

15th European Conference on Games Based Learning - ECGBL 2021
23-24 September 2021 - A Virtual Conference Supported by The University of Brighton, UK
Conference runs to UK timings (GMT+1)

	Wednesday 22 September 2021			Passcode for all sessions is ECGBL21
09:00	Pre-Conference Workshop: Educational Escape Room Workshop (runs until 17:00)			
14:00	Using Embodied Methods in Designing STEM Learning Games (runs until 17:00)			Zoom Room 1: https://us02web.zoom.us/j/88942830847
09:00	Presentations for The 9th International Educational Games Competition (see separate programme - runs until 15:30)			Zoom Room 2: https://us02web.zoom.us/j/82759857094
	Thursday 23 September 2021			
08:30	Zoom Room Opens			Zoom Room 3: https://us06web.zoom.us/j/85404735990
09:00	Room 1: Welcome and Opening of the Conference			Zoom Room 4: https://us02web.zoom.us/j/86541582908
09:15	Keynote presentation: Pete Jenkins, CEO of Gamification+ Ltd <i>Seven Steps to Gamification Success</i>			Zoom Room 5: https://us02web.zoom.us/j/88175662175
10:00	Conference splits into streams			
	Room 1 Stream A - Mini Track on Dialogic Perspectives on Games and Learning Chair: Thorkild Hanghøj	Room 2 Stream B: Mini Track on Learning through educational game design. Chair - Charlotte Lærke Weitze	Room 3 Stream C - Virtual Reality Chair: Dominic Mahon	Room 4 Stream D: Serious Games Chair : Stefan Göbel
10:10	Digital Games, Dialogue and Learning: Exploring Research Perspectives Thorkild Hanghøj , Aalborg University, Copenhagen, Denmark, Kenneth Silseth and Hans Christian Arnseth , University of Oslo, Norway	Towards an Assessment Framework for Learner-Created Game Levels in Chemical Engineering Education Sílvia Fornós and Daniel Cermak-Sassenrath , IT University of Copenhagen, Denmark	Teaching History and Bringing the Past Back to Life with Serious Games Gavin Baxter , Thomas Hainey , Antea Savorelli , Umar Akhtar and Raica Ivanova , University of the West of Scotland, Paisley, UK	Investigating the Effects of Social Gameplay Elements in Gamifying Online Classes. Chin Ike Tan , Choon Yee Wong , Aidora Abdullah and Julian Eng Kim Lee , UOW, Selengor, Malaysia
10:30	Toward a Game-Based Dialogical Pedagogy: Insights from Massively Multiplayer Online Role-playing Games Shangjun Wang , Karlene Cousins , Florida International University, USA and Sojen Pradhan , University of Technology Sydney, Australia,	Developing Reading Skills in EFL Through Adaptive Game-based Learning Roger Gilbert , Sara Feijoo , Judit Serra , University of Barcelona, Spain	VR is very Relevant 4 Kids: Business Modeling for Virtual Reality in Healthcare Arian Merzaie , Ton Spil , University of Twente, Jasmijn Franke and Monique Tabak , Roessingh Research and Development, Netherlands	Learners' User Experience Assessment of a Serious Game for Social Innovation Education Antonia Schorer and Aristidis Protosaltis , Innovation in Learning Institute, Germany
10:50	The Joy of Rediscovering Chess: The Perspectives of Dialogic Thinking in Chess Malola Prasath Thittanimmattam Sundaramadhavan , Foundation for Learning Research in Chess, India, Luis Blasco de la Cruz , Astrid Barbier , Madrid Chess Academy, Sharon Whatley , Gibraltar Chess Association, Mustafa Megrahi , Atlantis Training and Consultancy, UK	Learning Through Educational Game Design: A Systematic Literature Review Charlotte Lærke Weitze , Digital & Creative Learning Lab, Helsingør, Denmark	End-user Development of Virtual Simulations for Task Training: A Literature Review Tina Helene Bunæs and Joakim Karlsen , Østfold University College, Norway	Serious Games Focussing on Migration: Which Political Messages do they Convey? Sonja Gabriel , KPH Vienna/Krems, Vienna, Austria
11:10	Learning about Learning by Making Board Games: Dialogical Perspectives from L1 Teacher Education Stina Thunberg , Caroline Graeske and Märtha Andersson , Luleå University of Technology, Sweden (Presentation Only)	Fighting Viruses Through Escape Room Design with Students Luca Botturi and Masiar Babazadeh , Scuola Universitaria Professionale della Svizzera Italiana, Switzerland	Insights from Design Processes Used in Developing Exergames Alexander Lund , Amalie Finnemann , Lars Elbaek and Maximus Kaos , South Denmark University, Denmark	Using Serious Games to Train Students and Assess Language Skills: The Case of Subtitle Legends José Ramón Calvo-Ferrer , José Belda-Medina and Miguel Tolosa Iguada , University of Alicante, Spain (Presentation Only)
11:30	Learning about Learning by Making Board Games: Dialogical perspectives from L1 teacher education Stina Thunberg , Caroline Graeske and Märtha Andersson , Luleå University of Technology, Sweden (Presentation Only)	You Can't Escape Learning, but Maybe you can get out of the Room! Game-based Learning for Programming Education Niklas Humble , Peter Mozelius and Lisa Sällvin , Mid Sweden University, Sweden	An Open Workshop Enabling Arts Students and Educators to Collaboratively Construct Multi-User Worlds Manthos Santorineos , Stavroula Zoi , and Konstantina Vetsiou , Athens School of Fine Arts, Greece	Towards a Quality Label for Educational Games and Serious Games Julian Conradt , Tobias Eckert , Polona Caserman , Marcel Schaub , Regina Bruder and Stefan Göbel , TU Darmstadt, Germany
11:50	Playing and Reflecting Games: The Production of Gamified Learning Artefacts in Teacher Education Daniel Handle-Pfeiffer and Christoph Winter , University of Vienna, Austria	Privacy Awareness by Co-Design: Investigating Reflection and Learning Qualities of Card-educational Game Creation Patrick Jost , Norwegian University of Science and Technology, Trondheim, Norway	Cumbraecraft: A Virtual Environment for Teaching Cultural Heritage to Primary Schoolchildren Kayeigh MacLeod , Andrew Reid , Iain Donald , Abertay University, Scotland and Kasia Smith , Millport Conservation Area Regeneration Scheme, UK	Development of an Instrument to Analyse Gameplay Features Promoting Complex Problem-Solving Conditions Dimitar Gyaurov , Andrea Bottino , Politecnico di Torino, Italy and Carlo Fabricatore , E.H.E. Europa Hochschule
12:10	Lunch Break	Lunch Break	Lunch Break	Lunch Break

	Room 1 Stream A: Movement and Board Games Chair: Alex Ball	Room 2 Stream B: Mini Track on Learning through educational game design. Chair - Charlotte Lærke Weitze	Room: 3 Stream C - GBL Issues Chair - Francesco Strada	Room: 4 Stream D - GBL Issues Chair - Gavin Baxter	Room 5 Stream E - PhD and Masters Colloquium Chairs - Cathy Grundy & Marcus Winter
13:00	Methods for Design 'with' Movement: A Systematic Literature Review Maximilian Hille , Nadia Boujari and Kristina Bilkova , Copenhagen Business School and Md Saifuddin Khalid , Technical University of Denmark, Denmark	Promoting Environmental Education with Escape Room Activities: Critical Factors for Implementation Gisela Mello , Jessica Reuter , Marta Ferreira Dias and Marlene Amorim , GOVCOPP, DEGEIT, University of Aveiro, Portugal	Some Killer Feedback: A Case Study on Volunteering as Playtesters and Player Typologies Joachim Majors and Matilda Ståhl , Abo Akademi University, Finland	Assessing Serious Games within Purchasing and Supply Management Education: An In-class Experiment Vincent Deike , Holger Schiele , University of Twente, Netherlands and Wolfgang Buchholz , Münster University of Applied Sciences, Germany	Improving a New Design Tool to Inform Serious Game Behaviour Change Interventions Karen Shanks , David Farrell , Mike Mannion , Julie Campbell and Karen Thomson , Glasgow Caledonian University, Scotland Didactic Planning of VR Alcohol Resistance Training Tool for Adolescents Patricia Lyk and Gunvar Majgaard , University of Southern Denmark, Odense, Denmark Exploring the Impact of Perspective-taking Game Design Techniques in a Different Context Henrique Gil , Mike Mannion , Caroline Parker and Romana Ramzan , Glasgow Caledonian University, UK Bridging Emotional Design and Serious Games: Towards Affective Learning Design Patterns Gabriel C. Natucci and Marcos Augusto Francisco Borges , University of Campinas, Limeira, Brazil
13:20	Computer Science Unplugged: Developing and Evaluating a "Traveling Salesperson Problem" Board Game Mareike Nutz and Luzia Leifheit , University of Tübingen, Germany	Design Considerations for Developing a Game-based Learning Resource for Cyber Security Education Chitra Balakrishna , Open University, Milton Keynes, UK	Gamification of the Middle Ages: Educational Dimension of the User Modifications of "Total War: Medieval II" Anton Sukhov , Ural Federal University named after the first President of Russia B. N. Yeltsin, Ekaterinburg, Russia	Can Digital Games Improve Critical Information Literacy? Sonja Gabriel , KPH Vienna/Krems, Austria	Teacher's Contemplation Towards Selecting and Evaluating Games for Classroom Mifrah Ahmad , Deakin University, Melbourne, Australia Single Player Digital Games: Hegemonical, Dialogical or Critical Agents in Identity Formation Mike Hyslop Graham , IT University of Copenhagen, Denmark
13:40	Designing an Educational Board Game "Story of Court" for Training Chinese Reading Comprehension: Analysis of Learning Effects, Flow, Acceptance and Anxiety Jyun-Yi Ji, Yu-Chi Chen and Chih-Chen Kuo and Huei-Tse Hou , National Taiwan University of Science and Technology, Taiwan	Ingrating Game-based Learning for Intercultural Skills Development in Higher Education Marta Fondo , Universitat Oberta de Catalunya, Barcelona and Pilar Gómez-Rey , Universidad Loyola Andalucia, Spain	Prototypical Implementation of an Applied Game with a Game-Based Learning Framework Ramona Srbecky , Manfred Krapf , Benjamin Wallenborn , Matthias Then and Matthias Hemmje , Fernuniversität Hagen, Germany	The Science Behind the Art of Engaging: Support in Games and Coding Bernadette Spieler , Zurich University of Teacher Education, Switzerland	Online Design Facilitation During COVID-19: Recommendations for Future Virtual Sports Innovation Camps Philip Wolfgang , Lærke Schjødt Rasmussen , Johannes Di Biao and Lars Elbæk , University of Southern Denmark, Denmark (Masters)
14:00	Development and Evaluation of an Educational Board Game "118 Job Bank" for Human Resource Training Courses Pei Ying Zuo , Ying Sang Fang and Chih-Chen Kuo , Hsin-Ta Lin and Huei-Tse Hou , National Taiwan University of Science and Technology, Taiwan	Supporting Teachers in Adopting Game-based Learning in Formal Education: A Systematic Literature Review Mohammad Assaf , Ton Spil and Guido Bruinsma , University of Twente, Netherlands	StreamIT! Towards an Educational Concept Centered Around Gameplay Video Production Natalie Denk , Thomas Wernbacher , Danube University Krems, Barbara Göbl , Suzanna Jovicic and Simone Kriglstein , University of Vienna, Austria	Realization of a Framework for Game-based Learning Units Using a Unity Environment Ramona Srbecky , Manfred Krapf , Matthias Then , Benjamin Wallenborn and Matthias Hemmje , Fernuniversität Hagen, Germany	
14:20	The Development and Preliminary Evaluation of a Chinese Painting and Calligraphy Board Game with Situated Learning Chih-Chen Kuo , Ying Sang Fang and Huei-Tse Hou , National Taiwan University of Science and Technology, Taiwan	Using Kahoot! to Enhance the Motivation of Undergraduate Tourism Students in Mathematics Classes: A Case Study Sónia Pais , Politécnico de Leiria and Andreia Hall , University of Aveiro, Portugal	Systematic Extension of a Simulation Game for Digitalised Production Henry Himmelstoß , Simon Rapp , Ozan Yesilyurt and Andreas Bildstein , Fraunhofer IPA, Stuttgart, Germany	Children's Metacognitive Comprehension of Video Games as Multimodal Texts Sam von Gillern , University of Missouri, Columbia, MO and Carolyn Stufft , Berry College, USA (Presentation Only)	
14:40	Break	Break	Break	Break	Break
	Room 1 Stream A: Design Issues Chair: Marco Gilardi	Room 2 Stream B: Mini Track on Learning through educational game design. Chair - Charlotte Lærke Weitze	Room 3 Stream C: Role Play Chair: Christos Malliarakis	Room 4 - Wellbeing Stream D: Chair: Anton Sukhov	Room 5 Stream E - PhD and Masters Colloquium Chairs - Cathy Grundy & Marcus Winter
15:00	A Skill Tree Method to Identify and Map In-game Skills to Out-of-game Contexts Per Backlund , Patrik Erlandsson and Jimmy Andersson , University of Skövde, Sweden	Run and Solve the Case! Case Studies With Game Based Learning Sandra Miranda Leal , Tecnológico de Monterrey, Morelia, México	Heutagogy as Narrative: Role-Playing Learning Design for Computer Science Teaching & Learning Lance Bunt , North-West University, Vanderbijlpark, South Africa	Application of the Octalysis Framework to Gamification Designs for the Elderly. Carolyn Gellner , Ilona Buchem and Jana Müller , Beuth University of Applied Sciences, Germany	"This is My Story": A Serious Game for Independent Living Skills in Special Education Stavros Tsikas and Stelios Xinogalos , University of Macedonia Using Game Based Learning Elements in Practice Enterprises for Entrepreneurial Education Mihaela Moca , University of Oradea, Romania
15:20	Comparing Design-Based and Agile Methodologies in Educational Game Development Osvaldo Jimenez , University of the Pacific, Stockton and Dennis Ramirez , Twin Cities PBS, USA	Room2Educ8: A Conceptual Framework for Designing Educational Escape Rooms Panagiotis Fotaris , University of Brighton, UK and Theodoros Mastoras , University of Macedonia, Greece (Presentation only)	Using Dilemmas to Make Important Decisions: Analysing Situations Based on the Covid Pandemic Daria Shalina , Natalia Stepanova , Viola Larionova , Ural Federal University, Russia, Azeddine Bouziane , University of Bechar, Algeria, Nana Incirveli , Tbilisi State Art Academy, Georgia and Ken Brown , Letterkenny Institute of Technology, Ireland	GBL for Psychological Intervention Related Skills: What Challenges? What Paths? Carla Sousa , Micaela Fonseca , Shivani Mansukla , Jéssica Carvalho , HEI-Lab, Lusófona University, Portugal	Identifying the Lack of Immersive Games in Higher Level Mathematics Game-based Learning Evgenia Anagnostopoulou , University of Sussex, Brighton, UK Teachers Designing Lessons with a Digital Sandbox Game: The Case of Minecraft Education Edition David Bar-EI , Northwestern University, Evanston, and Kathryn Ringland, University of California Santa Cruz, USA
15:40	Design-based Research on a Cooperative Educational VR Game about Ohm's Law Regina Frieß , Tamara Voigt , Florian Gnadlinger , Christoph Holtmann and Martin Steinicke , University of Applied Sciences Berlin (HTW Berlin), Germany	A Systematic Review of using Reflective Design Features in Game-based Learning: Anjuman Shaheen , Panagiotis Fotaris , Marcus Winter and Sanaz Fallahkhair , University of Brighton, UK	Integrating Learning Content into an Educational Game Narrative: An Empirical Investigation of Technical Factors Pratama Atmaja and Sugiarto Sugiarto , University of Pembangunan Nasional "Veteran" Jawa Timur, Indonesia	MountainQuest: Designing an Action/Adventure Game to Teach Children About Nutrition Dmitry Babichenko , Patrick Healy and Cynthia Danford , University of Pittsburgh, USA	Facing your Fears: Design of a VR Tool for Usage within Exposure Therapy for Patients with Social Anxiety Disorders Combined with Selected Game-based Elements
16:00	How Insights into Commercial Games can Improve the Design of Educational Games on Complex Societal Problems André Czauderna , Emmanuel Guardiola , TH Köln, Joelle-Denise Lux and Alexandra Budke , University of Cologne, Germany	So, Why DO Students Perform Better in Gamified Courses? Understanding Motivational Styles in Educational Gamification Jared Chapman , Utah Valley University, Orem, USA (Presentation Only)	"Face-to-face" or "sim-to-sim": Pro's and Con's Regarding Groupwork using a Games-based Environment Ole Jørgen Ranglund , Tone Vold , Synnøve Arntzen and Hanne Haave , Inland Norway University of Applied Sciences, Norway	Video Game Usage, Substance Abuse, and Sleep Among College Students Justin Asbee , Danica Slavish , University of North Texas, Daniel Taylor , Arizona State University and Jessica Dietch , Oregon State University, USA	Asge Frederik Matthiesen , Mærsk McKinney Møller Institute and Lasse Juel Larsen , Institut for Kulturvidenskab, Odense Denmark Interactive Storytelling Experience for Museums in the era of COVID-19 Saif Alatrash , Sylvester Arnab , Coventry University, UK and Kaja Antlej , Deakin University, Australia
16:20	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	Close of Conference

Friday 24 September 2021					
08:30	Zoom Room 1 Opens				
09:00	Room 1: Opening Messages				
09:05	Keynote Address: Diana Laurillard, Professor of Learning with Digital Technology at UCL Knowledge Lab, University College London <i>A Constructionist approach to games for conceptual change</i>				
09:50	Introduction to ECGBL 2022				
10:00	Conference splits into streams				
	Room 1 Stream A - Escape Rooms Chair: Rajiv Vaid Basaiawmoit	Room 2 Stream B - Mathematics Chair - Stavroula Zoi	Room 3 Stream C - Strategy and Learning Through Failure Chair: Antonia Schorer	Room 4 Stream D - Poster Session Chair - Panagiotis Fotaris	Room: 5 Stream E - GBL Issues Chair - Lars Elbaek
10:10	An Adaptation of the 'Escape Rooms' Methodology in Online Learning to Facilitate and Investigate Active Learner-led Activities and Experiences Sylvester Arnab , Emma Eyre , Mark Noon , Sarah Kernaghan-Andrews and Dominic Mahon , Coventry University, UK	Do Games Reduce Maths Anxiety? A Review of the Current Literature. Pierpaolo Dondio , Viacheslav Gusev , Mariana Rocha , TU Dublin and Flavia Santos , University College Dublin, Ireland	That Cute Creeper Just Blew Up My House: Lessons in Resilience in Minecraft Games Kim Balnaves , Murdoch University, Perth, Australia	"The Crucial Role of Participation in the Development of Game-based Learning Thea Nieland, Miriam Burfeind, Charlotte Urrea and Kai-Christoph Hamborg, Osnabrueck University, Germany" "Development and Assessment of A CardGame for Learning Ionic Compound Solubility Elaine Tsai and Steve Anderson, Taipei American School, Taiwan "	The Road to AI Literacy Education: From Pedagogical Needs to Tangible Game Design Marvin Zammit , Iro Voulgari , Antonios Liapis and Georgios Yannakakis , Institute of Digital Games, University of Malta
10:30	Enhancing Problem-solving Skills with Educational Escape Rooms: A Middle School Case Study Masiar Babazadeh and Manrico Francesco Frigerio , Scuola universitaria professionale della Svizzera italiana, Switzerland	XR Maths: Designing a Collaborative Extended Realities Lab for Teaching Mathematics Marco Gilardi , Thomas Hainey , Andisheh Bakhshi , Cristina Rodriguez and Alan Walker , University of the West of Scotland, Paisley, UK	BITINLine: A Serious Game to Enhance Business Information Technology and Strategy Alignment Luuk Collou , Saxion university of applied sciences, Enschede, Guido Bruinsma and Maria Iacob , University of Twente, Netherlands	"Schoolers & Scholars: A Project Focussing on RPG in Elementary Education Eduardo Nunes and Mário Cruz, InED - Escola Superior de Educação - Instituto Politécnico do Porto, Portugal"	Toward a Successful Badge Design in Gamified e-Learning: A Literature Review Adam Palmquist , Applied IT/University of Gothenburg, and Izabella Jedel , Insert Coin, Gothenburg, Sweden
10:50	Escape Room Experience for Team Building Through Gamification Using Deep Reinforcement Learning Aristotelis Lazaridis , Georgios Liapis , and Ioannis Vlahavas , Aristotle University of Thessaloniki, Greece	How to Model a Visual Novel Game to Train and Identify Players' Soft Skills? Jérôme Hernandez , Mathieu Muratet , Matthis Pierotti , LIP6/Sorbonne Université and Thibault Carron , Origamix-RH, Paris, France	Gamification of Strategic Thinking: A COTS Boardgame for Learning Scrum, Strategy Development and Strategy Implementation Thorsten Kodalle , The Bundeswehr Command and Staff College, Hamburg, Mark Schmidt , Hamburg University of Technology, Germany, Will Thomas , University of Suffolk, UK and Maren	"Digital Games for Acquiring Everyday Life Skills for Students with Intellectual Disabilities Kristian Stancin, Natasa Hoic-Bozic and Martina Holenko Dlab, University of Rijeka, Croatia" "A Serious Game to Anticipate Handwriting Difficulties Screening Through Visual Perception Assessment Chiara Piazzalunga, Linda Greta Dui, Simona Ferranti, Matteo Matteucci, Politecnico di Milano, Cristiano Termine and Marisa Bortolozzo, University of Insubria, Italy"	Towards the Mapping of Learning, Playful, and Frugal Aspects for Developing 21st Century Competencies and Resilience Sylvester Arnab , Dominic Mahon , Alex Masters , Luca Morini , Coventry University, UK, Jacey-Lynn Minoi and Fitri Mohamad , Universiti Malaysia, Sarawak, Malaysia
11:10	Smart Escape Rooms for Cultural Heritage: A Systematic Review Zoi Karageorgiou , Konstantinos Michalakis , Markos Konstantakis , Georgios Alexandridis and George Caridakis , University of the Aegean, Greece	Development of Mathematical Thinking Through Playing Video Games Mária Čujdiková and Peter Vankúš , Comenius University in Bratislava, Slovakia	Failures in Game-based Learning Experiences Sometimes Win Adriana Fogel , Daniela De Sousa , Patrícia Padrão , and José Origamix, University of Porto, Portugal	"Design of an Educational Game to Foster Self-regulated Learning Nathalie Zetzmann, Tim Moritz Böhm and Franziska Perels, Saarland University, Germany "	Universal Sprint Game that Teaches the Basics of Financial Literacy Ekaterina Kubina , Marina Bareicheva and Natalia Stepanova , Ural Federal University named after the First President of Russia B. N. Yeltsin, Russia
11:30	Can you Escape from Dr. Tom Cat's Lab? Educational Escape-rooms with Scientists, Riddles and Serious Games as Learning Tools Christos Malliarakis , University of Macedonia, Thessaloniki, Greece, Olga Shabalina , Volgograd State Technical University, Russia and Peter Mozelius , Mid Sweden University, Sweden	The Effect of Collaborative Gamification in the Student's Experience in a Mathematics Course David Antonio Buentello-Montoya , Tecnológico de Monterrey, Zapopan, México	Source Analysis of Wikipedia Articles about Indie Games with Educational Possibilities Jorge Oceja , Valencian International University, Valencia and Ángel Obregón Sierra , Universidad Isabel I, Spain	"Towards an Implementation of Escape-Room Games in an Educational Context Iris Groher, Barbara Sabitzer, Corinna Hörmann and Alexander Hofer, Johannes Kepler University Linz, Austria"	
11:50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break

	Room 1 Stream A - Mini Track on Measurement & Evaluation for Game-Based Learning Chair - Stina Thunberg	Room 2 Stream B Mobile Games Chair - Daniel Handle-Pfeiffer	Room 3 Stream C - Learnign through design Chair: Luzia Leifheit	Room 4 Stream D - Poster Session Chair - Panagiotis Fotaris
12:50	Game-Based Learning and Eye-Tracking: Approaches to Integrating Gaze data into Learning Assessment Maria Koutroumani and Maria Rigou , University of Patras, Greece	STEMadium: Learning STEM from a Mobile Game using the Science of Baseball Tamara Kuhn , dfusion and Jill Denner , ETR, Scotts Valley, CA, USA	Evolving and Improving a Board Game to Develop Business Acumen Suzaan Hughes , University of Johannesburg, South Africa	"Behaviour and Solution Patters in Chemical Engineering Education Game Log Data Chioma Udeozor, Fernando Russo Abegão and Jarka Glassey, Newcastle University, UK" "Introducing Gamification in Introductory Programming Courses Alexander Hofer and Iris Groher, Johannes Kepler University, Austria"
13:10	Paper-based vs. Digital Prototyping: How to Evaluate Serious Game Concepts at Different Stages of Development Cornelia Schade and Antonia Stagge , Technische Universität Dresden, Germany	Evidence of a Relationship Between Spatial Skills and Digital Puzzle Games Iolie Nicolaidou , George Chrysanthou , Marita Georgiou , Christos Savvides Stavriini Toulekki , Cyprus University of Technology, Cyprus	Game-based Learning Mobile-app for Teaching the Binary Numeral System Lee-Yeng Ong , Meng-Chew Leow and Chin-Keong Tan , Multimedia University, Malaysia	"Creating Gameful Experience in the Digital Era: A Double-Mediation Model Mona Höyng, University of Duisburg-Essen, Duisburg, Germany" "Gamifying Reading and Writing in Collaborative EFL Primary Education Marta Fortunato, António Moreira and Ana Raquel Simões, Universidade de Aveiro, Portugal "
13:30	Strategic Sustainability by Serious Gaming: A Case Study of STRASUS Ningna Xie and Raphael Heereman von Zuydtwyck , University of Applied Sciences Niederrhein, Germany/Maastricht University, Netherlands	Quick and Dirty Group Testing of a Mobile-app for Educators Teaching Digital Literacy and Production Gunver Majgaard , University of Southern Denmark, Odense, Denmark	The Virtual Reality Engineering Summer Camp: Promoting STEM Pathways Through Innovative Technology Fadi Castronovo , University of Brighton, UK, Bruce Simon , Institute for STEM Education at CSU East Bay, and Mario Flores , Mission College, USA (Presentation Only)	"Middle School Students' Political Interest, Efficacy and Commitment During Game Play Veronica Szczygiel , Fordham University, New York, USA " "Learning Glucose Metabolism Through "Sugar Scramble": A Digital Game-Based Approach Colleen Tang Poy, Stavroula Andreopoulos, Sian Patterson, Jodie Jenkinson and Derek Ng, University of Toronto, Canada"
13:50	Evaluating Game and Learning Mechanics Separately: A Practical Approach to Evidence-based Serious Game Development Anna Seidel , Franziska Weidle and Claudia Börner , Brandenburg University of Technology, Cottbus-Senftenberg, Germany	Cultural Dimension in User Experience - Mobile Games for Older Adults: A Case Study Ryann Deloso , Anja Poberznik , Sari Merilampi , Satakunta University of Applied Sciences (SAMK), Finland, Nuno Pombo and Bruno Silva , University of Beira Interior, Portugal	Training Indoor Navigation Skills: A Mobile Game for People with Intellectual Disabilities Inga Volosnikova , Olga Shabalina , Volgograd State Technical University, Aleksandr Davtian , Moscow Institute of Physics and Technology, Russia and David Moffat , Glasgow Caledonian University, UK	
14:00	Using Multimodal Learning Analytics to Explore Collaboration in a Sustainability Co-located Tabletop Game Maria Ximena Lopez , University of Huddersfield, UK, Carlo Fabricatore , E.H.E. Europa Hochschule EurAKA, Switzerland, Francesco Strada , and Andrea Bottino , Politecnico di Torino, Italy	"Dangerous Zone". Games Caught Between Education and Indoctrination Michal Kabát and Juraj Kovalčík , University of Ss. Cyril and Methodius in Trnava, Slovakia	Thinking Critically About Video Games: A Curriculum Construction Study Evgeniya Kuznetsova , Jennifer Jenson , and Danielle Kim , The University of British Columbia, Canada	
14:20	Room 1 Top games of The 9th International Educational Games Competition present their games to the participants			
14:45	Winners of The 9th International Educational Games Competition, Poster competition and best PhD Paper are presented			
15:00	Summary and Close of the Conference - Room 1 will stay open for casual discussion			