20th European Conference on e-Learning - ECEL 2021
28 - 29 October 2021
A Virtual Conference Supported by University of Applied Sciences,
Hochschule für Technik und Wirtschaft Berlin (HTW) Berlin, Germany
Conference runs to UK time - (GMT +1HR)

Wednesday 27 October 2021

14:00 - 16:00	**Workshop: Experiences in developing and implementing online MT Remote Labs (Zoom Room 1)** *Led by: Dr Sheryl Williams, Loughborough University, UK*
14:30- 18:00	**Finalist presentations for the 2021 e-Learning Excellence Awards (Zoom Room 2)** **Judges:** Paula Charbonneau, Gowdy Reet Cronk, Susan Crichton and Colin Loughlin

Thursday 28 October 2021

08:30	**Zoom Room 1 Opens**
09:00	**Room 1** **Welcome and Opening of the Conference: Prof. Dr. Tilo Wendler, Vice-President, HTW Berlin, Germany**
09:10	**Keynote Presentation: Dr. Dan Remenyi, Extraordinary Professor at the University of the Western Cape, South Africa** ***The University of the Future***
09:55	**Conference splits into rooms**

	Room 1 **Stream A: Mini Track on Remote Laboratory and Simulations for eLearning** **Chair: Sheryl Williams**	**Room 2** **Stream B: Language learning and Podcasts** **Chair: Tone Vold**	**Room 3** **Stream C: Games and Online Knowledge Sharing** **Chair: Dagmar Monett Díaz**
10:00	Using Gamification and Flipped Classroom for Remote/Virtual Labs for Engineering Students Maren **Schnieder**, Sourav **Ghosh** and Sheryl **Williams**, Loughborough Unniversity, UK	Learning L2 Through the Use of Technology Outside Class Adam **Christopher**, Monash University, Melbourne, Australia	Narratives in Gamification: Considerations for Supporting Digital Literacy of the Elderly Carolin **Gellner** and Ilona **Buchem**, Beuth University of Applied Sciences, Germany
10:20	Conceptual Recommendations for Collaborative and Experience-based Learning in Virtual Environments Regina **Friess** and Florian **Gnadlinger**, University of Applied Sciences, HTW Berlin, Germany	OPSCL: A Comprehensive System of Reviews for Chinese Learning Materials Stephan Hyeonjun **Stiller** and Felix **Chao**, The Chinese University of Hong Kong, Hong Kong	Game-Based Learning for Cybersecurity Awareness Training Programmes in the Public Sector Maria Lourdes **Bacud** and Sten **Mäses,** TalTech, Talinn, Estonia
10:40	Innovative Remote Laboratory to Enhance Remote Learning for HE Digital Electronics Subjects Ben **Clark**, Alford **Chauraya** and Sheryl **Williams**, Loughborough University, UK	A Review of Podcast as a Learning Media in Higher Education Renè Holm **Andersen** and Susanne **Dau**, University College of Northern Denmark, Denmark	Information Literacy, Online Knowledge Sharing Behaviour, and Innovation Performance Chiyao **Sun**, Ji'an **Liu**, Yanru **Xu**, University of Chinese Academy of Sciences, Beijing, China and Liana **Razmerita**, Copenhagen Business School, Denmark (presentation only)
11:00	Remote Teacher Training During COVID Lockdown by e-Learning Lab (University of Crete) Panagiotes **Anastasiades**, Konstantinos **Kotsidis**, Christos **Synnefakis** and Alexia **Spanoudaki** University of Crete eLearning Lab,	On-Demand Placement Test Options within a Moodle Environment Thomas **Goetz**, Hokusei Gakuen University, Sapporo, Japan	STEAM-5E: Adapting the 5E Methodology to the STEAM Approach Germán **Ros**, Universidad de Alcalá, Spain (Presentation only)
11:20	**Break**	**Break**	**Break**

Zoom Room Details

Passcode for all sessions is ECEL21

Room 1
https://us02web.zoom.us/j/85684448236
(The conference will start in this room)

Room 2
https://us02web.zoom.us/j/86504791339

Room 3
https://us06web.zoom.us/j/85493509003

Room 4
https://us02web.zoom.us/j/81398245435

	Room 1 **Stream A: Mini Track on Applying Innovative Applications** **Chair: Ayanda Pamella Deliwe**	Room 2 **Stream B: Teachers** **Chair: Eskil Andersen**	Room 3 **Stream C: Online Communities** **Chair: Elaine Walsh**	Room 4 **Stream D: PhD and Masters Colloquium (Session ends by 13:00)** **Chair:** **10 minute presentations with time for discussion and feedback**
11:30	An Innovative Platform to Promote Social Media Literacy in School Contexts Davide **Taibi**, Giovanni **Fulantelli**, Lidia **Scifo**, Vito **Monteleone** and Daniele **Schicchi**, National Research Council of Italy - Institute for Educational Technology, Italy	Examining the Effectiveness Between Course Delivery Modes in a Teacher Training SPOC-based Flipped Course Kelvin **Wan**, Theresa **Kwong**, Chong **Xiao** and Eva Y. W. **Wong**, Hong Kong Baptist University, China	Features of e-Learning in the System of Studying Social Responsibility of Students Knissarina Malika **Maksatovna**, Makasheva Aliya **Maratovna** and Zhumaliyeva Gulmira **Sainovna**, West Kazakhstan Marat Ospanov Medical University, Aktobe, Kazakhstan, Syzdykbayeva Aigul **Dzhumanazarovna** and Baikulova Aigerim **Meirkhanovna**, Abai Kazakh National Pedagogical University, Kazakhstan, Almaty,	The use of Programming Tools in Teaching and Learning Material by K-12 Teachers Niklas **Humble**, Mid Sweden University, Östersund, Sweden Linking Digital Technologies to Learning in Higher Education: Skills, Tools and Practices Ourania **Miliou** and Charoula **Angeli**, University of Cyprus, Cyprus Playful Online Learning Environments Promote Student Teachers' Renegotiation of the Learner Roles Vici Daphne **Händel** and Mie **Buhl**, Aalborg University, Denmark Towards a Framework for Teaching Secure Coding Practices to Programming Students Vuyolwethu **Mdunyelwa**, Lynn **Futcher**, Nelson Mandela University, Port Elizabeth, South Africa and Johan **van Niekerk**, Noroff University College, Norway Improving Student Engagement and Satisfaction Using Universal Design for Learning and storytelling Sara **Alharbi** and Paul **Newbury**, University of Sussex, UK Expansive Learning During Pandemic Teaching: Collaborative Digital Textbooks in Secondary Biology Courses Kristi **Nourie**, University of Cambridge, UK Utilization of Remote Access and Distance Control Technology for the Management of Virtual Classrooms, during the Covid-19, in Vocational Education and Training (VET) specialties' laboratories Dimitrios **Magetos**, Ioannis **Sarlis**, Dimitrios **Kotsifakos** and Christos **Douligeris**, University of Piraeus, Greece Studying the Impact of Gamification on Motivation in Remote Programming Education Lauren **Scott** and Nick **Dalton**, Northumbria University, UK Data-Driven Understanding of Computational Thinking Assessment: A Systematic Literature Review Negar **Shabihi** and Mi Song **Kim**, Western University, Canada Virtual Worlds to Teach Sustainability Topics in Distance Learning Michelina **Occhioni** and Eleonora **Paris**, University of Camerino, Italy
11:50	Exploratory Study of a 360° Model in Environmental Engineering Education Mario **Wolf**, Stefanie **Hörnlein**, Florian **Wehking** and Heinrich **Söbke**, Bauhaus-Universität Weimar, Germany	Future Teachers' Attitude Toward Using Digital Technology in Instruction: Questionnaire Survey Results Tomas **Javorcik** and Tatiana **Havlaskova**, University of Ostrava, Czech Republic	Network Interaction as a way of Innovative Development of the University: Case of Ural Federal University Daria **Shalina**, Viola **Larionova** and Natalia **Stepanova**, Ural Federal University, Russia	
12:10	Self-Paced Learning in Virtual Worlds: Opportunities of an Immersive Learning Environment Madlene **Leißau**, Sven **Hellbach** and Christoph **Laroque**, University of Applied Sciences Zwickau, Germany	Trainee Teachers Preparation for Developing of Pre-School Children Information Literacy and a Computational Thinking Petra **Vaňková**, Jakub **Lapeš**, Daniel **Tocháček** and Josef **Procházka**, Charles University, Czech Republic	Learning Through Social Distancing: WhatsApp as Community of Inquiry Sweta **Patnaik**, CPUT, Cape Town, South Africa	
12:30	Can Zoom Replace the Classroom? Perceptions on Digital Learning in Higher Education within IT Hanne **Sørum**, Kjetil **Raaen** and Rolando **Gonzalez**, Kristiania University College, Oslo, Norway	Teacher Motivation During Corona-Crisis, Facing "Black Screens" and Missing "Watercoolers" Tone **Vold**, Stig **Holen** and Monica L. **Lervik**, Inland Norway University of Applied Sciences, Norway	Studying Algorithmic Fairness in Moodle Learning Analytics Using Code Analysis Hassan **Tagharobi** and Katharina **Simbeck** Hochschule für Technik und Wirtschaft Berlin (HTW), Germany	
12:50	**Break**	**Break**	**Break**	
	Room 1 **Stream A: Mobile Learning, Teaching, and Training** **Chair: Susanne Dau**	Room 2 **Stream B: Pedagogy** **Chair: Yongmei Bentley**	Room 3 **Stream C: ICT** **Chair: Sarah-May Mcvey**	
13:40	An Augmented Reality mobile learning experience based on treasure hunt serious game Mariella **Farella**, Davide **Taibi**, Marco **Arrigo**, Giovanni **Fulantelli** and Giuseppe **Chiazzese** and Giovanni **Todaro**, National Research Council of Italy - Institute for Educational	Comprehending Entrepreneurship Learning Through the lens of Innovative Teaching Pedagogy: India Vs Germany Sakshi **Chhabra** and Lubna **Ambreen**, Jain University, India	From Concept to Teaching Unit: Creating ICT-Supported Mathematics Teaching Units Based on Multicultural-Classroom-Aware Concepts Andreas **Ulovec**, University of Vienna, Vienna, Austria and Jarmila **Novotna**, Charles University, Czech Republic	
14:00	Experiences of two Runs of Digital Pre-courses in Mathematics for First-Year Students Lisa **Binkowski** and Tilo **Wendler**, HTW Berlin, Germany (Presentation only)	Enhancing Pedagogy to Andragogy in the Redesign of Teacher Training Courses on Programming Niklas **Humble** and Peter **Mozelious**, Mid Sweden University, Sweden	We Also Remain Active Online - Solving Global Waste Problems by Secondary School Students Zuzana **Pucherová**, Lucia **Szabová**, Imrich **Jakab**, Constantine the Philosopher University in Nitra, Slovak Republic	
14:20	Remote Learning: Students' Satisfaction and Perspectives in Higher Education Paulo **Alves**, Carlos **Morais**, Luisa **Miranda**, Maria **Pereira**, and Josiana **Vaz**, Instituto Politécnico de Bragança, Portugal	IT as a Career Choice for Girls: Breaking the (Self-Imposed) Glass Ceiling Birgy **Lorenz**, Kaido **Kikkas** and Tiia **Sõmer**, Tallinn University of Technology, Estonia	The Development of Critical Thinking Disposition Using two Online styles of Learning Minoru **Nakayama**, Tokyo Institute of Technology, Tokyo, Japan and Satoru **Kikuchi** and Hiroh **Yamamoto**, Shinshu University, Japan	
14:40	**Break**	**Break**	**Break**	**Break**

	Room 1 Stream A: Mini Track on Applying Innovative Applications Chair: Ayanda Pamella Deliwe	Room 2 Stream B: Video Chair: Joanna Rawska	Room 3 Stream C: The Arts Chair: Leo Hatvani	
15:00	The Fourth Industrial Revolution and Higher Education in Africa: A Systematic Review and Implications Ayanda Pamella **Deliwe**, Nelson Mandela University, Port Elizabeth, South Africa	Learning Analytics in Support of Video Corpus Construction and Exploration Davide **Taibi**, National Research Council of Italy - Institute of Educational Technology, Palermo, Italy	Art-Inspired Instructional Strategies in Online Education Nichole **Parker** and Beth **Perry**, Athabasa University, Canada (Academic, Main) EEL-002	
15:20	Inclusive Multimodal Designs in Language Classrooms: Three Empirical Studies Henrik **Kasch**, University College Of Southern Denmark, Esbjerg, Denmark	On-line learning for Addressing Challenges Associated to Business Models Ludmila **Walaszczyk**, Institute for Sustainable Technologies, Radom, Poland	Challenges in Educating Student Art Teachers in Technology Comprehension Mie **Buhl**, Aalborg University, Copenhagen and Kirsten **Skov**, University College Copenhagen, Denmark	
15:40	Improved Students' Intake and Better Conceptualization in a Flipped Classroom on-line Marie J. **Myers**, Queen's University, Kingston, Canada	Educational Videoblog as an Auxiliary Learning Resource: Opportunities and Limitations Dmitry **Rudenkin**, Ural Federal University, Yekaterinburg, Rusia	Creation of Interactive Educational Trail by Secondary Education Students Imrich Jakab, Lucia **Szabová**, Katarína **Skokanova**, Constantine the Philosopher University in Nitra, Slovak Republic and Jarmila **Čameková**, Secondary Vocational School of Gastronomy and Tourism, Slovak Republic	
16:00	The Micro-Credential Landscape 2021 Rory **McGreal**, Athabasca University, Edmonton, Canada (Presentation only)	Creative Audio-Visual Approaches Applied in Online and Hybrid Educational Designs Rikke **Ørngreen**, Heidi **Hautopp** and Birgitte **Henningsen**, Aalborg University, Copenhagen, Denmark	Using Arts-Based Instructional Strategies in Hybrid, Face-to-Face, and Online Nursing Courses Nichole **Parker**, Beth **Perry** and Margaret **Edwards**, Athabasca University,Athabasca, Canada and Katherine **Janzen**, Mount Royal University, Calgary, Canada	
16:20	*Room 1* *Networking in Small Groups to Catch up with Colleagues and build New Connections for Future Collaboration*			
17:00	**Close of Conference Day**	**Close of Conference Day**	**Close of Conference Day**	**Close of Conference Day**

Friday 29 October 2021

09:00	**Zoom Room 1 Opens**
09:30	**Room 1:** **Opening Messages:**
09:35	**Keynote Presentation: Prof Shawren Singh, The University of South Africa, South Africa** *Reflecting on Higher Education Examinations*
10:20	**Introduction to ECEL 2021**
10:30	*Conference Splits into Streams*

	Room 1 Stream A: Mini Track on Strategies for Online Learning Chair: Eleni Rossiou	Room 2 Stream B: Covid-19 Chair: Rikke Ørngreen	Room 3 Stream C: EL Issues Chair: Lisa Paleczek	Room 4 Stream D: e-Learning Tools Chair: Kelvin Wan
10:40	School Leadership Strategies Facilitate the Emerged Transition from f2f to Blended Learning Eleni **Rossiou** and Alexandra **Mavridou**, Experimental School of the University of Thessaloniki, Greece	Student Perception of Learning during On-Site and Online Internships Johan **Petersson**, Örebro University School of Business, Sweden	A Teaching-Learning Sequence on Programming and Digital Electronics Concepts for Primary School Germán **Ros**, Universidad de Alcalá, Guadalajara, Spain (Presentation only)	Effective Tools in e-Learning Olga **Reshetnikova**, Ural Federal University, Yekaterinburg, Russia
11:00	Building Organisational Capacity for Blended Learning: An Evidence-Based Approach Tim **Cappelli**, University of Huddersfield, UK and Alisdair **Smithies**, Imperial College London, UK	Students' asynchronous learning experience of MOOCs during Covid-19 pandemic in the UK Xiangping (Suzie) **Du** and Dozie **Ugbaja**, University of Hertfordshire, Hatfield, UK (Presentation Only)	The Changing Landscape of Digital Technologies for Learning Dagmar **Monett**, Claudia **Lemke**, Tom **Brandherm** and Gert **Faustmann**, Berlin School of Economics and Law, Germany and Amanda **Jefferies**, University of Hertfordshire, UK	Teaching Technology Toolkit (3T): An Online Interactive Guide for Faculty to Design Online Learning Strategy, Activity, Assessment and Selecting Appropriate Tools for an Engaging Learning Experience Fareeza Marican **Abu Backer Maricar**, Hasnain Zafar **Baloch**, Mohd Fadzil Zainal **Anuar** and Marliana Omar **Bakhi**, International Medical University, Kuala Lumpur, Malaysia (presentation only)
11:20	Going Online: Student Perspectives in a Problem-Based Learning Environment during the Pandemic Eskil **Andersen**, Hans **Huttel** and Dorina **Gnaur**, Aalborg University, Denmark	Social Presence in times of COVID-19 Distance Teaching Sonja **Gabriel**, KPH Vienna/Krems, Austria	The Concept of Qualitative Analysis of Students' Behaviour in Learning Analytics for the Wiki and e-Learning Courses Radim **Polasek**, University of Ostrava, Czech Republic	Exploring the Fit Between Learner Characteristics and Learning Environments Lee Yen **Chaw**, UCSI University, Malaysia and Tang Chun **Meng**, James Cook University Singapore, Singapore
11:40	Dilemmas in Designing e-Learning Experiences for Professionals Mobyen **Uddin**, Leo **Hatvani**, Ioanna **Aslanidou**, Jakob **Axelsson**, Shahina **Begum**, Anders **Olsson**, Sebastian **Schwede**, Carina **Sjödin**, Jan **Skvaril** and Valentina **Zaccaria**, Mälardalen University, Sweden	Media and Public Opinion about Online Learning During the Covid Pandemic: A Content Analysis of Newspaper Articles Chun Meng **Tang**, James Cook University Singapore and Lee Yen **Chaw**, UCSI University, Malaysia	Competency-Based Approach to Support e-Learning During the Covid-19 Situation Dina **Adinda**, University of Strasbourg, France	Analysis of the Curriculum of Secondary Technical Education based on the Reflection of ICT Competencies Josef **Malach**, Veronika **Švrčinová**, Dana **Vicherková** and Milan **Chmura**, University of Ostrava, Cech Republic
12:00	**Lunch**	**Lunch**	**Lunch**	**Lunch**

	Room 1 Stream A: Mini Track on Strategies for Online Learning Chair: Eleni Rossiou	Room 2 Stream B: Applied e-Learning Chair: Xiangping (Suzie) Du	Room 3 Stream C: Design Issues Chair: Sweta Patnaik	Room 4 Stream D: Poster Session Chair: Martin Steinicke
13:00	Distance Higher Education Learning Professional Pedagogy: Training the Trainers Maria **Fragkaki** and Stylianos **Mystakidis** University of Patras, Greece	Developing Training Materials for Entrepreneurial Skills: Identifying Processes, Principles and Core Skills Through Case Studies Yanqing **Duan**, Yongmei **Bentley** and Patricia **Wilson**, University of Bedfordshire, Luton, UK and Olena **Larmosh**, Simon Kuznets Kharkiv National University of Economics, Ukraine	Consistency is the key to survival: LMS Design Principles in an Online Lower Limb Anatomy Course Diane **Tyczynski** and Tobi **Mark**, The Michener Institute of Education at UHN, Canada	Exploring the most Effective Modality to Present Online Material to Language Students Renia **Lopez-Ozieblo**, The Hong Kong Polytechnic University, Hong Kong, Marta Nogueroles **Lopez**, Universidad de Alcala, Spain and Zeina **Alhmoud**, Universidad Antonio Nebrija, Spain EFL Reading Speed & Comprehension: Combining 3 e-learning Systems Takeshi **Okada**, Yasunobu **Sakamoto**, Tohoku Gakuin University, Sendai, Japan Takane **Yamaguchi**, Shumei University, Chiba, Japan Scratch Options! Using Programming to Approach Social-Emotionally Challenging Situations in Grade 4 Classrooms Lisa **Paleczek**, Katharina **Maitz** and Claudia **Danielowitz**, University of Graz, Austria and Maximilian **Husny**, TU Dresden, Germany The Review of Dyslexic Humanoid Robotics for Reinforcement Learning Sarah-May **Mcvey**, Esyin **Chew** and Fiona **Caroll**, Cardiff Metropolitan University, Wales North American University Writing Center Websites and International Student Support Shuyuan **Liu**, and Rubaiyat **Jabeen**, Queen's University, Kingston, Canada RegioDiff: Digitally fostering reading and regional competencies in Grade 4 students Lisa **Paleczek**, University of Graz, Austria, Katharina **Prinz**, Jessica **Berger**, Daniela **Ender** and David **Wohlhart**, Private University College of the Diocese Graz, Austria and Lorenz **Kern**, Wohlhart Lernsoftware, Graz, Austria Developing digital hygiene skills in the learning process: theory and practice Dmitry **Rudenkin**, Ural Federal University, Yekaterinburg, Russian Federation Implementation of Safe Exams and Assessments at University of Tehran under Covid-19 Saiedeh **Mansouri**, University of Tehran e-Learning and Knowledge Management Center, Iran
13:20	Student Perspectives on the Digital Learning Experience During Covid-19 Lockdown Rolando **Gonzalez**, Tomas **Sandnes** and Siri **Fagernes**, Kristiania University College, Norway	Peer Observation and Evaluation of Synchronous Online Tutorials Iain **Lambie** and Robert **Law**, Glasgow Caledonian University, UK	Connecting the Dots: Putting Instructional Design Theory to Practice in Online Courses Paula **Charbonneau-Gowdy**, Universidad Andres Bello, Santiago, Chile and Caro **Galdames**, Centro de Formacion CENCO, Chile	
13:40	Innovations in Synchronous Virtual Learning David **Weiss**, Weiss International Ltd, Toronto, Canada (Presentation Only)	Building Better Online Communities in the Post Pandemic World Wendy **Barber**, Robert **Harrison**, Roland **Van Oostveen**, Ontario Tech University, Oshawa, Elizabeth **Childs** Royal Roads University, Canada	Designing Online Rubrics for Consistency of Marking in Large STEM Classes John **Noll**, Joanna **Rawska** and Mariana **Lilley**, University of Hertfordshire, Hatfield, UK	
14:00	Learning Experience Design of Online Guidance Components Norman **Van Wyk** and Johan **Van Niekerk**, Noroff Education AS, Norway, Sue **Petratos**, Nelson Mandela University, South Africa	Onboarding Challenges in Online and Blended Courses: Reviewing Virtual Cross-Country Collaboration of Student Teams in Higher Education Leonore **Franz**, Elke **Mählitz-Galler** and Michael A. **Herzog**, Magdeburg-Stendal University of Applied Sciences, Germany	Speculative Design as a Method of Inquiry in an Online Workshop Setting Helene Husted **Hansen**, Sara Paasch **Knudsen** and Rikke **Ørngreen**, Aalborg University, Denmark	
14:20	Effectively Communication the Written Assignment Brief: Comprehensiveness and Conciseness Elaine **Walsh**, University of Limerick, Ireland	Reflecting on the Experience of Forced Transition to Distance Learning during the COVID-19 Pandemic Liudmila **Daineko**, Viola **Larionova**, Inna **Yurasova** and Natalia **Karavaeva**, Ural Federal University named after the first President of Russia B.N.Yeltsin, Russia	Approaching instrumental conflicts during an assessment activity in an interactive learning environment. Arnaud **Zeller** and Pascal , Faculty of Education and Lifelong Learning - LISEC, University of Strasbourg, France	
14:40	**Room 1** **Top 3 finalists in the Excellence Awards present their Case Histories**			
15:00	**Awards Ceremony** **Summary of the Conference**			
15:15	**Close of Conference**			