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Entertainment Computing – ICEC 2021


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Proceedings


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Preface

With pride we present the conference proceedings of ICEC 2021, the 20th edition of the IFIP International Conference on Entertainment Computing. It was hosted by the Department of Informatics Engineering of the University of Coimbra in Portugal. The mission of ICEC is to bring together researchers and practitioners from diverse backgrounds in the fields of entertainment computing and serious games to discuss and learn from each other's experiences in order to achieve more attractive and meaningful applications. Consequently, for ICEC 2021, all working groups in TC14 on entertainment computing contributed with article submissions, tutorials, interactive installations, and workshops, so that we are very happy to present contributions showing the variety of research that is required to develop good entertainment computing applications. In addition, there's a continuing desire to create a real global community, connecting researchers from all parts of the world to further the science of entertainment computing and serious games with industry, which was reflected in the invited keynotes. Furthermore, we were celebrating the 20th ICEC conference, and at the same time IFIP was celebrating its 60 anniversary with a set of activities, so we are happy to host one of these events as part of the conference.

Entertainment computing and serious games operate on the multidisciplinary intersection of design, art, entertainment, interaction, computing, psychology, and numerous serious application domains, bringing together researchers in all these fields, and therefore the program mirrors this diversity. The conference received a total of 83 submissions, and after an extensive review process 26 full papers, 13 works in progress papers, 3 interactive entertainment/experiential works, 3 student competition papers, 4 workshop papers, and 1 tutorial were accepted. The ICEC 2021 Program Committee was composed of 84 experts from 23 different countries, comprising a unique representation of the global entertainment computing and games communities. We thank all the members of this committee and all the additional external reviewers for their work and commitment. The importance and credibility of these proceedings are sustained by the competence and dedication of these professionals.

The conference program was furthermore enriched by two keynote speakers. Ana Paiva (University of Lisbon) gave a talk on how to make robotics social, namely the problem of engineering agents that exhibit specific social capabilities, including aspects such as emotions, personality, culture, non-verbal behavior, empathy, collaboration, and others. Josué Monchan (Pendulo Studios) spoke on narrative writing and other creative challenges behind games, helping us to understand several aspects of managing the creative process. Moreover, we inaugurated a special track of invited talks to recognize some of the most influential papers published through the Entertainment Computing journal.

We wish to recognize the hosting institution, the University of Coimbra, the cooperation of Sociedade Portuguesa das Ciências dos Videojogos, and the support of Instituto Pedro Nunes in helping to facilitate several aspects of this year's conference organization.

November 2021

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Contents

Full Research Papers

| | |
|---|-----|
| Comparison of Viewing Contents Using Large LED Display and Projector by Psychological Evaluation | 3 |
| <i>Ryohei Nakatsu, Naoko Tosa, Hiroyuki Takada, and Takashi Kusumi</i> | |
| CS:Show – An Interactive Visual Analysis Tool for First-Person Shooter eSports Match Data | 15 |
| <i>Robin Horst, Stefan Manuel Zander, and Ralf Dörner</i> | |
| Fun to Enhance Learning, Motivation, Self-efficacy, and Intention to Play in DGBL | 28 |
| <i>Gabriella Tisza, Sijie Zhu, and Panos Markopoulos</i> | |
| Murder on Mansion Hill: Encouraging Collaborative Group Storytelling to Improve Motivational Aspects of Literacy Using Gameplay and Arts-Based Techniques | 46 |
| <i>Simone Downie</i> | |
| Cultural Emotion Games as Trajectory Learning in Southeast Asia | 62 |
| <i>V. Sithira Vadivel, Insu Song, and Abhishek Singh Bhati</i> | |
| A Taxonomy of Social Roles for Agents in Games | 75 |
| <i>Diogo Rato and Rui Prada</i> | |
| Kill or Spare – Moral Decision-Making in Video Games | 88 |
| <i>Elisabeth Holl and André Melzer</i> | |
| Performative Virtual Scenes: A Dynamic VR Environment Design Approach | 100 |
| <i>Nuno N. Correia, Stephan Jürgens, Raul Masu, Jochen Feitsch, and Ivana Druzetic</i> | |
| A Symbolic Machine Learning Approach for Cybersickness Potential-Cause Estimation | 115 |
| <i>Thiago Porcino, Erick O. Rodrigues, Flavia Bernardini, Daniela Trevisan, and Esteban Clua</i> | |

| | |
|--|-----|
| Fundamental Study of Color Combinations by Using Deuteranope-Simulation Filter for Controlling the Handicap of Color Vision Diversity in Video Games | 127 |
| <i>Yuka Fujiwara and Satoshi Nakamura</i> | |
| Social Gaming Patterns During a Pandemic Crisis: A Cross-cultural Survey | 139 |
| <i>Aakash Johry, Günter Wallner, and Regina Bernhaupt</i> | |
| A Real-Time Drum-Wise Volume Visualization System for Learning Volume-Balanced Drum Performance | 154 |
| <i>Mitsuki Hosoya, Masanori Morise, Satoshi Nakamura, and Kazuyoshi Yoshii</i> | |
| Speech Recognition Game Interface to Increase Intimacy with Characters | 167 |
| <i>Saki Anzai, Tokio Ogawa, and Junichi Hoshino</i> | |
| Game Development as a Serious Game with Live-Programming and Time-Travel Mechanics | 181 |
| <i>Anthony Savidis and Alexandros Katsarakis</i> | |
| AI Game Agents Based on Evolutionary Search and (Deep) Reinforcement Learning: A Practical Analysis with Flappy Bird | 196 |
| <i>Leonardo Thurler, José Montes, Rodrigo Veloso, Aline Paes, and Esteban Clua</i> | |
| Instruction Pictograms for Interactive Entertainment | 209 |
| <i>Kei Kobayashi and Junichi Hoshino</i> | |
| How Awe Affects Players' Entertainment Experiences Over Six Weeks of Playing | 223 |
| <i>Daniel Possler, Christoph Klimmt, and Nicholas D. Bowman</i> | |
| The Gilmorehill Mystery: A Location-Based Game for Campus Exploration ... | 236 |
| <i>Kieran Swedlund and Matthew Barr</i> | |
| reco.mu: A Music Recommendation System Depending on Listener's Preference by Creating a Branching Playlist | 252 |
| <i>Kosuke Nonaka and Satoshi Nakamura</i> | |
| Towards Suitable Free-to-Play Games for Children | 264 |
| <i>Andreas Kristiansen Melzer, Anna Kristine Roarsen, Marte Hoff Hagen, and Letizia Jaccheri</i> | |
| Provenance in Gamification Business Systems | 277 |
| <i>Michelle Tizuka, Esteban Clua, Luciana Salgado, and Troy Kohwalter</i> | |

| | |
|--|-----|
| Computational Narrative Blending Based on Planning | 289 |
| <i>Edirlei Soares de Lima, Bruno Feijó, and António L. Furtado</i> | |
| Linkages Between Gameplay Preferences and Fondness for Game Music | 304 |
| <i>Jukka Vahlo, Oskari Koskela, Kai Tuuri, and Heli Tissari</i> | |
| That Sound's Juicy! Exploring Juicy Audio Effects in Video Games | 319 |
| <i>Jolie H. K. Smets and Erik D. van der Spek</i> | |
| What Is a Game Mechanic? | 336 |
| <i>Priscilla Lo, David Thue, and Elin Carstensdottir</i> | |
| A Method for Supporting Verbalization to Facilitate Observation in Illustration Copy-Drawing | 348 |
| <i>Ippei Sugano and Satoshi Nakamura</i> | |
| Works in Progress | |
| Optimization of First-Person Shooter Game Control Using Heart Rate Sensor | 363 |
| <i>Shuo Zhou and Norihisa Segawa</i> | |
| Virtual Guia Fortress: A 3D-printed eXtended Reality Playset | 370 |
| <i>Iok Fong Chau, Jorge C. S. Cardoso, and Gerald Estadieu</i> | |
| Recreating a TransMedia Architectural Location In-Game via Modular Environment Assets | 377 |
| <i>Nataska Statham, João Jacob, Mikael Fridenfalk, and Rui Rodrigues</i> | |
| Interaction Toolkit for Programming Interactions with Marker-Based Tangibles in Virtual Reality | 386 |
| <i>João Mesquita and Jorge C. S. Cardoso</i> | |
| Sketch Recognition for Interactive Game Experiences Using Neural Networks | 393 |
| <i>Elif Hilal Korkut and Elif Surer</i> | |
| Basic Research on How to Apply Foundation Makeup Evenly on Your Own Face | 402 |
| <i>Miho Kajita and Satoshi Nakamura</i> | |
| Identifying the Impact of Game Music both Within and Beyond Gameplay | 411 |
| <i>Kai Tuuri, Oskari Koskela, Jukka Vahlo, and Heli Tissari</i> | |

| | |
|---|-----|
| Investigating Impact of Augmented Reality on Game Design to Facilitate Learning Experiences in Logistics Operations Using Immersive AR Interfaces | 419 |
| <i>Sundus Fatima, Jannicke Baalsrud Hauge, Prabahan Basu, Jakob Baalsrud Hauge, Anindya Chowdhury, and Artem Schurig</i> | |
| Amnesia in the Atlantic: An AI Driven Serious Game on Marine Biodiversity | 427 |
| <i>Mara Dionísio, Valentina Nisi, Jin Xin, Paulo Bala, Stuart James, and Nuno Jardim Nunes</i> | |
| A VR-Based Serious Game Associated to EMG Signal Processing and Sensory Feedback for Upper Limb Prosthesis Training | 433 |
| <i>Reidner Cavalcante, Aya Gaballa, John-John Cabibihan, Alcimar Soares, and Edgard Lamounier</i> | |
| A Review on the Contribution of ClassDojo as Point System Gamification in Education | 441 |
| <i>Rabab Marouf and Joseph Alexander Brown</i> | |
| Assessing the Support for Creativity of a Playground for Live Coding Machine Learning | 449 |
| <i>Francisco Bernardo, Chris Kiefer, and Thor Magnusson</i> | |
| Safety Risks in Location-Based Augmented Reality Games | 457 |
| <i>Munir Makhmutov, Timur Asapov, and Joseph Alexander Brown</i> | |
| Workshops | |
| Virtualization of Digital Location-Based Experiences | 467 |
| <i>Jannicke Baalsrud Hauge, Heinrich Söbke, and Ioana A. Stefan</i> | |
| Artificial Intelligence and Entertainment Science Workshop: Towards Empathic Entertainment Technology | 475 |
| <i>Mohd Nor Akmal Khalid, Hiroyuki Iida, Umi Kalsom Yusof, and Ruzinoor Che Mat</i> | |
| Aesthetic Perspectives on Computational Media Design | 482 |
| <i>Rui Craveirinha, Luís Lucas Pereira, Mariana Seïça, and Licínio Roque</i> | |
| Workshop: Challenges for XR in Digital Entertainment | 489 |
| <i>Esteban Clua, Thiago Porcino, Daniela Trevisan, Jorge C. S. Cardoso, Thallys Lisboa, Victor Peres, Victor Ferrari, Bruno Marques, Lucas Barbosa, and Eder Oliveira</i> | |

Interactive Entertainment/Experiential Works

“The Woods” AR Game 501
*Scott Swearingen, Kyoung Swearingen, Fede Camara Halac,
 Sruthi Ammannagari, and Matt Hall*

Sentenced to Transportation: An iDoc for Australia’s Convict Past 505
Nicole Basaraba

Casa das Máquinas: An Artificial Dialogue of Portuguese Poetry 509
*Mariana Seïça, João Couceiro e Castro, Sérgio Rebelo, Pedro Martins,
 Ana Boavida, and Penousal Machado*

Student Game and Interactive Entertainment Competition

Designing an Arts-Based, Collaborative Mystery Game to Improve
 Players’ Motivation and Confidence as Storytellers 515
Simone Downie

An Introduction to ChemiKami AR 521
Tengjia Zuo, Erik D. van der Spek, Max V. Birk, and Jun Hu

¡Juéguelo!: An Interactive Compilation of Traditional Colombian Games* 527
*Andrés Felipe Daza Díaz, Luis José García Mojica,
 Luisa Mariana Rodríguez Cifuentes, and Pablo Figueroa*

ICEC Tutorial

Cross-Sector and Cross-Discipline Project Planning for Serious Interactive
 Digital Narratives 537
Nicole Basaraba

Author Index 541