

LEARNING FUTURES – FUTURES OF LEARNING

8-9 June 2021, Online

SESSION PROGRAMME

The Main Conference Programme has been published at the webpages

<https://futuresconference2021.com/>

Updated 31 May 2021

Tuesday 8th June

Tracks:	Track 1	Track 2	Track 3	Track 4	Track 5	Track 6	Track 7
Session I 15:10–16:40	Rethinking learning in societal transformations	Futures research in learning and education	Futures education and learning: pedagogy, skills and competences, forms of learning	WS: Experiencing words about futures	WS: Learning in complexity is walking a fine line: how anticipation for emergence can help us.	WS: Futures start from within	
Session II 16:50–18:20	Rethinking learning in societal transformations	Futures research in learning and education	Research methods and theoretical approaches in futures studies	Societal transformation beyond learning	WS: Futures Literacy and Organizational Leadership	WS: Rethinking Futures – An exercise in speculation to (re)gain transformative spaces	WS Teach the Future, Update 2020
Session III 18:30–20:00	Research methods and theoretical approaches in futures studies	Learning as systemic capability: Learning regions and innovation systems	Special Session – Futures education in Finland: case studies	WS: Poetry as a Method for Futures Literacy: Verses of Longtermism	WS: Education for the future: intergenerational collective thinking future labs to improve school strategy	WS: Anticipatory Systems and the Futures of Learning	

Wednesday 9th June

Tracks: Session	Track 1	Track 2	Track 3	Track 4	Track 5	Track 6	Track 7
12:10–13:30 Session IV	Rethinking learning in societal transformations	Digitalisation of learning environments	Nature and environment in education: addressing sustainability and ecological pressures	Special Session – The future of learning, skills and work force in Finland until 2035	WS: Futures literacy for learning regions	WS: Learning Futures and the Role of the University in 2040	WS: A ‘new normal’? Applying a participatory CLA approach to examine metaphors and myths
13:40–15:00 Session V	Futures education and learning: pedagogy, skills and competences, forms of learning	Special Session – Beyond Industry 4.0 Curriculum : Challenges of Multi-contextual Learning World	Special Session – The role and benefits of learning futures orientation in the private sector	WS: Changing Thinking Hats for Brain based Problem Solving	WS: Facilitating Identity Work in Futures Literacy training programs	WS: Innovation Labs as Learning Platforms: Designing Future-oriented Strategies and Interventions for Accelerated Learning	
15:30-17:00 Session VI	Learning as systemic capability: Learning regions and innovation systems	Special Session – Sources and risks of digital transformation	WS: Introducing Futures Consciousness and testing the Futures Consciousness Profile Database	WS: Wabi Sabi Game - Experience to understand the transformation era	WS Riddle of the Spirit: Imaginative and multimodal pedagogy for young children’s climate change education	WS Educating designers in designing futures – a workshop on teaching futures	

Tuesday 8 JUNE 2021

Session I at 15:10-16:40

Rethinking Learning in Societal Transformations

Time: Tuesday 8 June at 15:10-16:40

Chair: Dr. Juha Kaskinen

The Learning Process in a Foresight Perspective

Tamás Gáspár

Budapest Business School, Hungary

Liquid Education

Fabienne Goux-Baudiment

ProGective, France

A personal reflection on learning and teaching futures studies

Christoph Keller

Aventure GmbH, Germany

Futures research in learning and education

Time: Tuesday 8 June at 15:10-16:40

Chair: Dr. Maija Mäki

The Future of wellbeing in Higher Education

Lana Hiasat^a & Leilani Radaideh^b

^aHigher Colleges of Technology, Dubai

^bMaastricht University, The Netherlands

Education for Desirable Future: Collective Answers

Lidia Kremneva

Metaversity, Russia

Visions for Early Childhood Education and Care 2040. Foresight Process by Advisory Board on Early Childhood Education and Care

Anne Nieminen & Leena Jokinen

Finland Futures Research Centre, University of Turku

Food education

Pia Smeds

Natural Resources Institute Finland

Futures education and learning: pedagogy, skills and competences, forms of learning

Time: Tuesday 8 June at 15:10-16:40

Chair: Dr. Sofi Kurki

Design as part of the teaching of Future Studies: The Experience of the Latin American Voluntary Prospective Methodology and Design Schools

Fredy Vargas-Lama^a & Alessandro Manetti^b

^aCenter for Strategic Thinking and Foresight / Universidad Externado de Colombia, Colombia

^bIstituto Europeo di Design, Spain

Designing desired futures

Minna Koskelo^a & Anu Nousiainen^b

^aHelsinki, Finland

^bVTT, Finland

Learning from Yesterday's Tomorrows: Extending the Futures Cone for Design Fiction

Anijo Mathew^a, Shilpi Kumar^b, Jessie Lujia Yu^c & Rachel Huvad^c

^aAmerican University of Sharjah, UAE

^bKhoj Lab, U.S.A.

^cIIT Institute of Design, U.S.A.

Co-creating Possible Futures of Light, beyond Lighting

Marco Bevolo^a & Tapio Rosenius^b

^aBreda University of Applied Sciences, The Netherlands

^bLighting Design Collective and SKANDAL Technologies, Finland

Workshop: Experiencing words about futures

Time: Tuesday 8 June at 15:10-16:40

Facilitators: Mikko Dufva^a & Tomi Slotte Dufva^b

^aThe Finnish Innovation Fund Sitra, Finland

^bAalto University, Finland

Workshop: Learning in complexity is walking a fine line: how anticipation for emergence can help us

Time: Tuesday 8 June at 15:10-16:40

Facilitators: Loes Damhof, Elles Kazemier & Ramila Khafaji Zadeh

Hanze University of Applied Sciences, The Netherlands

Workshop: Futures start from within

Time: Wednesday 9 June at 13:40-15:00

Facilitators: Jussi Hölttä

Interbeing, Finland

Session II at 16:50-18:20

Rethinking learning in societal transformations

Time: Tuesday 8 June at 16:50-18:20

Chair: Dr. Petri Tapio

Rethinking Papert's Learning for Transformative Futures: An Autobiographical Research Approach

Amos Taylor

Finland Futures Research Centre, University of Turku, Finland

Identifying educators as brand ambassadors, designing the approach to mobilize them: a co-creative approach to inspire teachers to act as agents of change for environmental futures

Marco Bevolo^a & Jean-Oneli Blaise^b

^aBreda University of Applied Sciences, The Netherlands

^bVoice of the Youth St. Maarten, The Netherlands

Transposing Quantum Physics Determinants into Transformative Learning Solutions

Patrick Corsi

IKBM Sprl, Belgium

Collaborative Foresight Network for Sustainability Development within Cruise Shipbuilding

Leena Jokinen^a & Tuire Palonen^b

^aFinland Futures Research Centre, University of Turku, Finland

^bUniversity of Turku, Finland

Futures research in learning and education

Time: Tuesday 8 June at 16:50-18:20

Chair: Dr. Maria Höyssä

Participatory future-creating methods applied in university courses - example of the use of Foresight; Backcasting and Horizon Scanning

Judit Gáspár, Éva Hideg & Alexandra Köves

Corvinus University of Budapest, Hungary

Erasmus project Foresight, five universities working together for a desirable Future of Europe

Monica Veeger^a, Irati Agirreazkuenaga^b, Oguz Demir^c, Vilmos Vas^d, Ferenc Kiss^d & Gie Segers^e

^aFontys University of Applied Sciences, The Netherlands

^bUniversidad del Pais Vasco, Spain

^cIstanbul Ticaret Universitesi, Turkey

^dBudapest Metropolitan University, Hungary

^eKdG University for applied Sciences and Arts, Belgium

Foresight Skills for Education – Experiences and Future Prospects

Tarja Meristö & Jukka Laitinen

Laurea University of Applied Sciences / FuturesLab CoFi, Finland

Building a Competence Identity in IT-field

Leena Toivanen & Hanna Lahnalampi
Centria University of Applied Sciences, Finland

Research methods and theoretical approaches in futures studies

Time: Tuesday 8 June at 16:50-18:20
Chair: Dr. Burkhard Auffermann

What can be learnt from participatory food system scenario and vision literature?

Titta Tapiola & Vilja Varho
Natural Resources Institute (LUKE), Finland

Association of common megatrends and business strategies by Finnish dairy farmers

Susanna Lahnamäki-Kivelä^a & Tuomas Kuhmonen^b
^aNatural Resources Institute (LUKE), Finland
^bFinland Futures Research Centre, University of Turku, Finland

Farmers' futures – a novel Delphi application combining qualitative and quantitative grassroots future views

Jaana Sorvali, Vilja Varho, Janne Kaseva & Pasi Rikkonen
Natural Resources Institute (LUKE), Finland

Taming the wild bunch – the role of moderation in mushroomers' peer learning social media group

Minna Santaoja
Finland Futures Research Centre, University of Turku, Finland

Societal transformation beyond learning

Time: Tuesday 8 June at 16:50-18:20
Chair: Dr. Katriina Siivonen

Heritage futures as ways towards sustainability

Katriina Siivonen
Finland Futures Research Centre, University of Turku, Finland

Total heritage: learning futures of grasping the inherited present

Kastytis Rudokas^a, Indrė Gražulevičiūtė-Vilėniškė^a & Silvija Čizaitė-Rudokienė^b
^aKaunas University of technology, Lithuania,
^bVytautas Magnus University, Faculty of Catholic Theology, Lithuania

Emergentist education and the opportunities of radical futurity

Susanna Barrineau, Laila Mendy & Anne-Kathrin Peters
Uppsala University, Sweden

Futures images - A systematic literature review

Marileena Mäkelä^a, Marjukka Parkkinen^b & Petri Tapio^b
^aJyväskylä University, Finland
^bFinland Futures Research Centre, University of Turku, Finland

Workshop: Futures Literacy and Organizational Leadership

Time: Tuesday 8 June at 16:50-18:20

Facilitator: Deborah Schreiber

Brandman University, USA

Workshop: Rethinking Futures – An exercise in speculation to (re)gain transformative spaces

Time: Tuesday 8 June at 16:50-18:20

Facilitators: Wenzel Mehnert^a & Nele Fischer^b

^aUniversity of Arts, Berlin, Germany

^bBerlin Ethics Lab, Technische Universität Berlin, Germany

Workshop: Teach the Future, Update 2020

Time: Tuesday 8 June at 16:50-18:20

Facilitators: Peter Bishop^a & Lourdes Rodriguez^b

^aTeach the Future, USA

^bTeach the Future, Spain

Session III at 18:30-20:00

Research methods and theoretical approaches in futures studies

Time: Tuesday 8 June at 18:30-20:00

Chair: Dr. Veli Virmajoki

The General Frame of Consistence as learning-based philosophy of scientific futures research

Osmo Kuusi

Finland Futures Research Centre, University of Turku, Finland

Meta-Cognitive Sensitivity in Disjunctive Reasoning for Intentional Imagery

Peter Österberg

Department of Economics and Management, University of Helsinki, Finland

Futures Consciousness increases resilience during crises: Experiences from the UK during the COVID-19 pandemic

Sanna Ahvenharju^a, Matti Minkkinen^a, Fanny Lalot^b, Dominic Abrams^b

^aFinland Futures Research Centre, University of Turku, Finland

^bSchool of Psychology, University of Kent, UK

There was a strange stillness – auditory ambiances for imagining futures

Vera Karina Gebhardt Fearnis
Nova School of Business and Economics, Universidade Nova de Lisboa, Portugal

Learning as systemic capability: Learning regions and innovation systems

Time: Tuesday 8 June at 18:30-20:00

Chair: Leena Jokinen, Education Manager, Finland Futures Research Centre

Energizing Collaborative Industry-Academia Learning: A Present Case and Future Visions

Petri Kettunen^a, Janne Järvinen^b, Tommi Mikkonen^a & Tomi Männistö^a

^aUniversity of Helsinki, Department of Computer Science, Finland

^bLegisperus, Espoo, Finland

Futures Literacy for TVET: Activity-Based Learning Model “Open Foresight Laboratory 3.0”

Tatiana Yakubovskaya

Tampere Vocational College Tredu, Finland

National Research Tomsk State University, Russia

Development of Future Capabilities in Alliances, Acquisitions and Mergers

Risto Sivonen

Turku School of Economics, University of Turku, Finland

Special Session: Futures Education in Finland: Case Studies

Time: Tuesday 8 June at 18:30-20:00

Facilitators: Sari Miettinen & Johanna Ollila

Finland Futures Research Centre, University of Turku, Finland

Workshop: Poetry as a Method for Futures Literacy: Verses of Longtermism

Time: Tuesday 8 June at 18:30-20:00

Facilitators: Anna Sacio-Szymańska^a, Essi Silvonon^b, Nick Balcom Raleigh^b, Amos Taylor^b, Noora Vähäkari^b & Solveig Zophoniasdottir^c

^a4CF Strategic Foresight, Warsaw, Poland

^bFinland Futures Research Centre, University of Turku, Finland

^cClimate-KIC, Denmark

Workshop: Education for the future: intergenerational collective thinking future labs to improve school strategy

Time: Tuesday 8 June at 18:30-20:00

Facilitator: Lidia Kremneva

Metaversity, Russia

Workshop: Anticipatory Systems and the Futures of Learning

Time: Tuesday 8 June at 18:30-20:00

Facilitator: Riel Miller

UNESCO, France

WEDNESDAY 9 JUNE 2021

Session IV at 12:10–13:30

Rethinking learning in societal transformations

Time: Wednesday 9 June at 12:10–13:30

Chair: Dr. Sari Puustinen

Four Cities, Four Speculations: Using Design Fiction to imagine New Urban Futures

Anijo Mathew

American University of Sharjah, UAE

Teaching Urban Sustainability Transitions and Futures: Pedagogical Hiccups Across Systems of Used-Futures

Idil Gaziulusoy

Aalto University, Finland

Landscape Architecture as a Transformative Force for Greener Cities Under Stress

Ana Jones

Finland Futures Research Centre, University of Turku, Finland

Learning to be prepared by imagining the future: the built environment context

Lassi Tähtinen, Anahita Rashidfarokhi & Saija Toivonen

Aalto University, Finland

Digitalisation of Learning Environments

Time: Wednesday 9 June at 12:10–13:30

Chair: Dr. Juha Kaskinen

Bringing the future of learning into classrooms: Robot-assisted language learning

Liisa Peura, Outi Veivo, Minna Maijala, Maarit Mutta and Marjut Johansson

School of Languages and Translation Studies, University of Turku, Finland

Analysing digital tools in future learning environments

Signe Juhl-Nørgaard^a & Thomas Sørensen^b

^aUniversity of Helsinki, Finland

^bEdukat, Denmark

Artificial Intelligence Providing New Tools for Learners – a Finnish Case of the Innovation Ecosystem

Hannele Niemi & Päivi Kousa

University of Helsinki, Finland

Nature and environment in education: addressing sustainability and ecological pressures

Time: Wednesday 9 June at 12:10–13:30

Chair: Dr. Marileena Mäkelä

Futures literacy for deliberate whole system transformation

Nick Balcom Raleigh^a, Riel Miller^b, Kim Riyong^c, Anna Sacio-Szymańska^d, Amos Taylor^a, Essi Silvonon^a, Noora Vähäkari^a & Beata Poteralska^e

^aFinland Futures Research Centre, University of Turku, Finland

^bUNESCO, France

^cEIT Climate-KIC, Denmark

^d4CF Strategic Foresight, Poland

^eŁukasiewicz Research Network - Institute for Sustainable Technologies, Poland

Subjectification, transformative learning and futures literacy – rethinking education for sustainable development

Erkka Laininen^a & Otto Tähtäpää^b

^aOKKA Foundation for Teaching, Education and Personal Development, Finland

^bTulevaisuuskoulu, Finland

The skills of the 4th industrial revolution at the service of sustainable development: The case of Spain and Latin America

Fredy Vargas-Lama, Francisco Mojica, Francisco López-Segrera & Viviana Villarraga
Center for Strategic Thinking and Foresight, Universidad Externado de Colombia

Special Session: The future of learning, skills and work force in Finland until 2035

Time: Wednesday 9 June at 12:10-13:30

Facilitator: Jukka Vepsäläinen, EDUFI Finnish National Agency for Education

Introduction

Jukka Vepsäläinen

Senior advisor, FORESIGHT Team, EDUFI

The Delphi Process of the National Forum for Skills Anticipation

Jukka Vepsäläinen

Senior advisor, FORESIGHT Team, EDUFI

Anticipation of the skills needs and educational needs in Finland

Kari Nyssölä

Head of FORESIGHT Team, EDUFI

Finnish schools and education government exploring complexity together

Anneli Rautiainen & Paula Tyrväinen

Innovation and Development, EDUFI

Workshop: Futures Literacy for Learning Regions

Time: Wednesday 9 June at 12:10-13:30

Facilitator: Tatiana Yakubovskaya

Tampere Vocational College Tredu, Finland

National Research Tomsk State University, Russia

Workshop: Learning Futures and the Role of the University in 2040

Time: Wednesday 9 June at 12:10-13:30

Facilitator: Maree Conway

Foresight Futures, Australia

Workshop: A 'new normal'? Applying a participatory CLA approach to examine metaphors and myths

Time: Wednesday 9 June at 12:10-13:30

Facilitator: Joni Karjalainen

Finland Futures Research Centre, University of Turku, Finland

Session V at 13:40–15:00

Futures education and learning: pedagogy, skills and competences, forms of learning

Time: Wednesday 9 June at 13:40-15:00

Chair: Dr. Katriina Siivonen

Learning futures thinking via flipped learning – experiences with international forest science students

Teppo Hujala

School of Forest Sciences, University of Eastern Finland, Finland

Science education for developing students' futures thinking and agency

Antti Laherto & Tapio Rasa

University of Helsinki, Finland

It's all a game - Ready to play on the campus of the future?

Thomas Mengel

University of New Brunswick, Canada

The future of personalized education - The philosophical and practical problems to be solved

Hanna Willman-livarinen

Häme University of Applied Sciences, Finland

Special Session: Beyond Industry 4.0 Curriculum: Challenges of Multi-contextual Learning World

Time: Wednesday 9 June at 13:40-15:00

Facilitator: Jari Kaivo-oja, Mikkel Stein Knudsen & Theresa Lauraeus

Finland Futures Research Centre, University of Turku

Educating for futures of work with direct human-robot interaction: Insights on future skills needs based on a literature review of cobot literature

Mikkel Stein Knudsen, Jari Kaivo-oja & Theresa Lauraeus

Finland Futures Research Centre, University of Turku, Finland

Special Session: The role and benefits of learning futures orientation in the private sector

Time: Wednesday 9 June at 13:40-15:00

Chair: Dr. Sanna Ketonen-Oksi

Laurea University of Applied Sciences, Finland

Introduction to Theme

Sanna Ketonen-Oksi

Laurea University of Applied Sciences, Finland

Foresight in entrepreneurial opportunity

Ksenija Djuricic

EM Strasbourg Business School, France

Finland Futures Research Centre, University of Turku, Finland

Teaching future-oriented entrepreneurship in the age of digitization

Anna Sacio-Szymańska^a, Stefanie Ollenburg^b, Leonello Trivelli^c, Anna Kononiuk^d, Ibon Zugasti^e & Anna Pająk^f

^a4CF Strategic Foresight, Poland

^bFree University Berlin, Institut Futur, Germany

^cPisa University, Italy

^dBialystok University of Technology, Poland

^eProspektiker, Spain

^fŁukasiewicz Research Network - Institute for Sustainable Technologies, Poland

Developing organisational futures orientation – a process of continuous learning and transforming

Sanna Ketonen-Oksi

Laurea University of Applied Sciences, Finland

Workshop: Changing Thinking Hats for Brain based Problem Solving

Time: Wednesday 9 June at 13:40–15:00

Facilitator: Vindhya Singh

Centre for Preparatory Studies, Sultan Qaboos University, Oman

Workshop: Facilitating Identity Work in Futures Literacy training programs

Time: Wednesday 9 June at 13:40-15:00

Facilitators: Petra H.M. Cremers & Jitske Gulmans

Hanze University of Applied Sciences, the Netherlands

Mastering Futures Literacy: Rethinking teaching in societal transformations

Elles Kazemier, Loes Damhof, Jitske Gulmans & Petra Cremers

Hanze University of Applied Science, The Netherlands

Workshop: Innovation Labs as Learning Platforms: Designing Future-oriented Strategies and Interventions for Accelerated Learning

Time: Wednesday 9 June at 13:40-15:00

Facilitators: Riikka Manninen & Heljä Franssila

Senate Properties, Finland

Session VI at 15:30–17:00

Learning as systemic capability: Learning regions and innovation systems

Time: Wednesday 9 June at 15:30–17:00

Chair: Dr. Jarmo Vehmas

Learning with off-grid solar energy in the Global South – market leapfrogging or strengthening the base?

Joni Karjalainen

Finland Futures Research Centre, University of Turku, Finland

Tourism and Futures: A “greensight” perspective into microentrepreneurship-based tourism in environmentally-sensitive areas: the case of Dota County in Costa Rica

Ana Jones^a & Daniel L. Avendaño^b

^aFinland Futures Research Centre, University of Turku, Finland

^bUniversidad Nacional, Costa Rica

Data literacy as a systemic capability for European growth corridors

Ira Ahokas^a, Helka Kalliomäki^b & Nick Balcom Raleigh^a

^aFinland Futures Research Centre, University of Turku, Finland

^b School of Management, University of Vaasa, Finland

Foresight model for understanding South Savo future skills needs

Antti Rajala & Hanna Kautiainen

South Savo Regional Council, Finland

Special Session: Sources and risks of digital transformation

Time: Wednesday 9 June at 15:30–17:00

Chair: Dr. Osmo Kuusi

Introduction to theme of the Session

Osmo Kuusi

Finland Futures Research Centre, University of Turku, Finland

The Transition from Artificial Narrow Intelligence to Artificial General intelligence will change Learning and Education

Jerome C. Glenn

The Millennium Project, USA

Followed by comments and discussion by Osmo Kuusi

How can we learn from Nature to proactively procure the built environment as resilient against crises? Bio-economy driving digital meanings society

Sirkka Heinonen

Finland Futures Research Centre, University of Turku, Finland

Technology Acceleration and the Future of Humanity in The Fourth Industrial Revolution

Felipe Arocena

Universidad de la República, Uruguay

Workshop: Introducing Futures Consciousness and testing the Futures Consciousness Profile Database

Time: Wednesday 9 June at 15:30–17:00

Facilitators: Sanna Ahvenharju, Matti Minkkinen & Martyn Richards

Finland Futures Research Centre, University of Turku, Finland

Workshop: Wabi Sabi Game - Experience to understand the transformation era

Time: Wednesday 9 June at 15:30–17:00

Facilitators: Martijn Derksen, Harm van den Wijngaard & Anne Nabuurs

Fontys University of Applied Sciences, The Netherlands

Workshop: Riddle of the Spirit: Imaginative and multimodal pedagogy for young children's climate change education

Time: Wednesday 9 June at 15:30–17:00

Facilitators: Chin-Chin Wong, Jenny Byman & Jenny Renlund

University of Helsinki, Finland

Workshop: Educating designers in designing futures – a workshop on teaching futures

Time: Wednesday 9 June at 15:30–17:00

Facilitator: Stefanie Ollenburg

Freie Universitaet Berlin, Germany

Chaired Poster Session

Time: Wednesday 9 June at 17:15–18:15

Chair: Dr. Juha Kaskinen

AI for all: Accessible and Inclusive AI in Future Educational Contexts

Tero Avellan

Tampere University, Finland

Middle School Futures Club: Serious-minded fun to build students' futures literacy, critical thinking, and collaboration skills

Bes Baldwin, University of Houston Foresight, U.S.A

Circular economy needs more comprehensive and inclusive status at Finnish universities of applied sciences

Kari Laasasenaho^a, Risto Lauhanen^a, Aino Voutilainen^b, Tarja Moilanen^b, Kirsi Knuuttila^b, Jenni Suominen^c, Piia Nurmi^c, Sanna Tyni^d & Pentti Viluksela^e

^aSeinäjoki University of Applied Sciences, Finland

^bJAMK University of Applied Sciences, Finland

^cTurku University of Applied Sciences, Finland

^dLapland University of Applied Sciences, Finland

^eMetropolia University of Applied Sciences, Finland