

1. Record Nr.	UNINA9910349459203321
Titolo	Advances in Computer Entertainment Technology : 14th International Conference, ACE 2017, London, UK, December 14-16, 2017, Proceedings // edited by Adrian David Cheok, Masahiko Inami, Teresa Romão
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	9783319762708 3319762702
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XVI, 895 p. 374 illus.)
Collana	Information Systems and Applications, incl. Internet/Web, and HCI, , 2946-1642 ; ; 10714
Disciplina	790.20285
Soggetti	Application software User interfaces (Computer systems) Human-computer interaction Image processing - Digital techniques Computer vision Computer engineering Computer networks Artificial intelligence Computer and Information Systems Applications User Interfaces and Human Computer Interaction Computer Imaging, Vision, Pattern Recognition and Graphics Computer Engineering and Networks Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Preface -- Organization -- Can Robots and Humans Make Babies Together? (Keynote Speech) -- Contents -- Creating Room-Scale Interactive Mixed-Reality Worlds Using Off-the-Shelf Technologies -- Abstract -- 1 Introduction -- 2 Related Research -- 3 Accurate Real-Object Representations -- 3.1 Photogrammetry -- 3.2

3D Scanning -- 4 MR World Materialization -- 4.1 Real Object Registration to the MR World -- 4.2 Real-Time Hand Representation -- 4.3 Object Tracking Accuracy Issues -- 5 Conclusion and Future Work -- Acknowledgment -- References -- Evaluation of a Mixed Reality Head-Mounted Projection Display to Support Motion Capture Acting -- 1 Introduction -- 2 Related Work -- 3 Our Concept of Supporting Motion Capture Acting -- 4 Prototype Description -- 5 User Tests -- 5.1 Procedure -- 5.2 Description of Acting Scenes -- 6 Evaluation Results -- 6.1 Card Sorting -- 6.2 Interviews -- 6.3 Technology and Usability Evaluation -- 6.4 Observation -- 7 Discussion and Conclusion -- 8 Future Work -- References -- Step by Step: Evaluating Navigation Styles in Mixed Reality Entertainment Experience -- Abstract -- 1 Introduction -- 2 Related Work -- 3 MR Experience: "The Old Pharmacy" -- 4 Study: Navigation Styles in a MR Experience -- 4.1 Experimental Design -- 4.2 Demographics -- 4.3 Procedure and Measures -- 4.4 Data Analysis -- 4.5 Quantitative Data Results -- 4.6 Qualitative Data Results -- 5 Discussion -- 6 Conclusion and Future Work -- Acknowledgments -- References -- Increasing Presence in a Mixed Reality Application by Integrating a Real Time Tracked Full Body Representation -- 1 Introduction -- 2 Passive Haptics -- 2.1 Mixed Reality -- 2.2 Controls in Mixed Reality -- 3 Development of a Mixed Reality Application -- 3.1 Setting -- 3.2 Task -- 4 Evaluation -- 4.1 Participants -- 4.2 Results -- 5 Discussion -- References.

An Approach to Basic Emotion Recognition Through Players Body Pose Using Virtual Reality Devices -- Abstract -- 1 Introduction -- 2 Using Emotions in Video Games -- 3 Detecting Players Poses -- 4 Results and Discussion -- 5 Conclusion -- References -- Development and Evaluation of an Interactive Therapy Robot -- Abstract -- 1 Introduction -- 2 Related Work -- 3 Internet Survey -- 3.1 Participants -- 3.2 Survey Items -- 3.3 Survey Results -- 4 Implementation -- 4.1 Interactive Functions -- 4.2 Design -- 4.3 System Configuration -- 5 Interview Evaluations of the Interactive Therapy Robot -- 5.1 Interview Style -- 5.2 Participants -- 5.3 Survey Procedure -- 5.4 Interview Results -- 6 Discussion -- 6.1 Target of the Interactive Therapy Robot -- 6.2 The Appearance of the Interactive Therapy Robot -- 6.3 Motions of the Interactive Therapy Robot While Listening and During Conversations -- 7 Conclusions -- 8 Future Work -- Acknowledgement -- Appendix -- References -- Lost Puppy: Towards a Playful Intervention for Wandering Dementia Patients -- 1 Introduction -- 2 Related Work -- 3 Addressing the Senses of People with Dementia -- 4 Context of the Exit -- 4.1 Interviews -- 5 Design of the Proposed Puppy Prototype -- 5.1 A Stuffed Animal -- 5.2 Location -- 5.3 Technical Implementation -- 6 Pilot Evaluation -- 7 Discussion -- 7.1 Improve the Setting, Sensors, Sounds, and Stimuli of the Puppy -- 7.2 Design for Dementia Insights: Towards Guidelines -- 8 Conclusion -- References -- A Dynamic Scenario by Remote Supervision: A Serious Game in the Museum with a Nao Robot -- 1 Introduction -- 2 Robots in Everyday Life -- 3 Playing with Nao in the Museum -- 3.1 First Approach: The Linear Programming of Nao -- 3.2 Modeling and Dynamic Supervision of the Game -- 4 A Dynamic Supervision Approach -- 4.1 Two-Layers Model -- 4.2 Example of the Model for the Robot in Museums.

4.3 Dynamic Supervision -- 5 Conclusion and Future Work -- References -- Hugvie as a Therapeutic Agent in the Improvement of Interaction Skills in Children with Developmenta ... -- Abstract -- 1 Introduction -- 2 The Study -- 3 Participants -- 4 Methodology -- 4.1 RQ1: How Would the Children Respond to Hugvie? -- 4.2 How Would Children Respond to Technology Embedded in Hugvie? -- 4.3 Is It just

a Novelty Effect? -- 5 Observational Notes -- 6 Discussion -- 7 Future Work -- Acknowledgments -- References -- A Week Without Plastic Bags: Creating Games and Interactive Products for Environmental Awareness -- Abstract -- 1 Introduction -- 2 Related Work -- 3 Design Process -- 4 Description of the Projects -- 5 Public Presentation and Preliminary Evaluation -- 6 Conclusions -- References -- A Tentative Assumption of Electroacoustic Music as an Enjoyable Music for Diverse People -- Abstract -- 1 Introduction -- 1.1 Workshop -- 1.2 Research on Emotions Evoked by Music -- 1.3 Moving Toward Integration -- 2 Workshop Methods -- 3 Scientifically and Academically Relevant Workshops -- 3.1 Activity 1: Measuring the Effects of the Workshop -- 3.2 Activity 2: Electroacoustic Listening Experiment -- 3.3 Activity 3: Music and Emotion (Symmetric Cognitive Bias) -- 3.4 Activity 4: Music and Its Complexity -- 4 Strategies Toward Funology -- 4.1 Activity Example 4 - Music and Its Complexity -- 4.2 Extension of Awareness and Recognition -- 4.3 Deconstruction of Belief -- 5 Conclusion -- Acknowledgments -- References -- Voice Animator: Automatic Lip-Synching in Limited Animation by Audio -- 1 Introduction -- 2 Related Work -- 2.1 Lip-Sync Animation -- 2.2 Stylized Cartoon Animation -- 2.3 Lip Motion Capture and Estimation -- 3 System Overview -- 3.1 Lip Motion Estimation -- 3.2 Animation Filtering -- 4 Results and Discussion -- 4.1 User Study A: Naturalness. 4.2 User Study B: Our Method Vs. Previous Methods -- 5 Implementation -- 6 Conclusions and Future Work -- References -- Polymorphic Cataloguing and Interactive 3D Visualization for Multiple Context of Digital Content: MoSalC -- Abstract -- 1 Introduction -- 2 Polymorphic Cataloguing -- 2.1 Modeling of Relationships -- 2.2 Cataloguing Objects with Properties -- 3 Visualization of Catalogue -- 3.1 Polymorphic Topology View -- 3.2 Layer View -- 4 Experiments -- 4.1 Experiment System: MoSalC -- 4.2 Experiments -- 4.3 Discussion -- 5 Conclusion -- Acknowledgments -- References -- Leveraging Icebreaking Tasks to Facilitate Uptake of Voice Communication in Multiplayer Games -- Abstract -- 1 Introduction -- 2 Background -- 2.1 Voice Communication in Games -- 2.2 Icebreakers to Facilitate Social Interaction -- 3 RET: A System to Study Icebreaking Tasks in Games -- 3.1 Gameplay -- 3.2 Integration of Icebreaking Tasks -- 4 Study: Exploring the Effects of Icebreaking Tasks in Multiplayer Games -- 4.1 Research Questions -- 4.2 Measures -- 4.3 Participants and Procedure -- 4.4 Quantitative Results -- 4.5 Data Analysis -- 4.6 Qualitative Results -- 5 Discussion -- 5.1 The Effects of Icebreaking Tasks on Player Experience -- 5.2 Adapting Icebreaking Tasks to Games -- 6 Limitations and Future Directions -- 7 Conclusion -- References -- Including Non-gamers: A Case Study Comparing Touch and Motion Input in a 3D Game for Research -- 1 Introduction -- 2 Background -- 3 The Game -- 3.1 Iterations and User Testing -- 4 Experiment Design -- 4.1 Measurements -- 4.2 Procedure -- 4.3 Data Processing -- 5 Results -- 6 Discussion -- 7 Conclusion -- References -- Player Adaptivity and Safety in Location-Based Games -- Abstract -- 1 Introduction -- 1.1 Location-Based Games -- 1.2 Adaptivity -- 1.3 Pervasive Exergames -- 2 Gathering Geo-Information -- 2.1 GeoStream. 3 Grappher - A Node-Based Editor for Pervasive Games -- 4 GhostChase - A Case Study -- 5 Adaptivity in GhostChase -- 6 Discussion -- 7 Conclusions and Future Work -- Acknowledgements -- References -- Dreadful Virtualities: A Comparative Case Study of Player Responsespg to a Horror Game in Virtualpg Reality and Flat Screen -- 1 Introduction -- 2 Theoretical Foundation -- 2.1 Horror -- 2.2 Embodied Emotions -- 2.3 Spatial Presence and Immersion -- 3 The

Game -- 3.1 Design and Implementation -- 4 Pilot Test -- 5
Experiment Design -- 5.1 Equipment -- 5.2 Questionnaire and
Interview Data -- 5.3 Game Metrics and Psycho-Physiological Measures
-- 6 Procedure -- 7 Data Analysis and Results -- 7.1 Questionnaire --
7.2 Interview -- 7.3 Sensor Measures and Game Metrics -- 8
Discussion -- 9 Conclusion -- References -- HapPull: Enhancement of
Self-motion by Pulling Clothes -- Abstract -- 1 Introduction -- 2
Related Work -- 3 System -- 3.1 System Configuration -- 3.2
Sensation -- 4 Experiment -- 4.1 Methods -- 4.2 Results and
Discussion -- 5 Conclusion -- Acknowledgements -- References --
Promoting Short-Term Gains in Physical Exercise Through Digital Media
Creation -- 1 Introduction -- 2 Productivity in Digital Exertion Games
-- 3 Music Composition Through Physical Exercise -- 4 Design -- 4.1
Drawing Through Physical Exercise -- 5 Discussion -- 6 Future Work
-- 7 Conclusion -- References -- Towards Player Adaptivity in Mobile
Exergames -- Abstract -- 1 Introduction -- 2 Player Adaptivity -- 3
User Profiling -- 4 Exergames and Serious Games -- 5 Context-Aware
Exergames -- 6 Estimating Player Effort -- 7 Grappher - A Node-Based
Editor for Pervasive Games -- 8 User Study -- 8.1 GhostStand - A
Mobile Virtual Reality Exergame -- 9 Experimental Setup -- 10
Conclusion -- Acknowledgements -- References.
A Hybrid Virtual-Augmented Serious Game to Improve Driving Safety
Awareness.

Sommario/riassunto

This book constitutes the refereed conference proceedings of the 14th International Conference on Advances in Computer Entertainment Technology, ACE 2017, held in London, UK, in December 2017. The 59 full papers presented were selected from a total of 229 submissions. ACE is by nature a multi-disciplinary conference, therefore attracting people across a wide spectrum of interests and disciplines including computer science, design, arts, sociology, anthropology, psychology, and marketing. The main goal is to stimulate discussion in the development of new and compelling entertainment computing and interactive art concepts and applications. The chapter 'eSport vs irlSport' is open access under a CC BY 4.0 license via link.springer.com.
