ICDVRAT-ITAG 2018 Conference Programme

Tuesday 4th September 2018 – Day One

09:00	Registration Opens	
09:15	Conference Open and Welcome	
	Plenary Session I: Serious Games for Education	
9:45	Pervasive Game Design to Evaluate Social Interaction Effects on Levels of Physical Activity Among Older Adults	Luciano Santos, Kazuya Okamoto, Shusuke Hiragi, Goshiro Yamamoto, Osamu Sugiyama, Tomoki Aoyama and Tomohiro Kuroda
	Moe the Monkey: A Fun Way to Educate Children	Ikram Asghar, Oche A Egaji, David Hinton and Mark Griffiths
	State Diagram for Affective Learning in an Educational Platform	Mohammad Taheri, David Brown, Penny Standen, Nasser Sherkat, Georgina Cosma and Caroline Langensiepen
	Why are Educational Robots Not Being Used in Special Education Schools Despite Proof That They are Beneficial for Their Students?	Maria Jose Galvez Trigo, Penny Standen and Sue Cobb
10:45	Refreshment Break	
11:15	Keynote Presentation I : NICER User Group	
	Plenary Session II: End User Involvement in Rese	arch
11:45	End-user involvement in Rehabilitation Virtual Reality Implementation Research: Benefits, Challenges, and Lessons Learned	Rachel Proffitt, Stephanie Glegg, Danielle Levac and Belinda Lange
	User-centred Design of an Active Computer Gaming System for Strength and Balance Exercises in Older Adults	Sarah Howes, Darryl Charles, Katy Pedlow, Iseult Wilson, Dominic Holmes, Geoffrey Chaponneau and Suzanne McDonough
12:30	Lunch Break (1 Hour)	
	Plenary Session III : Exposure Therapy	
13:30	iSenseVR - Toward A Low-Cost Virtual Reality Solution for Exposure Therapy in Busy Environments	Matthieu Poyade, Glyn Morris, Ian Taylor and Victor Portela
	An Exploratory Investigation Into The Potential Of Mobile Virtual Reality For The Treatment Of Paruresis – A Social Anxiety Disorder.	James Lewis, David Brown and Agni Paul
	Gradual And Shared Immersion In Virtual Reality Exposure Therapy	David Roberts, Alan Barrett and Alexandrous Landowska
	Short Paper Presentations A: Memory and Cognition	
14:15	Validity of the Internet-based Bill-Paying Task for assessing executive functions in adults with traumatic brain injury	Yael Nadler Tzadok, Rotem Eliav, Sigal Portnoy and Debbie Rand
	Open world memory game	Tibor Guzsvinecz, Balázs Ruzsonyi, Veronika Szűcs and Cecilia Sik Lanyi
	User Involvement in Virtual Reality Treatment Groups	Merve Dilgul
	Is It Necessary To Show Virtual Limbs In Action Observation Neurorehabilitation Systems?	Cristián Modroño, Sergi Bermúdez, Mónica Cameirão, Fábio Pereira, Teresa Paulino, Francisco Marcano-Serrano, Estefanía Hernández-Martín, Julio Plata-Bello, Nereida Palenzuela-Trujillo, Daniel Núñez-Padrón, José María Pérez-González and José Luis González-Mora
	The Feasibility And Initial Effectiveness Of TECH To Improve Cognition: Tablet Enhancement Of Cognition And Health Intervention	Noa Givon Schaham, Noam Donda, Hila Vitek, Inbal Elbo Golan, Zvi Buckman and Debbie Rand
	Virtual Shopping: Acceptance Of Immersive Virtual Reality In Diagnostic Of Memory Deficit In Elderly	Adéla Plechatá, Václav Sahula and Iveta Fajnerová
	Cognitive Impact Evaluation of Multimodal Interfaces for People with Visual Disabilities	Lana Mesquita, Jaime Sánchez and Rossana Andrade
	Design, Development, And Evaluation Of A Novel Mindfulness-Supporting VR Device	Luisa Procházková, Anna Francová, Barbora Šouláková, Nestor Caro, Iveta Fajnerová and Bernhard Hommel

	Literature Review And Design Concept To Read Bio-Data From Wearable Assistive Device And Synchronising It With Music To Support People Living With Dementia	Fehmida Mohamedali, Nasser Matoorian and Elahi Kani- Zabihi
	Towards Effective Cognitive Rehabilitation in Embodied Virtual Reality: Designing for Executive Dysfunction	Zack Lyons, Nigel Harris and Leon Watts
15:00	Refreshment Break	
	Short Paper Presentations B: Rehabilitation a	and Posture
15:15	Similarities Between Locomotion In Virtual And Real Environments: Implications For Rehabilitation	Michal Kafri, Patrice L Weiss, Gabi Zeilig, Moshe Bondi and Rachel Kizony
	Reflections On The Design And Development Of A Virtual Reality Mirror Therapy System For Upper Limb Stroke Rehabilitation	Joseph McKinney, Darryl Charles, Suzanne McDonough, Philip Morrow, Niamh Kennedy and Dominic Holmes
	The Effect Of Visual Feedback On Performance Of The Star Excursion Balance Test	Yi Wan, Jennifer L Davies, Kate Button and Mohammad Al- Amri
	Vestibular Rehabilitation Comparing Virtual Reality Therapy With Traditional Vestibular Physical Therapy	Pinata Sessoms, Kathrine Haluch, Dawn Bodell, Amanda Markham and Kimberly Gottshall
	Virtual Reality Reaching Exercise To Predict Upper Limb Motor Impairment	Diar Karim, Jack Evans, Sang-Hoon Yeo, Alan Wing and Chris Miall
	Tele-Rehabilitation For Stroke Survivors Pages (Pre-Action Games & Exercises)	Vince Macri, Paul Zilber, Douglas Simons and James Merrill
	The Role Of Social Interactions In A Multiplayer Context For Rehabilitation Games	Matthew Whitby, Peter Howell, Tom Garner and Coen De Weerd
	Reducing Clinical Subjective Discrepancies In Evaluation Of Clinical Technology Using Objective Measures	Joe Sarsfield, David Brown, Caroline Langensiepen, Nasser Sherkat, James Lewis and Penny Standen
	Towards Valence Detection From EMG For Virtual Reality Applications	lfigeneia Mavridou, Ellen Seiss, Mahyar Hamedi, Emili Balaguer-Ballester and Charles Nduka
	Mobile Biofeedback Low Cost Therapy Systems For Home, Outpatient And Institutional Rehabilitation Care	Jakub Petioky, Marketa Janatova, Karel Hana, Kristyna Hoidekrova and Andrea Velebna
	Plenary Session IV: Stroke/TBI	
16:00	A Low-Cost Kinect For Windows V2-Based Spatiotemporal Gait Analysis System. Efficacy Study With Healthy Subjects And Individuals With Stroke	Jorge Latorre, Carolina Colomer, Mariano Alcañiz and Roberto Llorens
	Exploring Materials And Object Properties In An Interactive Tangible System For Upper Limb Rehabilitation	Fábio Pereira, Sergi Bermúdez I Badia, Rúben Ornelas and Mónica Cameirão
	Traumatic Brain Injury With Comorbid Post Traumatic Stress Disorder Affects Performance On Virtual Reality- Based Balance Tasks	Marie Onakomaiya, Marcy Pape, Tricia Kwiatkowski, Douglas Brungart and Sarah Kruger
	Concurrent Virtual Rehabilitation Of Service Members Post- Acquired Brain Injury – A Randomized Clinical Study	Grigore Burdea Phd, Kevin Polistico, Namrata Grampurohit Phd Ot, Gregory H, Nam H. Kim Phd, Michelle Nordstrom Ot, Kiara B, Justin Murphy and Paul Pasquina Md
17:00	Networking, viewing demo stands and poster	'S
17:30	End of Day One	

Drinks Reception: Senate Chamber, Trent Building University of Nottingham

18:00

Drinks Reception to include lite bites with Real Ale: A chance to sample a selection of local products to include: Red Leicester and Stilton, Melton Mowbray Pork Pie, Lincolnshire Sausage Rolls with Bramley Apple Chutney. Served with half a pint of Legend Ale from Nottingham Brewery.

We are delighted to invite Professor Anne James Head of Computing and Technology at Nottingham Trent University and Dame Jessica Corner, Pro Vice Chancellor (Research and Knowledge Exchange) at the University of Nottingham to give a Welcome Address.

Wednesday 5th September 2018 - Day Two

08:45	Registration/Information Desk Opens	
09:00	Start of Day Two: announcements	
	Plenary Session V Cognitive impairment	
09:15	Strengthening Social-Emotional Skills For Individuals With Developmental Disabilities Through Virtual Reality Games	Tiffany Thang, Priya Bhattacharjee, Shirley Huang and Sri Kurniawan
	High-Functioning Autistic Children Programming Robotic Behaviour	Orly Lahav, Vadim Talis, Ravit Shelkovitz and Rona Horen
	Objective Assessment Of The Effect Of Blue-Tinted Spectacles On L-Dopa Induced Dyskinesia In A Patient With Parkinson's Disease.	Francesco Berti, Sarmad Aslam, Fiona Lindop and Rob Skelly
	Virtual Cubes In 3D Or 2D For Persons With Parkinson's Disease?	Imre Cikajlo, Dejana Zajc, Alma Hukić, Mateja Vesel, Irena Dolinšek and Karmen Peterlin Potisk
10:15	Refreshment Break	
	Plenary Session VI: Technology for Rehabilitat	ion
11:00	Augmented Rotations In Virtual Reality For Users With A Reduced Range Of Head Movement	Nahal Norouzi, Luke Bölling, Gerd Bruder and Greg Welch
	Providing A Means Of Pre-Planning For Real Spaces For The Visually Impaired Using Updated Navigation Techniques In Virtual Reality: A System And Experiment Proposal	Thomas Hughes-Roberts, Steven Battersby and David Brown
	F.R.A.M.E. (Facial Remote Activity Monitoring Eyewear) - Real-Time Patient Feedback Through Facial Expression Utilising Wearable Technology.	Philip Breedon, Paul Watts, Simon Clarke, Graeme Cox and Charles Nduka
	Towards Transformative VR Meditation: Synthesizing Nirvana Naturally	Henry Moller, Lee Saynor Saynor and Mark Chignell
12:00	Lunch (ISVR Board Meeting)	
13:15	Workshop: Bonnie Connor	
	Short Paper Presentations C User experience	
14:15	Qualitative Research Of An Innovative Virtual Reality Embodiment System: The Machine To Be Another	Sara Ventura, Ausias Cebolla, Rocio Herrero and Rosa Maria Baños
	Using Decision Theory For Analyzing Enrollment In A Scientific Study In The Health Area	Fábio Pereira and Eduardo Fermé
	Plausibility And Weight Classification Of 3D Avatars From Egocentric And Allocentric Perspectives. A Preliminary Study In Healthy Women	Sara Fonseca-Baeza, Adrian Borrego Gonzalez, Marta Miragall, Roberto Llorens and Rosa Baños
	Obesity Prevention Platform For The Promotion Of Healthy Eating Habits And Physical Activity.	Georgina Cardenas-Lopez, Emmanuel Castillo-Gómez and Demián Altamirano-Acosta
	Development Of Colour Vision Test Game For Android Devices	Veronika Szücs, Tibor Guzsvinecz, Daniel Bor and Cecilia Sik-Lanyi
	A New Generation Of The Computerized Visual Spatial Search Task (VISSTA) As An Authoring bool For Rehabilitation Assessment And Intervention	Samir Sangani, Asnat Bar-Haim Erez, Noomi Katz, Joyce Fung, Einat Kodesh and Racheli Kizony
	Designing For The Deaf: The Potential Of Technology Supported Social Skills Training Interventions For D/Deaf And Hard Of Hearing Students	Zoe Platt-Young, Bahareh Shahri, Zoe Hector, Dean Sutherland and Simon Hoermann
	Can Hendy's 4cs Model Help Engaging Learning-Disabled Students?	Mohamed Hendy
	Towards A Diagnostic Internet Of Medical Things: Sensor- Based Data For Sensory Deficits In Children With Autism	William Farr and Ian Male

	Caregiver Involvement Makes The Difference Between Repetitive Behaviours And Engaged Learning In A Computer- Assisted Therapy For Autism	Rosie Deane and Matthew Belmonte
	Creating Personae For Personalising A Visual Programming Tool For Children With Autism Spectrum Condition: A Proposed Methodology	Misbahu Zubair, David Brown, Thomas Hughes-Roberts and Matthew Bates
	Towards A Framework For Implementation Of Virtual Reality Technologies In Schools For Autistic Pupils	Nigel Newbutt and Sue Cobb
15:20	Refreshments	
15:45	Plenary Session VII: Healthcare Applications	
	Utilising Object Tracking For The Performance Analysis Of Difficult Airway Equipment - A Shape Retention Testing System (Srts)	Francesco Siena, Philip Breedon, James Armstrong, Paul Watts, Kristofor Inkpin, Andrew Norris and Phillipa Marsh
	Meaningful Change: Defining The Interpretability Of Changes In Endpoints Derived From Interactive And Mhealth Technologies In Healthcare And Clinical Research	Bill Byrom, Philip Breedon, Rauha Tulkki-Wilke and Jill Platko
	A User-Centred Design Approach To The Development And Evaluation Of A Mobile App As A Communication Aid For Deaf People Of Cyprus	Katerina Pieri and Sue Cobb
16:30	End of Day Two	
18:00	Conference Dinner: Murder Mystery Evening a Nottingham	t the <u>National Justice Museum</u> ,

You will be transported back to the Victorian era and play sleuth. The evening will begin in the magnificent Grand Jury Room, historically used by deliberating jury members. You will hear about the case of the evening before being set on your way down to the murkiest depths of the prison below to collect clues and speak to the suspects. The evening includes a sumptuous 3 course hot meal and culminates with a shocking revelation of 'whodunnit?!'

Thursday 6th September - Day Three

08:45	Information Desk Opens
09:00	Start of Day Three
09:05	Hackathon Feedback
10:00	Refreshment
10:30	ISVR AGM
11:00	Best Paper Awards and Prize Giving Prizes for: Best Student Papers Full and Short: Sponsored by Greg Burdea and Bright Cloud Best Paper Full and Short: sponsored by ISVR
11:30	Keynote II - Skip Rizzo: Director for Medical Virtual Reality Institute for Creative Technologies
12:30	Lunch
13:30	Official Close of ICDVRAT Conference