland, <sup>2</sup>University of Sao Caetano do Sul, Sao Caetano do Sul, Brazil

*Higher education students' perceptions of mobile learning*

Päivi Rasi<sup>1</sup>, Miikka Eriksson<sup>2</sup>, Hanna Vuojärvi<sup>1</sup>, Heli Ruokamo<sup>1</sup>

<sup>1</sup>University of Lapland, Rovaniemi, Finland, <sup>2</sup>University of Eastern Finland, Savonlinna, Finland

16:30 – 18:30 Welcome Reception, University of Lapland

## Tuesday 28 November

09:00 – 09:15

### **Opening of the day**

Chair: Dr. Heli Ruokamo, University of Lapland, Professor, Faculty of Education, Director, Centre for Media Pedagogy

Greetings from the National Audiovisual Institute's Department for Media Education and Audiovisual Media (MEKU) by Dr. **Leo Pekkala**, Head of Department/Deputy Director

Greetings from the Finnish Society on Media Education, Associate Professor **Päivi Rasi**, Chairperson

09:15 – 10:15

### **Keynote 2: Breaking the Symbol Barrier – a New Approach to Learning Mathematics**

Executive Director, Dr **Keith Devlin**  
Stanford University, H-STAR Institute, USA

10:15 – 10:45

Coffee/tea

10:45 – 12:15

### **Session C: Pedagogical Models in Educational Use of ICT's and Media**

Chair: Ph.D. Päivi Rasi, Associate professor, Docent, University of Lapland, Faculty of Education, Centre for Media Pedagogy

*Digital transformation, computational thinking and scientific reasoning skills: a review*

Linda Mannila<sup>1</sup>, Jenni Airola<sup>2</sup>, Teemu Leinonen<sup>1</sup>, Marjaana Veermans<sup>2</sup>, Marjo Virnes<sup>1</sup>

<sup>1</sup>Aalto University, Espoo, Finland, <sup>2</sup>University of Turku, Turku, Finland

*Co-creation of Simulation Game for Learning the Use of Official Communication*

Tuulikki Keskitalo, Hanna Vuojärvi, Henna Marttila, Alhonsuo Mira  
University of Lapland, Rovaniemi, Finland

*Analysis of Finnish Ten-Year Old Students Participating in an International Digital Makerspace Community*

Veera Kallunki<sup>1</sup>, Eric Hamilton<sup>2</sup>

<sup>1</sup>University of Helsinki, Helsinki, Finland, <sup>2</sup>Pepperdine University, Malibu, USA

*Collaborative problem solving in higher education*  
Pirkko Siklander, Niina Impiö, Essi Vuopala, Piia Näykki  
University of Oulu, Oulu, Finland

*Towards social learning styles using ICTs in Arctic pedagogies and learning in the North*  
Outi Laiti<sup>1</sup>, Satu-Maarit Frangou<sup>1</sup>, Pigga Keskitalo<sup>2,1</sup>  
<sup>1</sup>University of Lapland, Rovaniemi, Finland, <sup>2</sup>Sámi allaskuvla, Kautokeino, Norway

*Project MOVIEdu: Exploring Pedagogical Use of Video and Social Media for Physical Exercise Class in Elementary School*  
Wonsuk Choi<sup>1</sup>, Elisa Juola<sup>2</sup>  
<sup>1</sup>University of Lapland, Rovaniemi, Finland, <sup>2</sup>Saari Elementary School, Rovaniemi, Finland

12:15 – 13:15

Lunch

13:15 – 14:00

**Session D: Playful and Game-Based Learning**

Chair: Ph.D. Marjaana Kangas, University lecturer, Docent, University of Lapland, Faculty of Education, Centre for Media Pedagogy

*Learning by Playing with the Internet of TOys: TOy Literacy, Pre-Schoolers and the Educational Value of Connected Characters*  
Katriina Heljakka<sup>1,2</sup>, Pirita Ihamäki<sup>3</sup>  
<sup>1</sup>Turun Yliopisto, Pori, Finland, <sup>2</sup>Pirita, Ihamäki, Finland, <sup>3</sup>Priztech Ltd, Pori, Finland

*Enhancing engagement, enjoyment and learning experiences by gamification on an English course for health care students*  
Kirsi Korkealehto, Pirkko Siklander  
University of Oulu, Oulu, Finland

*University students as playful learners and knowledge co-creators*  
Marjaana Kangas<sup>1</sup>, Pirkko Siklander<sup>2</sup>  
<sup>1</sup>University of Lapland, Rovaniemi, Finland, <sup>2</sup>University of Oulu, Oulu, Finland

14:00 – 14:30

Coffee/tea

14:30 – 15:45

**Session E: 3D, Augmented Reality, Virtual and Simulation-Based Learning**

Chair: Ph.D. Tuulikki Keskitalo, Post-doctoral researcher, University of Lapland, Faculty of Education, Centre for Media Pedagogy

*Developing virtual reality research in education for understanding the role of emotions, stress and their underlying brain states in learning*  
Mikko Vesisenaho, Merja Juntunen, Päivi Häkkinen, Johanna Pöysä-Tarhonen, Tiina Parviainen, Jan Wikgren, Viki-Veikko Elomaa,  
University of Jyväskylä, Jyväskylä, Finland

*Augmented reality sandbox for early childhood learning: design research*  
Teemu Leinonen, Jaana Brinck  
Aalto University School of Arts, Design and Architecture, Helsinki, Finland

*Introducing Virtual Reality Technologies to Design Education*  
Jonna Häkkinen, Ashley Colley, Jani Väyrynen, Antti-Jussi Yliharju  
University of Lapland, Rovaniemi, Finland

*New and old writing skills; developing the competence of multimodal writing*  
Satu-Maarit Frangou  
University of Lapland, Rovaniemi, Finland

*Self-Assessing Online Services for Teachers and Principals - Empowering teachers and principals to develop school digital process*  
Jarmo Viteli, Erika Tanhua-Piiroinen  
University of Tampere, Tampere, Finland

19:00 -

Conference Dinner, Sky Hotel Rovaniemi