

R GALA Conference 2020 0 G R 9 - 10 December 2020, LAVAL



The 9th Games and Learning Alliance (GALA) Conference is organized by the Serious Games Society (SGS) and the Le Mans University, and more specifically the researchers of this it's IUT (Institut Universitaire Technique) technical school situated in the city of Laval, France. Due to the COVID19 crisis, the conference is exceptionally held online, in the Laval Virtual World.

The GALA series of conferences provide an excellent opportunity to foster the discussion of relevant topics in the growing field of serious games. The conference is a venue for academic researchers, industrial developers, teachers, and corporate decision-makers to meet and exchange experiences and knowledge in this multidisciplinary and challenging area.

In 2020, the GALA conference received 77 submissions from 24 countries. The majority of authors are based in Europe (70%), including 17% of French authors, but North America and Canada (18%) are also quite well represented in the submissions for this online edition. On average, papers received 2.7 reviews from Program Committee members: 35 of these papers were selected for presentation at the conference (hence a 45% acceptance rate) and 10 papers for presentation at a poster session of the conference.

The conference features seven sessions of paper presentations, and topics ranged from serious game design practices, studies on engagement, learning, and usability of serious games, as well as virtual reality, mixed reality, storytelling, creativity and awareness.

Serious Game Competition

This year, the conference includes a Serious Game competition with a special focus on Innovative Human-Computer Interactions for learning. We received 30 submissions. With the help of a panel of experts, one serious game will be awarded in each of the following categories: business, academic and student during the award ceremony on the 10th of December.

Exhibition

As every year, one of the highlights of the conference is the exhibition session. This year, it is hosted in the virtual Exhibition Hall of the Laval Virtual World. The exhibition is open to the general public and featured more than 30 games developed by European institutions and students as well as a selection of Virtual Reality and Mixed Reality tools developed by local industries.

As in previous years, the best papers of the GALA conference will be published in a dedicated special issue of the International Journal of Serious Games, the scientific journal managed by the Serious Games Society, which is a great reference point for academicians and practitioners to publish original research work on serious games and be informed about the latest developments in the field.

We thank the authors for submitting many interesting, field-advancing papers, the Program Committee for reviewing these papers, and the SGS and Le Mans University for organizing the conference.

ORGANIZERS



















ORGANIZERS

GENERAL CHAIR

Iza Marfisi Schottman (Le Mans university, France)

PROGRAM CHAIRS

Francesco Bellotti (University of Genoa, Italia) **Ludovic Hamon** (Le Mans university, France) Roland Klemke (Open Universiteit Nederland, Netherlands)

EXHIBITION CHAIR

Pierre Laforcade (Le Mans university, France)

TUTORIALS & KEYNOTES CHAIR

Jannicke Baalsrud Hauge (BIBA, Germany/ KTH, Sweden)

COMPETITION CHAIR

Aous Karoui (University of Grenoble, France)

PUBLICATION CHAIR

Riccardo Berta (University of Genoa, Italia)

COMMUNICATION & PROMOTION CHAIR

Mathieu Vermeulen (IMT, University of Lille, France)

ADMINISTRATIVE & FINANCIAL CHAIR

Francesco Bellotti (University of Genoa, Italia)

LOCAL ARRANGEMENTS CHAIR AND SUPPORT

Aicha Bakki (Le Mans University, France)

Floorje De Vink (Laval Mayenne Technopole, France)

Claire Duquesnoy (ZOOM Science Center of Laval, France)

Laurent Foucher (ISFEC Bretagne, France

Gaëlle Guigon (IMT, University of Lille, France)

Sébastien George (Le Mans University, France)

Lachen Oubahssi (Le Mans University, France)

Wielfrid Morie (Institut Nat. Ploytect, Cête d'Ivoire)

Laura Nugre (Laval Mayenne Technopole, France)

Cathy Pons Lelardeeux (INU Champollion, France)

PROGRAM COMMITEE

- Adam Mayes (Uppsala University)
- Aida Azadegan (University of Reading)
- Alessandra Antonaci (Welten Institute Research Centre for Learning, Teaching and Technology, Open University of the Netherlands)
- Alessandro De Gloria (Università di Genova)
- Amel Yessad (Sorbonne University)

- André Czauderna (Cologne Game Lab, TH Köln)
 Angeliki Antoniou (University of Peloponnese)
 Avo Schönbohm (Berlin School of Economics and Law)
- **Bibeg Limbu** (Open University of the Netherlands & TU Delft)
- Carolina A. Islas Sedano (Ubium Oy)
- Cathy Pons Lelardeux (Champollion National University Institute)
- Christos Sintoris (Human Computer Interaction Group, Electrical and Computer Engineering Department)
- Davide Parmigiani (University of Genova (Italy))
- **Dimitris Grammenos** (FORTH-ICS)
- Dirk Ifenthaler (University of Mannheim)
 Emmanuel Guardiola (Cologne Game Lab, TH Köln)
- Erik Van Der Spek (Eindhoven University of Technology)

- Frank Dignum (Utrecht University)
 George Lepouras (University of Peloponnese)
 Georgios Fesakis (University of Aegean)
 Georgios Kritikos (University of the Aegean)
 Giuseppe Città (Consiglio Nazionale delle Ricerche (CNR)
- Instituto per le Tecnologie Didattiche di Palermo)
- Heide Lukosch (Delft University of Technology)
 Heinrich Söbke (Bauhaus-Universität Weimar)
 Herre Van Oostendorp (Utrecht University)
- Hugo Barbosa (Lusofona University of Porto)

- Ioana Andreea Stefan (Advanced Technology Systems)
 Ioanna Lykourentzou (Utrecht University)
- Ion Roceanu (National Defence University)
- Jan Dirk Fijnheer (Utrecht University) Jannicke Baalsrud Hauge (BIBA, Germany/ KTH, Sweden)
- Jean-Marc Labat (Sorbonne university)
 Jeffrey Earp (ITD-CNR)
 Joao Dias (INESC-ID)

- Josef Wolfartsberger (University of Applied Sciences Upper
- Julian Alvarez (Ludoscience)
- Katerina Mania (Technical University of Crete)

- Khaleel Asyraaf (Open University of the Netherlands)
 Kostas Karpouzis (National Technical University of Athens)
 Krassen Stefanov (Faculty of Math & Informatics, Sofia University "St. KI. Ohridasii")

 Kusta Debatista (The University of Math & Informatics)
- Kurt Debattista (The University of Warwick)
- Lahcen Oubahssi (Le Mans university)
- Laura Freina (National Research Council (CNR))
- Lucia Pannese (Imaginary)
 Luis Miguel Encarnacao (Innovation by Design Intl. Consul-• Maira B. Carvalho (Hrvatski Telekom d.d.)
 • National Research Coun
- Manuel Gentile (National Research Council of Italy)
 Manuel Minaus (University of Innsbruck)

- Manuel Mindus (University of Innsbruck)
 Margarida Romero (Laboratoire d'Innovation et Numérique pour l'Education. Université de Nice Sophia Antipolis)
 Maria Popescu (Carol I National Defence University)
 Maria Tsourma (Information Technologies Institute, Centre for Research and Technology Hellas (CERTH))
 Mario Allegra (Italian National Research Council ITD)
 Marius Preda (Institut TELECOM)
 Mathieu Muratet (Sorboppe University)

- Mathieu Muratet (Sorbonne university)

- Matthias Teine (University Paderborn)
 Michael Derntl (University of Tübingen)
 Michael Michael Michael (CNR) in Graz University of Technology)
- Michela Mortara (CNR imati Ge)
- Nour El Mawas (University of Lille)
- Olivier Rampnoux (University of Poitiers)
 Panote Siriaraya (Delft University of Technology)
- Pauliina Tuomi (Tampere University of Technology)
- Pedro A. Santos (Universidade de Lisboa)

- Per Backlund (University of Skövde)
 Petros Petridis (University of Thessaly)
 Pierre Laforcade (Le Mans university)
 Rafel Bidarra (Dufft University of Technology)
- Ralf Klamma (RWTH Aachen University)
- Riccardo Berta (University of Genoa)
- Rob Nadolski (Open University of the Netherlands-Welten
- Rui Prada (Universidade de Lisboa) Samir Garbaya (ENSAM Art et Metiers ParisTech)
- Samuel Mascarenhas (Universidade de Lisboa)
- Sandy Louchart (Glasgow School of Art)
 Sobah Abbas Petersen (Norwegian University of Science and Technology
- **Spyros Vosinakis** (University of the Aegean, Department of Product and Systems Design Engineering)
- Stelios Xinogalos (University of Macedonia)
- Teresa de La Hera Conde-Pumpido (Erasmus University Rotterdam)
- Tharrenos Bratitsis (Assistant Professor, University of Western Macedonia)
- Theo Lim (Heriot-Watt University)
 Thierry Nabeth (P-Val Conseil)
- Valentina Dal Grande (Consiglio Nazionale delle Ri-
- Vlasios Kasapakis (University of the Aegean Department of Cultural Technology and Communication)
 Wim Westera (CELSTEC-Centre for Learning Sciences and Technologies, Open University of the Netherlands)
- Yannis Skarpelos (Panteion University)
- Yoones A. Sekhavat (Tabriz Islamic Art University)
 Yurgos Politis (UCD)
- Zerrin Yumak (Utrecht University)

GOLD SPONSORS



In 2020, IMMERSIVE FACTORY launched an improved version of its platform deeply transforming it in a permanent, immersive, fun and collaborative environment for training and awareness-raising still dedicated to health, environment and safety at work.

immersivefactory.com/



Numix are experts in digital and immersive teaching. They build innovative VR, AR training for the industry with a strong focus on pedagogy and technology: train people in hazardous and risky environments where they can fail safely.

numix.fr/en/



The Open University of the Netherlands develops and provides open higher distance education. There is a special focus on the use of new ICTs and teaching/learning methods to provide effective, efficient, attractive and accessible life-long learning facilities and education to Dutch citizens.

www.ou.nl/

SILVER SPONSORS



Start-up Mission is an entrepreneurship serious game in which students will launch an application on a realistic virtual market.

www.franck-tonnerre.com



Organization approved by the French government and specialized in virtual reality, augmented reality and emerging technologies. They are a technology enabler for business development. Training, consulting, assistance for project management, research programs, proof of concept design and technological transfer have been part of the missions entrusted to their teams for more than 20 years.

www.clarte-lab.fr/



Atlangames is a non profit organization which gathers video game companies in Western France and aims to help our members to find new business partners.

www.atlangames.com



The Serious Games Association is primarily a not-for-profit, volunteer-driven, transnational society registered in Singapore. This organization's objectives are to advance scientific and technological applications of games as well as educational and literary research within the field of serious games and game technology

www.seriousgamesassociation.org

BRONZE SPONSORS



ATIEF (Association des Technologies de l'Information pour l'Éducation et la Formation) is an academic association that aims to promote research in Technology-Enhanced Learning. It brings together researchers from French-speaking countries in various domains and organizes the two biannual conferences EIAH and RJC-EIAH (Young Researchers in EIAH) and manages the STICEF journal.

www.atief.fr

PARTNERS



Laval Mayenne Technopole is an association created in 1996. It provides services and support to all innovative projects of the region, such as, innovative entrepreneurial projects, TPE, PME, laboratories, researches, etc.

www.laval-technopole.fr



ZOOM, centre for scientific, technical and industrial culture in Laval. Founded in 1996, this association offers interactive tools to discover and enhance the scientific knowledge. It has been labeled Science and Culture – Innovation by the French Research and Higher Education Ministry.

www.ccsti-laval.org

LAVAL VIRTUAL WORLD

Welcome to the Laval Virtual World!

GALA 2020 will be held fully online in the Laval Virtual World with multiple opportunities to discuss, network and interact without putting our health at risk.

Click to download the Laval Virtual World application and follow the steps to install the application.

https://www.virbela.com/install?id=laval

Download and install Laval Virtual World (supported by VirBELA)

You can access the Laval Virtual World by downloading the VirBELA application into your computer (PC or Mac).



• Select your graphic preferences

Once the download of the application is finished, you will be able to launch the application by clicking on « *Play* ».

 Create an account with the same email you used for the conference registration



Customize your avatar

Then, once your account is created, you will enter in a dressing room where you can customize your avatar.



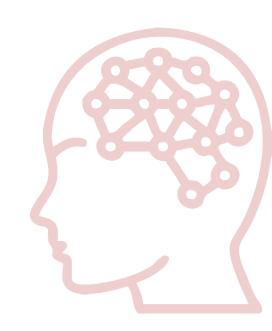
- Test your microphone
- Explore the world

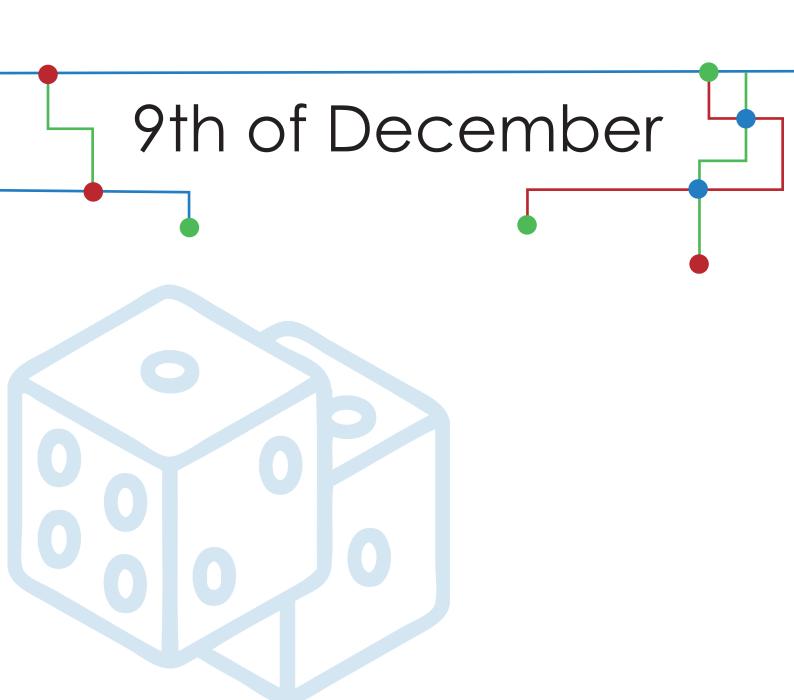
PROGRAM

DAY 1 – 9TH OF DECEMBER		
9h30	Conference Opening	
10h – 10h45	Keynote #1 Anna Cox	
10h45 – 11h45	Paper session #1 Gamification Theory	
11h45 – 12h30	Paper session #2 Serious Game Analytics	
12h30 – 13h30	Lunch	
13h30 – 15h30	Paper session #3 Serious Games for Instruction	
15h30 – 16h	Coffee Break	
16h – 17h45	Paper session #4 Serious Games Applications and Studies	
17h45 – 18h	Sign up for treasure hunt	
18h – 19h	Treasure Hunt	

PROGRAM

DAY 2 – 10TH OF DECEMBER		
9h30 – 10h15	Keynote #1 Anne-Gwenn Bosser	
10h15 — 11h00	Paper session #5 Virtual and Mixed Reality Applications	
11h00 – 12h30	Paper session #6 Gamification Applications	
12h30 – 13h30	Lunch	
13h30 – 14h45	Paper session #7 Serous Games Design	
14h45 – 15h15	Award Ceremony	
15h15 – 16h45	Exhibition & Poster Session	
16h45 – 17h	Conference Closing	
17h – 18h	SGS General Assembly	





Conference Openning



Location: GALA conf | Conference Hall

GaLA 2020 is an event organized by the Serious Games Society and the researchers of LIUM, Le Mans University (Laval, France).

Serious Game Society

The SGS has been designed to bring together the cutting edge companies, institutions and individuals researching on and developing Serious Games. We focus on helping members in connecting and benefiting from the wide range of resources available in the Serious Games space.

The SGS aims at becoming the reference point on Serious Games and Gamification at the scientific, technological and professional level.

The SGS's core purpose is to foster technological innovation and excellence in the field of Serious Games and Gamification for the benefit of all the people. The SGS fosters research and technology transfer between research, industry and educational establishment in the multiple disciplines involved in SGs design, development and deployment. The SGS provides a platform at European and international level for generation, promotion and co-ordination of SG-related activities, from research to marketing, from corporate training to university education. The SGS promotes the development and use of Serious Games across sectors (health, business, cultural heritage, etc.) and contexts of use (formal education, corporate training, leisure time). We aim to extend the application domains and expand the market for Serious Games.

LIUM - TEL team

This 9th edition of the GALA conference is organized by researchers of LIUM, the computer science lab of Le Mans University. They work at the IUT technical school in Laval, France. They are part of the biggest research team in Technology Enhanced Learning in France. The team works on three main topics:

Design, Operationalization and Adaptation of Pedagogical Situations

The main goal is to integrate teachers and instructors in the design process of TEL systems. Our studies focus on engineering situations where TEL systems are designed by teachers (academic) or instructors (non-academic) themselves, and not by TEL researchers or professionals in TEL development. We consider TEL system design as a continuous iterative process, alternating (1) real time adaptation of the learning and teaching activities, (2) usage analysis and (3) reengineering, through a model driven approach.

Observation Modeling & Track Analysis

Our research focuses on the analysis of learning situations, guided by the teachers' observation needs. We develop solutions to allow the expression and the formalization of these needs and also to collect usage tracks. In addition, our work focus on methods for calculating and visualizing indicators for various actors (learners, teachers, researchers, etc.).

Advanced and Collaborative Interactions for Learning

The team also works on advanced interactions for learning (interactive tables, mixed reality, tangible interfaces...) in particular for Serious Games. The research questions are related to the design of authoring tools for TEL systems, the use of advanced interactions, as well as how to support collaborative learning situations.

KEYNOTE 1





Anna COX

Anna Cox is Professor of Human-Computer Interaction in the UCL Interaction Centre (UCLIC), in the Division of Psychology and Language Sciences and Vice Dean (Equality, Diversity & Inclusion) in the Faculty of Brain Sciences. She was Deputy-Director of UCLIC 2009-2017, chair of the Athena SWAN self-assessment team in the Division of Psychology and Language Sciences, achieving renewal of a silver award on 2 occasions, and Faculty Athena SWAN lead 2017-2019. She is also a parent.

Professor Cox's first degree is in Cognitive Science (Hertfordshire), and her MSc is in Human-Computer Interaction (Queen Mary, University of London). She was awarded her PhD from the University of Hertfordshire in 2002. She became a lecturer in the Computer Science department at University of Hertfordshire before moving to UCL as a Lecturer in 2004. She was promoted to full professor in 2017.

Professor Cox has published widely, beginning with her PhD work on exploratory learnina, to more recent work on human error. digital games, formation habit and personal informatics. Her current research focuses on work and wellbeing in the digital age.

Professor Cox is a member of both the CHI and the CHI PLAY steering committees. She was Specialist Advisor to the Digital, Culture, Media and Sport Select Committee at the House of Commons for their 2019 inquiry into immersive and addictive technologies. She has served in senior roles on the programme and committees organising of number of top-tier HCI conferences, programme including as technical chair for CHI2018 and CHI2019 and general chair of CHI PLAY 2015 and 2016.



Location: GALA conf | Conference Hall

Gamification theory

 Gamification and Beyond: The Case of Ludification

Bo Kampmann Walther and Lasse Juel Larsen

Speaker: Bo Kampmann Walther

The Empirical Investigation of the Gamified Learning Theory

Nadja Zaric, Vlatko Lukarov and Ulrik Schroeder

Speaker: Nadja Zaric

★ Best student paper nominee

 7 P's of gamification: a strategic design tool for ideation of gamified solutions Hélder Ferreira, Catarina Roseira and Rui Patrício

Speaker: Hélder Ferreira

 Motivation in Gamification: defining a correlation between gamification achievements and self-determination theory

Brunella Botte, Sander Bakkes and Remco Veltkamp

Speaker: Brunella Botte





Serious Game Analytics

IGAT – Interactive Gamification Analytics Tool

Nadja Zaric, René Röpke, Dirk Manuel Gottschlich and Ulrik Schroeder Speaker: Nadja Zaric

A scalable architecture for one-stop evaluation of serious games

Iván José Perez-Colado, Víctor Manuel Pérez Colado, Iván Martínez Ortiz, Manuel Freire Morán and Baltasar Fernandez-Manjon

Speaker: Iván José Perez-Colado

Employing an IoT Framework as a generic Serious Games Analytics Engine Luca Lazzaroni, Andrea Mazzara, Francesco Bellotti, Alessandro De Gloria and Riccardo Berta

Speaker: Luca Lazzaroni



Serious Games for Instruction

Flow experience and situational interest in an adaptive math game
 Antero Lindstedt, Antti Koskinen, Jake McMullen, Manuel Ninaus and Kristian Kiili

Speaker: Antero Lindstedt



 Design and evaluation of an adventure videogame based in the history of mathematics

Mariana Rocha and Pierpaolo Dondio Speaker: Mariana Rocha

 Motivational potential of leaderboards in a team-based math game competition

Manuel Ninaus, Sara de Freitas and Kristian Kiili

Speaker: Manuel Ninaus

Speaker: Matteo Antonini

 A serious game for studying decision making by triage nurses under stress
 Jarle Hulaas, Dominique Jaccard, Assunta Fiorentino, Philippe Delmas, Antonini Matteo, Séverine Vuilleumier, Guy Stotzer, Aurélien Kollbrunner, Olivier Rutschmann, Josette Simon, Olivier Hugli, Charlotte Gilart de Keran-flec'H and Jérôme Pasquier Factors Affecting Success in a Digital Simulation Game for Nurse Training Daria Novoseltseva, Catherine Pons Lelardeux and Nadine Jessel Speaker: Daria Novoseltseva

 Towards a methodology to co-design a learning game by nursing students
 Sebastian Gajewski, Nour El Mawas and Jean Heutte

Speaker: Sebastian Gajewski

 Class-Card: a Role-Playing Simulation of Instructional Experiences for Pre-service Teachers

Philippe Dessus, Julie Chabert, Jean-Philippe Pernin and Philippe Wanlin Speaker: Philippe Dessus

How to engage young adults in reading H. C. Andersen's fairy tale The
 Little Mermaid, through a serious game
 Thevakorn K. Lauritsen, Delan Kasim Ali,
 Niklas Fruerlund Jensen, Irene Ubieto
 Alamillo and Thomas Bjørner
 Speaker: Thomas Bjørner



Serious Games Applications and Studies

 Design of a Gameful Application for Individuals with Acuired Brain Injuries to Relearn Social Functioning Laura-Jane Douch, Kristin Gozdzikowska

Speaker: Laura-Jane Douch

 Artifactual affordances in playful robotics

George Kalmpourtzis and Margarida Romero

Speaker: George Kalmpourtzis

 A Board Game to Fight Misinformation and Fake News

Christophe Maze, Arthur Haye, Joshua Sarre, Michel Galaup, Pierre Lagarrigue and Catherine Pons Lelardeux

Speaker: Arthur Haye

A serious game for students to acquire productivity habits

Wouter Raateland, Konstantinos Chronas, Tim Wissel, Tim Bruyn, Bertan Konuralp, Mijael Ricardo Bueno Perez, Nestor Z. Salamon and Rafael Bidarra

Speaker: Tim Bruyn

 A serious game for changing mindsets about loans for home retrofitting Olivier Dikken, Kushal Prakash, Bart

Roseboom, Ana Rubio, Sander Østvik, Mijael Ricardo Bueno Perez, Nestor Z. Salamon and Rafael Bidarra

Speaker: Sander Østvik

Intrinsic Motivation in Serious Gaming:
 A Case Study

Heinrich Söbke, Uwe Arnold and Michael Montag

Speaker: Heinrich Söbke

 Two Years After: A Scoping Review of GDPR Effects on Serious Games Research Ethics Reporting

Patrick Jost and Marisa Lampert

Speaker: Patrick Jost

Program



Sign up for treasure hunt



Treasure Hunt

A computer scientist, who took part in the Time Machine research project, has just been dumped by his researcher girlfriend. He wanted to take revenge by removing her from our space-time.

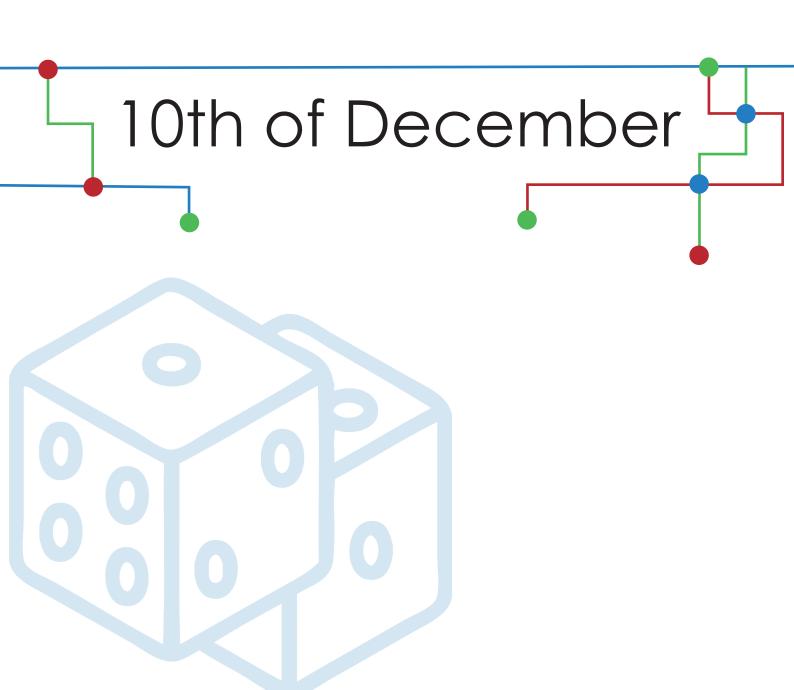
Unfortunately, he made a mistake and deleted an essential sequence of numbers which created a spatio-temporal breach. Eight women, who made history of IT disappeared from our timeline. It is as if they never existed!

If nothing is done, their breakthroughs and discoveries will never have occurred or will be delayed, resulting in a tremendous technological setback in our present! Also, you may be stuck in this virtual world... forever!

You have one hour to find the 8 codes with 6-digit each, to insert into the time machine and repair our space-time. After that, it will be too late! This is a cooperative mission.

Group into 8 teams and hurry up to find your code. The fate of humanity is in your hands!





KEYNOTE 2





Anne-Gwenn BOSSER

Anne-Gwenn Bosser is an Associate Professor at ENIB in France, near Brest, in Western Brittany. She is a member of the Lab-STICC (CNRS UMR 6285).

Previously, she was in charge of the Games Development curriculum at Teesside University, and a member of the Intelligent Virtual Environments lab. Before that, she was a JSPS fellow at Kwansei Gakuin University in Japan, and a post-doctoral researcher at CNAM Paris. In a past life, she worked in R&D in the game industry. She holds postgraduate degrees in philosophy, in mathematics, and also in industrial software engineering. The work she carried for her PhD in Computer Science at Paris 7 University has been awarded the prize of the Young Researcher in Games at Imagina 2005.

Her research interests currently revolve around computational narratives in the context of interactive applications, especially computer games or virtual reality simulations, which she studies from a logical standpoint.

Since 2013, her research takes place at the CERV (Centre Européen de Réalité Virtuelle), a technological platform equipped with immersive systems and interactive devices. The CERV brings together research laboratories, companies and students in a multidisciplinary context and has produced a number of simulation-based applications for training, health, or artistic purposes. For this keynote, she will present the work taking place at CERV related to serious games and virtual reality.



Virtual and Mixed Reality Applications

 Use of Virtual Reality technology for CANDU 6reactor Fuel Channel operation Training

Ziqi Fan, Kaitlyn Brown, Stephane Nistor, Karishma Seepaul, Kody Wood, Alvaro Uribe Quevedo, Sharman Perera, Edward Waller and Shawn Lowe

Speaker: Lillian (Ziqi) Fan

 Dynamic Difficulty Adjustment Through real-time physiological feedbacks for a more adapted Virtual Reality Exposure Therapy

Sorelle Audrey Kamkuimo K., Benoît Girard and Bob-Antoine J. Menelas Speaker: Sorelle Audrey Kamkuimo K Analysis of Mixed Reality Tools for Learning Math in Primary and Secondary School

Sofiane Touel, Iza Marfisi-Schottman and Sébastien George

Speaker: Sofiane Touel



Gamification applications

 Bloxxgame – A Simulation Game for Teaching Blockchain

Walter Dettling and Bettina Schneider Speaker: Walter Dettling

 Pointer Attack: Lessons Learned in Computer Concept Gamification Andrew Droubay and Durell Bouchard Speaker: Andrew Droubay

*Best student paper nominee

 Antecedents of the adoption of gamification in strategy alignment: an exploratory study of Middle Managers' perspective

Hélder Ferreira and Catarina Roseira Speaker: Hélder Ferreira Using gamification to improve students' typing skills

Szabina Fodor and Márton Varga Speaker : Szabina Fodor

 Designing an online Dungeons & Dragons experience for primary school children

Rosalba Spotorno, Marco Picone and Manuel Gentile

Speaker: Rosalba Spotorno



Location: GALA conf | Conference Hall

Serious Games Design

 Accessibility and serious games: What about Entity-Component-System software architecture?

Mathieu Muratet and Délia Garbarini Speaker: Mathieu Muratet

 Generation of adapted learning scenarios in a serious game: lessons learnt Pierre Laforcade

Speaker: Pierre Laforcade

 Lessons Learned from Implementing a Serious Game in Higher Education – A Student and Trainer Perspective

Knut Erik Bonnier, Rune Andersen and Hege Mari Johnsen

Speaker: Knut Erik Bonnier

 User-Centred Design Method for Digital Catalogue Interfaces

Maho Wielfrid Morie, Iza Marfisi-Schottman and Bi Tra Goore

Speaker: Maho Wielfrid Morie

Approaching Quantum Entanglement
 Developing a Serious Game in Quantum Computing for IT Professionals

Isabell Heider, Harald Bendl, Jan-Rainer Lahmann and Frauke Mörike

Speaker: Isabell Heider



Award Ceremony

Representatives of the GALA 2020 conference sponsors and partners will announce the best paper, best student paper and the winners of the Serious Game competition (Academic, Business and Student categories).

Exhibition & Posters session



Sponsors and partners

Booth	Institution	Exhibitor
D30	Immersive Factory SPONSOR GOLD	Linda Lachenmeier
B30	Numix SPONSOR GOLD	Benjamin Granier Jeff Sebrechts
A11	Start-up mission SPONSOR SILVER	Franck Tonnerre
A21 et A22	AtlanGames SPONSOR SILVER	Elsa Charrier Pierre Laloge Julien Trudelle
A12	CLARTE SPONSOR SILVER	Lionel Dominjon
A32	SGA SPONSOR SILVER	Ronal Nanninga
A31	G4N SPONSOR SILVER	Pedro Beça Monica Aresta
D21	ATIEF SPONSOR BRONZE	Rémi Venant Christophe Reffay
D22	Laval Mayenne Technopole PARTNER	Floortje de Vink Céline Loury

Games and VR Tools Campanies

Booth	Institution	Exhibitor	Serious game
C31	L'indien du Nord	Sofiane Chiouar	Towards school inclusion
C32	WIN YOUR STAR	Grégoire Parmentier	WYS Game
C24	CCCP	Bruno Laverny	CCCP Serious Games
C23	Manzalab	Rhodia Kwemo	Kwemo Diversity Swap Serious Game
E22	Melazeta srl	Lara Oliveti	Change Game
D11	My Serious Game	Alban Péan	IFSIMULATION

Exhibition & Posters session



Academic Serious Games

Booth	Institution	Exhibitor	Serious game
B34	Institute of Business Information Systems University of Applied Sciences and Arts Northwes- tern Switzerland	Walter Dettling	Bloxxgame
B33	IADE - Faculty of Design, Tech- nology and Communication - Universidade Europeia	Rui Patrício	ideaChef
C34	University of South Australia	Susannah Emery	Hannah : a friend in need
C33	Conservatoire national des arts et métiers	Adeline Isach	Opération LITED
D34	LIRIS - INSA LYON	Mathieu Loiseau	Luciole
D33	Grenoble-Alpes University	Carole Adam	Vigiflood
B21	Grenobles University	Lizandro Becerra	Chiribiquete
B22	University of Pembangunan Nasional "Veteran" Jawa Timur	Pratama W. Atmaja	SISGERDU
C21	Institut Arts et Métiers Laval	Simon Richir	Immersive technologies on Arts et Métiers' serious games
C22	University of Northampton	lain Douglas	EYVE
B12	Ludwig Boltzmann Gesellschaft	Gloria Mittmann	Sometimes school's a nightmare
B11	Université UPJV Laboratoire MIS – UFR des Sciences	Marilyne Rosselle	APO
B11	Université UPJV Laboratoire MIS – UFR des Sciences	Marilyne Rosselle	3×3 brain-dumps
C12	Cognitive Augmented Reality Lab	Nazanin Ali Farshbaf Akbari	Saray
C11	Université de Franche-Comté	Frédéric Dadeau	Callabots
D21	Delft University of Technology	Mijael Bueno	TU Delft's Serious Games
E21	Faculty of Multimedia, Tabriz Islamic Art university	Mahra Amiri	KeepStep
Ell	RaykaMedia; CARLab; Faculty of Multimedia at Tabriz Islamic Art University	Milad Jafari Sisi	TizRun

Exhibition & Posters session



Poster Presentations

Booth	Institution	Exhibitor	Poster title
B41	Greece University of Macedo- nia	Savvas Eleftheriadis	Office Madness: Design and pilot evaluation of a serious game for learning the C++ programming language
B42	University of Siena	Samanta Mariotti	What if "Lara Croft" be- comes a video game desi- gner? When archaeologists "dig" serious games
C41	CNRS, France	Antoine Taly	The Colectyng model for the evaluation of Game-Based Learning Activities
C42	Thailand National Institute of Development Administration	Ronakrit Taweechaina- ruemitr	Farming Simulation Game for Sufficient Economy Theory Learning in Thailand
D41	Ionian University	Varvara Garneli Konstantinos Patiniotis	Game Mechanics of a Character Progression Multiplayer Role-Playing Game with Science Content
D42	India National Institute Of Technology Kurukshetra	Sameer Gupta	Guess Who? – A Serious Game for Cybersecurity Pro- fessionals
E41	Technische Universität Dresde	Sandra Schulz	Challenges in Developing an Adaptive Serious Game and in Creating a Learning Data Model
E34	Colombia Universidad Militar	Tatiana Ortegon	Developing Stethoscope Replicas for Cardiac Auscul- tation Training: A Compari- son between Virtual Reality, Mobile, and Makerspace
E31	Delft University of Technology	Maria Freese	Digital versus Analogue Simulation Games: Influence on Validity, Play(er) Experience and Learning Outcomes
E24	Arizona State University	Vipin Verma	Predicting Real-time Affective States by Modeling Facial Emotions Captured During Educational Video Game Play

SGS General Assembly



Location: ZOOM meeting https://kth-se.zoom.us/j/63325835974



The General Assembly will be held at the end of GALA Conf 2020.

Agenda of the 2020 ordinary general meeting of the serious games society:

- 1) Presentation and approval of the 2019 balance sheet
- 2) Presentation and approval of the activity report of the 2020 year
- 3) Next GALA conference editions
- 4) IJSG
- 5) Webinars, workshops, game jams and similar
- 6) SGS 2021 Board Elections
- 7) Any other business





https://conf.seriousgamessociety.org



@galaconf2020