

	<div>16th European Conference on Games Based Learning</div> <div>ECGBL 2022</div> <div>6-7 October 2022</div> <div>Lusófona University, Campo Grande 376, 1749-024 Lisbon, Portugal</div> <div>Conference runs to UK timings (GMT+1)</div>			
	Wednesday 5 October 2022			
18:00-19:00	Pre-conference Registration and Drinks Reception Radisson Blu Hotel Lisbon, Av. Mal. Craveiro Lopes 390, Portugal			
	Thursday 6 October 2022			
08:30	Registration at Lusófona University and Room 1 opens			
09:00	Auditorium and Zoom Room 1 Welcome and Opening of the Conference			
09:15	Keynote presentation: Petros Lameris, Coventry University, UK Designing Serious Games through Research: A Relational Perspective			
10:00	Conference splits into Separate Physical and Virtual streams			
	Room A2.2 Stream A - Cybersecurity and Mathematics Chair : Micaela Fonseca PHYSICAL	Room A2.3 Stream B: Board Games and Lego Chair: Nashwa Ismail PHYSICAL	Room A2.4 Stream C - Literacy with Game Based Learning Chair: Thorkild Hanghøj PHYSICAL	Auditorium and Zoom Room 3 PhD Colloquium Chair: Conceição Costa PHYSICAL & VIRTUAL
10:20	Designing a Game to Promote Equity in Cybersecurity Anthony Pellicone, Diane Ketelhut, Ekta Shokeen, David Weintrop, Michel Cukier and Jandelyn Dawn Plane, University of Maryland, USA (P)	The Project Win Game™: A Serious Game for Project Management Simulation Gloria J. Miller and Victoria Vaca Núñez, Maxmetrics GmbH, Germany (P)	Automatic Calibration for a Mutual Insurance System in a Multi-Player Serious Game Mauro Scanagatta and Annapaola Marconi, Fondazione Bruno Kessler, Italy (P)	Climate Adaptation as an Economic Challenge: Finding Business Strategies by Game-based Learning Sophie Fischer University of Applied Sciences Würzburg-Schweinfurt (FHWS), Germany (P)
10:40	Using Game-based Learning Methods to Demystify Cyber Security Concepts for Adult Learners Chitra Balakrishna and Patricia Charlton Open University, Milton Keynes, UK	Is a Board Game Suitable for Teaching Complex Natural Systems? Yes Maris Morel, Triinu Jesmin and Jaanus Terasmaa, Tallinna Ülikool, Tallinn, Estonia (P)	Literacy Educators' Attitudes on Video Games and Learning Sam von Gillern and Hillary Gould, University of Missouri, Columbia, Brady Nash, Miami University and Carolyn	The Contribution of Game-based learning: Children with Autism Spectrum Disorder and Dyscalculia Vera Pradiante, Lusófona University/CICANT, Lisbon, Portugal (P)
11:00	From Graz to Lisbon: How far has the Creative Connections Learning Game Travelled and What has been its Impact? James Leinster and Michael Coffey, Nottingham Trent	Understanding the Elements of Challenge and Skills in Educational Games Madhuri Sasupilli and Prasad Bokil, Indian Institute of Technology, Bombay, India (P)	A Systematic Review of Video Game Research in Literacy Journals Sam von Gillern and Hillary Gould, University of Missouri, Columbia, USA (Presentation Only) (P)	Pedagogical Foundation to Promote Students' Engagement and Creativity While Co-creating a Music Learning Game Astrid Patricia Marin Jimenez and Francis Dube, University Laval, Canada (P)
11:20	Seven Spells and Peer Tutoring: a Collaborative Mathematics Game Experience André Almo, Mariana Rocha and Pierpaolo Dondio, Technological University Dublin, Attracta Brennan, National University of Ireland Galway (P)	A Custom-Made Board Game to Familiarise Primary School Children With Atoms Michael Dumin and Ilse Smets, KU Leuven, Belgium, Daniel Cermak-Sassenrath, IT University Copenhagen, Denmark, Carole Haeusler, University of Southern Queensland, Australia (P)	Inclusive AR-games for Education of Deaf Children - Challenges and Opportunities Thomas Westin, Stockholm University, Stockholm, José Neves and Carla Sousa, Lusofona University, Portugal, Peter Mozelius, Mid Sweden University, Sweden and Lara Mantovan, Ca' Foscari University of Venice, Italy (P)	Wealth Creation: Serious Game Development to Improve Financial Literacy for High School Students Kittiphan Wiboonsin and Wandee Kasemsukpipat, Kasetsart University, Thailand (P)
11:40	Using Mathematics Game-based Intervention on Children with Special Educational Needs: Preliminary Findings Lilia Marcelino, Conceição Costa and Carlos Santos, ISEL-IPL & CEMAPRE-University of Lisbon (P)	Dark Pattern: A Serious Game for Learning About the Dangers of Sharing Data Ingvar Tjostheim, Norwegian Computing Center, Oslo, Vanessa Ayres-Pereira, UiO, Norway, Angela Manna Chris Wales, University of Bergen, and Simon Egenfeldt-Nielsen, Serious Games Interactive, Denmark (P)	Investigating Social Media Potential for Supporting Teachers' Digital Games Literacy Melinda Mathe, Harko Verhagen and Mats Wiklund Stockholm University, Sweden (P)	Modeling core Personality Traits Behaviors in a Serious Gamified Escape Room Environment Georgios Liapis, Katerina Zacharia and Ioannis Vlahavas, Aristotle University of Thessaloniki, Greece (V)
12:00	A Digital Learning Gaming for Mathematics that Leads to Better Learning Outcomes for Female Students: Further Evidence Bruce McLaren, Huy Nguyen, Michael Mogessie, Carnegie Mellon University, Pittsburgh, Elizabeth Richey, University of Pittsburgh, USA (P)	Training team Creativity with Lego Serious Play: Upside and Downside of team Diversity Frans Stel and Peter Van den Berg, University of Twente, Netherlands (P)	Pre-service Teachers' Player Types and Their Relation to Self-efficacy With Digital Media Nathalie Barz, Pauline Arndt, Laura Dörrenbächer-Ulrich, Manuela Benick and Franziska Perels, Saarland University, Saarbrücken, Germany (P)	NanoDoc: Designing an adaptive serious game for programming with working examples support Pavlos Toukiloglou and Stelios Xinogalos, University of Macedonia, Greece (V)
12:20	Lunch Break	Lunch Break	Lunch Break	Lunch Break

	<b>Room: A2.2</b> <b>Stream A - Mini Track on Games Promoting Critical Thinking, Scientific Communication and Literacy in STEM</b> <b>Chair : Lars Elbæk</b>	<b>Room: A2.3</b> <b>Stream B: Teaching, Learning and Design</b> <b>Chair: Frans Stel</b>	<b>Room: A2.4 &amp; Zoom Room 4</b> <b>International Educational Games Competition</b> <b>Finished Games</b> <b>Judges: Ton Spil and Guido Bruinsma</b>	<b>Room: A2.5 &amp; Zoom Room 3</b> <b>International Educational Games Competition</b> <b>Games in Development</b> <b>Judges: Rajiv Basaiawmoit and Nuno Fachada</b>	<b>Room: A2.8 &amp; Zoom Room 5</b> <b>International Educational Games Competition</b> <b>Student Games</b> <b>Judges: Luuk Collou and Benadette Spieler</b>
<b>13:20</b>	Missions with Monty: A Game-Based Learning Environment to Promote Comprehension Monitoring and Science Achievement Rayne <b>Sperling</b> , Taylor <b>Young</b> Pennsylvania State University, John <b>Nietfeld</b> , Samira <b>Syal</b> , North Carolina State University, Raleigh, USA (P)	Games for Teaching and Learning History: A Systematic Literature Review Jorge <b>Oceja</b> and David <b>Abián</b> , Universidad de Cantabria, Spain and Marina Torres <b>Trimállez</b> , Katholieke Universiteit Leuven, Belgium (P)	<i>Please see separate programme</i>		
<b>13:40</b>	A Game-based Approach for Open Data in Education: A Systematic Mapping Review Alejandra Celis <b>Vargas</b> and Rikke <b>Magnussen</b> , Aalborg University, Denmark (P)	Game-based Education Promotes Sustainable Water Use Roberto <b>Di Paolo</b> , Ennio <b>Bilancini</b> , IMT School for Advanced Studies Lucca and Leonardo <b>Boncinelli</b> , University of Florence, Italy (Presentation Only) (P)			
<b>14:00</b>	Treasure Hunt as a Method of Learning Mathematics Vedrana Mikulić <b>Crnković</b> , Ivona <b>Traunkar</b> and Bojan <b>Crnković</b> , University of Rijeka, Croatia (P)	Why are you Making us Play this Scary Game? Ingrid Elise <b>Hamm</b> , Nordahl Grieg Upper Secondary School, Bergen, Norway (Presentation Only) (P)			
<b>14:20</b>	Cultural and Philosophical Understandings of GBL in STEM Subjects Julio <b>Garay</b> , University of New York, USA (Presentation Only) (P)	Player Perceptions of Informal Learning in Non-educational Games Tanja <b>Välisalo</b> , Jukka <b>Vahlo</b> and Kai <b>Tuuri</b> , University of Jyväskylä, Finland (P)			
<b>14:40</b>	Gamification for the Development of Competencies in Tec21 Based on Mixed Reality Claudia Lizbeth Salas <b>Rivas</b> , Hugo Kenji Fukumura <b>Perez</b> , Luis Javier Morales <b>Rivas</b> and Carlos Alberto González <b>Almaguer</b> , Tecnológico de Monterrey, México (P)	The Challenges of Designing Learning Games: Interviewing Professional Learning game Designers Thorkild <b>Hanghøj</b> and Stine <b>Ejsing-Duun</b> Aalborg University, Copenhagen, Denmark, Sara <b>Hajslund</b> , Serious Games Interactive, Denmark (P)			
<b>15:00</b>	Narrative Games in BioAnalytic Forensics Michael <b>Cosgrave</b> , Eric <b>Moore</b> and Athene <b>Storey-Cosgrave</b> , University College Cork, Ireland (P)	Learning music through play: a pedagogical approach to foster learners' creativity Francis <b>Dubé</b> and Astrid Patricia Marin <b>Jimenez</b> , Université Laval, Canada (Presentation Only) (P)			
<b>15:20</b>	<i>Break</i>	<i>Break</i>	<i>Break</i>	<i>Break</i>	<i>Break</i>
	<b>Room: A2.2</b> <b>Stream A - GBL Issues</b> <b>Chair : Chitra Balakrishna</b>	<b>Room: A2.3</b> <b>Stream B: Mini track on Educational Escape Rooms</b> <b>Chair Panagiotis Fotaris</b>	<b>Room: A2.4 and Zoom Room 4</b> <b>International Educational Games Competition</b> <b>Finished Games</b> <b>Judges: Ton Spil and Guido Bruinsma</b>	<b>Room: A2.5 and Zoom Room 3</b> <b>International Educational Games Competition</b> <b>Games in Development</b> <b>Judges: Rajiv Basaiawmoit and Nuno Fachada</b>	<b>Room: A2.8 and Zoom Room 5</b> <b>International Educational Games Competition</b> <b>Student Games</b> <b>Judges: Luuk Collou and Benadette Spieler</b>
<b>15:40</b>	How to Welcome First-year Students: Best Practice of a Gamified Orientation Day Lize <b>Vanderstraeten</b> , Fanny <b>Buysschaert</b> , Viktor <b>De Mulder</b> , Delphine <b>François</b> , Laure <b>Janssens</b> , Ann <b>Maes</b> , Grégory <b>Maes</b> , Elke <b>Minnaert</b> and Evelien <b>Opdecam</b> Ghent University, Belgium (P)	Conquer Business Administration: An escape Room Concept for Volatile Times Sandra <b>Mühlböck</b> , FH OÖ Studienbetriebs GmbH, Wels, Austria (Presentation Only) (P)	<i>Please see separate programme</i>		
<b>16:00</b>	Developing an Evaluation Framework for Analysing Educational Simulation Games Souad <b>Slyman</b> , University of Roehampton, Marco <b>Gillies</b> and Vally <b>Lytra</b> , Goldsmiths, University of London, UK (P)	Let's Jazz: A Case Study on Teaching Music with Educational Escape Rooms Masiar <b>Babazadeh</b> , Luca <b>Botturi</b> and Giacomo <b>Reggiani</b> , SUPSI, Switzerland (P)			
<b>16:20</b>	Exploring the Combination of Point-of-view and Tenses in Movement-based Design Processes Søren <b>Lekbo</b> and Lars <b>Elbæk</b> , University of Southern Denmark, Denmark (P)	Digital Escape Games in Educational Programs for Financial Literacy Matteo <b>Bisanti</b> , Roberto <b>Di Paolo</b> , Sebastiano <b>Accardi</b> , Emiliano <b>Ricciardi</b> , Ennio <b>Bilancini</b> and Veronica <b>Pizziol</b> , IMT School for Advanced Studies Lucca, Francesca <b>Maggi</b> , Giovanna <b>Paladino</b> Intesa Sanpaolo, Turin, Italy (P)			
<b>16:40</b>	Climate4Kids: A Gamified App Teaching about Climate Change Sonja <b>Gabriel</b> , KPH Vienna/Krems and Bernhard <b>Schmölzer</b> , PH Kärnten, Austria (P/V)	Room2Educ8: A Conceptual Framework for Designing Educational Escape Rooms Panagiotis <b>Fotaris</b> , University of Brighton, UK and Theodoros <b>Mastoras</b> , University of Macedonia, Greece (P)			
<b>17:00</b>	Systems Mapping to Support Interdisciplinary Understanding in Serious Game Design Lorena <b>Müller</b> , Ulrike <b>Spierling</b> , , Angela <b>Merkle</b> and Regina-Maria <b>Dackweiler</b> , Hochschule RheinMain, Germany (P/V)	Adapting Educational Activities to Individual Students' Needs Through an Educational Escape Rooms Customization Diana <b>Sousa</b> , António <b>Coelho</b> , Manuel Firmino <b>Torres</b> and Ana Rita <b>Garcia</b> , FEUP/INESC TEC, Portugal (P)			
<b>17:20</b>	<i>Close of Conference Day</i>	<i>Close of Conference Day</i>	<i>Close of Conference Day</i>	<i>Close of Conference Day</i>	<i>Close of Conference Day</i>
<b>19:30</b>	Conference Dinner - Casa do Alentejo (Portas de Santo Antão Street, 58 1150-268 Lisbon)				

	<b>Friday 7 October 2022</b>		
09:00	<b>Auditorium and Zoom Room 1</b> <b>Opening Messages</b>		
09:05	<b>Keynote Address: Patrícia Gouveia, Lisbon University Fine Arts Faculty - ITI/LARSys * FBAUL, Portugal</b> <b>Eco-Gaming: How Feminism and Play are Key to Changing the World</b>		
09:50	<b>Introduction to ECGBL 2023</b>		
10:00	<b>Refreshments, poster presentations and presentation of games to participants in Lisbon</b> <b>Break for Virtual Participants</b>		
11:00	<b>Conference splits into streams</b>		
	<b>Room: A2.2</b> <b>Stream A - Simulation</b> <b>Chair: Mauro Scanagatta</b>	<b>Room: A2.3</b> <b>Stream B: Gamification</b> <b>Chair: Tone Vold</b>	<b>Room: A2.4</b> <b>Stream C - Mini Track on GBL to Support Well-being and Physical and Mental Health</b> <b>Chair: Carla Sousa</b>
11:10	Evaluation of Empirically Collected Feedback from a Simulation Game for Digitalised Production Ozan <b>Yesilyurt</b> , Henry <b>Himmelstoß</b> and Andreas <b>Bildstein</b> , Fraunhofer Institute for Manufacturing Engineering and Automation IPA, Germany (P)	Designing a Mobile Game for Introducing Learners to a Soap Making process Jessica Dominguez <b>Alfaro</b> , Serkan <b>Solmaz</b> , KU Leuven, Belgium, Chioma <b>Udeozor</b> , Newcastle University, Newcastle upon Tyne, UK and Daniel <b>Cermak-Sassenrath</b> , IT University, Denmark (P)	Playing with Play Moods in Movement-based Design Rasmus Vestergaard <b>Andersen</b> and Lars <b>Elbaek</b> , University of Southern Denmark, Denmark (P)
11:30	Playing for Privacy Awareness: Learning from a "Wow-Moment" with iBuddy Felipe <b>Cardoso</b> , Davide <b>Andreoletti</b> , Alessandro <b>Ferrari</b> , Silvia <b>Giordano</b> , DTI, Scuola universitaria professionale della Svizzera italiana, Lugano, Luca <b>Botturi</b> , Tiffany <b>Fioroni</b> , Chiara <b>Beretta</b> , DFA, Scuola universitaria professionale della Svizzera italiana, Locarno, Anna <b>Picco-Schwendener</b> , Suzanna <b>Marazza</b> , Università della Svizzera italiana, Lugano, Switzerland (P)	Is it Worth it? Possibilities of Interactive Gamification Platforms Within a Learning Setting Zaryab <b>Chaudhry</b> , Larissa <b>Barth</b> and Sophie <b>Foster</b> , Bauhaus Universität, Weimar, Germany (Presentation Only) (P)	Structuring Movement-based Creativity in Designing for Sport and Physical Activity Lars <b>Elbæk</b> , Søren <b>Lekbo</b> and Rasmus Vestergaard <b>Andersen</b> , University of Southern Denmark, Denmark (P)
11:50	Marie's ChemLab: A Mobile Augmented Reality Game to Teach Basic Chemistry to Children Michaela <b>Arztmann</b> and Johan <b>Jeuring</b> , Utrecht University, Netherlands, Jessica Lizeth <b>Dominguez Alfaro</b> , Peter <b>van Puyvelde</b> , KU Leuven, Belgium, Jonas <b>Blattgerste</b> , University of Applied Sciences Emden/Leer, Germany (P)	Diversifying the Uses of Games to Engage Young Musicians in their Learning Francis <b>Dubé</b> and Astrid Patricia Marin <b>Jimenez</b> , Université Laval, Canada (Presentation Only) (P)	Recent Developments Regarding Exergames and Individuals with Disabilities Charikleia <b>Patsi</b> and Christina <b>Evaggelinou</b> , Aristotle University of Thessaloniki, Greece (P)
12:10	Game-Based Learning to Engage Students with Applied Statistics Using a Simulation Role-Play Game Souad <b>Slyman</b> , University of Roehampton, London, UK (Presentation Only) (P)	Pure Gamification: An Energy Case Ton <b>Spil</b> , Laura van der <b>Neut</b> and Robby van <b>Delden</b> , University of <b>Twente</b> , Netherlands	Students' Experience in learning Sex Education Through Digital Games-Based Learning in Thai Secondary Schools Nashwa <b>Ismail</b> , Durham University, UK On-Anong <b>Thammajinda</b> and Chaeye <b>Kanyapat</b> , Payap University, Thailand (P)
12:30	<b>Lunch Break</b>	<b>Lunch Break</b>	<b>Lunch Break</b>
	<b>Room: A2.2</b> <b>Stream A - Business games</b> <b>Chair:</b>	<b>Room: A2.3</b> <b>Stream B: Machine Learning, AR &amp; STEM</b> <b>Chair: Michael Cosgrave</b>	
13:30	Design Considerations for a Serious Game on using HR to Shape Employee Behavior for the Digital Transformation Luuk <b>Collou</b> , University of Applied Sciences, Enschede and Guido <b>Bruinsma</b> , University Twente, Enschede, The Netherlands (P)	Can We Detect Non-playable Characters' Personalities Using Machine and Deep Learning Approaches? Jérôme <b>Hernandez</b> , Mathieu <b>Muratet</b> and Thibault <b>Carron</b> , Sorbonne Université, Matthis Pierotti, Origamix-RH, Paris, France (P)	
13:50	Gameful Experience in Short: A Short Scale for Business Simulation Games Angelika <b>Lau</b> , University of Duisburg-Essen, Duisburg, Germany (Presentation Only) (P)	ARtales: AR mobile application using transformative learning through aesthetic experience: First Evaluation Sissy <b>Barakari</b> , Ionian University, Athens, Greece and Aristotelis <b>Skamagkis</b> , AKTO Art & Design College, Greece (P)	
14:10	Unlock Financial Knowledge in Managers Through Games Jéssica <b>Reuter</b> , Marta <b>Ferreira Dias</b> , Universidade de Aveiro, Portugal, Maria Jose <b>Sousa</b> , Instituto Universitário de Lisboa, Portugal and Ryad <b>Soobhany</b> , Amjed <b>Hendi</b> Heriot-Watt University, UAE (P)	Digital Games in Schools: A Qualitative Study on Teacher's Beliefs Benadette <b>Spieler</b> and Adrian <b>Degonda</b> , Zurich University of Teacher Education, Switzerland (P)	
14:30	<b>Auditorium and Zoom Room 1</b> <b>Top games of The 10th International Educational Games Competition present their games to the participants</b>		
15:00	<b>Winners of The 10th International Educational Games Competition, Best Poster and PhD Paper are Awarded</b>		
15:15	<b>Summary and Close of the Conference</b>		

	<b>Posters will be Presented at the Coffee Break at 10:00 on Friday</b> <b>A prize will be awarded to the conference participants' favourite poster</b>	
	<b>Posters with a WIP Paper</b>	
	The Design of a Gamified App for Supporting Undergraduates' Resilience Iolie <b>Nicolaidou</b> and Loizos <b>Aristeidis</b> , Cyprus University of Technology, Cyprus (WIP) (P)	War Game as a Method of Training - As a Method of Analysis Ondřej <b>Pekař</b> , Ladislav <b>Potužák</b> , Vlastimil <b>Šlouf</b> and Tomáš <b>Havlik</b> , University of Defence, Czech republic (WIP) (P)
	Wargaming Simulator MASA SWORD for Training and Education of Czech Army Officers Tomáš <b>Havlik</b> , Martin <b>Blaha</b> , Ladislav <b>Potužák</b> and Ondřej <b>Pekař</b> , University of Defence, Czech republic (P)	
	<b>Posters only</b>	
	The Effect of Digital Game-based Learning on Different Learning Outcomes: A Meta-analysis Nathalie <b>Barz</b> , Laura <b>Dörrenbacher-Ulrich</b> , Manuela <b>Benick</b> and Franziska <b>Perels</b> , Saarland University, Germany (Poster Only) (P)	From In-person to In-game: Turning Informal Learning Experiences into Game-based Learning Anthony <b>Pellicone</b> , Diane <b>Ketelhut</b> , Jandelyn <b>Plane</b> and Michel <b>Cukier</b> , University of Maryland, USA (Poster Only) (P)
	Playtesting in the Classroom: A Case Study on Combining UX Principles with Ethnographic Video Research Methods Matilda <b>Ståhl</b> and Joachim <b>Majors</b> , Experience Lab, Åbo Akademi University, Finland (Poster Only) (P)	Teacher Views on Game Jamming in General Formal Education Riikka <b>Aurava</b> , Tampere University, Finland (Poster Only) (P)
	eSports: The new "white boys" Club? Problematising the Norms Limiting Diversity and Inclusion in an Educational Gaming Context Fredrik <b>Rusk</b> and Matilda <b>Ståhl</b> , Åbo Akademi University, Finland (Poster Only) (P)	Assessment of Mathematical Subcompetences of CBC/ABN Students Through Educational Gamification José Carlos <b>Piñero Charlo</b> , Rocío Noriega <b>Bustelo</b> , María del Carmen <b>Canto Lopez</b> and José Ignacio Navarro <b>Guzmán</b> , University of Cadiz, Spain (Poster Only) (P)
	Using an Outdoor Quiz Game to Support Student Socialization and Learning Tone <b>Vold</b> , Inland Norway University of Applied Sciences, Rena, Norge (poster only) (P)	Learning Energy Efficient Games Development with Award Winning Energy Efficient Assembly Code Philip <b>Bourke</b> , South East Technology University, Carlow, Ireland (P)