ICDVRAT Prague 2024 | Program

Presentation types:
- 🎤 Standard Podium Presentation (15 min)
- 💬 Short Poster Presentation (8 min)
- 🎤 CYBER Presentations PART 1+2 (12 min)
- 💬 CYBER Poster Presentations (5 min)
- 🎮 Pitch Presentation (5 min) & Demo Exhibition

First day – Tuesday, September 3

08:00 onwards	Registration of the attendees
08:45	Conference opening
09:00 – 10:25	**Cyberspace, Behavior and e-Therapy (CYBER) – Part 1** *Chair: Iveta Fajnerova*

- 🎤 Suriia Akhmetova &. Misgana Desalegne – *VR-based training for improvement of positive body image: A Pilot Study*
- 🎤 Urme Bose &. Bryan Hilanga – *A longitudinal exploratory study of neurophysiological reactions among young adults during psychometric testing*
- 🎤 Ling Zeng &. Maria Hashmi – *Multisensory Integration and Embodiment: A Virtual Reality-Based Study*
- 🎤 Laura Valentina Lesmes Castañeda &. Selin Saglam – *Gamification of a VR Task to Modify Attentional Bias Towards Body Parts Related to Weight*
- 🎤 Wu Panzifan &. Maria Castro – *Exposure therapy in Virtual Reality for children and adolescents with selective mutism: A usability pilot study*

10:25 – 10:45	Coffee break
10:45 – 12:30	**Cyberspace, Behavior and e-Therapy (CYBER) – Part 2** *Chair: Nicholas Shopland*

- 🎤 Prince Paul Appiah – *Predicting Dropout at an Innovative Tech-focused Vocational Education Program using Machine Learning*
- 🎤 Ilia Kulagin &. Daniel Velez Marin – *Exploring Verbal Speech Patterns to assess Attachment Style and tendencies towards Anxiety and Depression*
- 🎤 Javad Modaresi &. Rafael Paulino – *Avatar-Enabled Virtual Therapist Application for Cognitive Rehabilitation Intervention in Traumatic Brain Injury and Post-Stroke Patients*
- 🎤 Sadia Maqsood – *Cybersecurity Assessment and Training Simulator In Virtual Reality for Workplace Employees*
- 🎤 Fernanda Lima Pimentel &. Sandip Bhusal – *Assessing Oxygenation Changes using fNIRS in a Time-Pressure Task*
- 🎤 Oluwatobiloba Sodade &. Yusuf Sani – *Psychology of Frailty and Prediction of Fall among Elderly People Living in French Nursing Homes*

12:30 – 13:30	Lunch (provided)

First day – Tuesday, September 3 (continued)

13:30 – 14:00	**Welcome session** *Iveta Fajnerová, Jiří Horáček, Lenka Lhotská*
14:00 – 15:00	**Keynote talk: Professor Maria T Schultheis** *Chair: Bonnie Connor* ★ *"Technology & Cognition": Examining new trends and opportunities*
15:00 – 16:00	**Session 1: VR exposure - Trauma** *Chair: TBS* 🎤 Michael Roy – *Computer Monitor versus Augmented Reality: Expanding 3MDR Therapy for PTSD: A Randomized Controlled Trial (CARE4PTSD)* 🎤 Raúl Durón-Figueroa – *Development and Usability Evaluation of Virtual Environments for the Treatment of Post-Traumatic Stress Disorder in Earthquake Victims* 🎤 Albert Rizzo – *The Virtual Ukraine Project: Trauma Therapy in Warzones with Virtual Reality*
16:00 – 16:30	**Coffee break**
16:30 – 17:20	**Session 2: VR exposure – Anxiety disorders** *Chair: Albert Skip Rizzo* 🎤 Soledad Quero – *Overcoming traditional exposure treatments: Preliminary results from a Randomized Controlled Trial evaluating the efficacy of Projection-Based Augmented Reality Exposure Treatment for cockroach phobia.* 💬 Soledad Quero – *Enhancing exposure therapy effectiveness: projection-based augmented reality for specific cockroach phobia treatment compared to traditional treatment regarding stimuli variability.* 💬 Markéta Jablonská – *Design and Evaluation of Virtual Environments for Exposure Therapy of Aviophobia: Early Feasibility Study* 💬 Barbora Darmová – *Evaluating Virtual Scenarios through the Lens of the Contrast Avoidance Model in the Context of Generalized Anxiety Disorder Treatment*
17:20 – 18:20	**Cyberspace, Behavior and e-Therapy (CYBER) – Poster session** *Chair: Matthew Harris & Michal Sedlak* 💬 Jiayao Chen &. Suvechhaya Shrestha– *Enhancing Emotional Connection and Engagement in Long-Distance Relationships: A Comparative Study of Virtual Reality and Video Calls* 💬 Kátia dos Santos Estevães &. Abigya Melese – *Transforming perspectives: the impact of virtual embodiment on attitudes and responses to gender-based harassment in the metaverse* 💬 Vaishali Goyal &. Gustavo Menegon – *The temporal neural dynamics of aesthetic appreciation for visual art* 💬 Esra Bayısın &. Asmar Khalilli – *Using artificial intelligence to model cognitive load and adapt challenging tasks during immersions in virtual reality: Phase 1 – a literature review and study protocol for people diagnosed with schizophrenia* 💬 Nina Belousova, Mariam Barseguyan &. Vladimir Zyablov – *Psychological Impact of Breast Cancer and Premature Menopause: Digital Intervention Approach* 💬 Miltiadis Gialousis &. Diogo Gomes – *Psychological Trait Assessment Prior to Therapeutic Sessions using Open-Ended Questions* 💬 David Felipe Vega Villa &. Vaihbav Mehra – *Can an LLM-equipped Multimodal Chatbot adapted to psychological techniques improve Mental Wellbeing? A preliminary study description* 💬 Bruna Filipa Augusto da Silva, Jana Subirana &. Amir Ansari – *Enhancing Personality Assessment: From Self-Reported Questionnaires to Deep Learning Predictions*

Second day – Wednesday, September 4

09:00 – 10:20	**Session 3: Autism –** *Assessment Tools & Participatory Design* *Chair: William Farr & Bonnie Connor*
	🎤 Isaac Lee – *Can an LLM AI-Augmented ADI-R Improve Diagnostic Pathways and Educational Outcomes for Autistic Individuals?*
	🎤 William Farr – *External Fine Motor Markers of Neurodivergence: Pilot Results of the TangiBall*
	🎤 Sean Haddick – *Through The Eyes of An Autistic Child: The Role of Technology and Autistic Researchers in Developing Interventions*
	🎤 Pascal Meital – *Online Course for Autistic Adults: Usability Study and Participatory Design*
10:20 – 10:50	Coffee break
10:50 – 11:30	**Session 4: Autism –** *Social Skills & Public Transport* *Chair: William Farr*
	🎤 Ali Adjorlu – *Virtual Station: Virtual Reality as a Bridge to Independence in Public Transportation for Autistic Youth*
	💬 Ali Adjorlu – *Enhancing Social Skills in Autism Spectrum Disorder: A Virtual Reality Intervention for Educational Settings*
	💬 Sean Haddick – *Metahumans: A Framework for Assessment and Feedback of Social-Emotional Reciprocity*
11:30 – 12:10	**Session 5: VR exposure - Varia** *Chair: James Lewis*
	🎤 Muhammad Arifur Rahman – *Optimizing VRET: EEG data for ML Models with Real-Time Biofeedback*
	🎤 Martina Janíková – *Virtual environment for exposure therapy of obsessive-compulsive disorder enriched with olfactory stimuli: A pilot study*
12:10 – 13:10	Lunch (provided)
13:10 – 14:10	**Keynote talk: Mónica Spínola** **Penny Standen Best Early Career Paper Award Winner 2022** *Chair: Iveta Fajnerová & David Brown*
	★ *Functional Neuropsychological Assessment: past, present and future.*
14:10 – 15:30	**Session 6: Pain & Palliative** *Chair: Sara Ventura*
	🎤 Anna Zubková – *The use of experiential VR to minimize anxiety in children with life limiting condition: A Randomized Control Trial*
	🎤 Martin Zielina – *Virtual Reality in Burn Treatment: A Comparative Study of High and Low Immersion Approaches on Pain and Anxiety Relief*
	🎤 Alexander Moreno – *Preliminary results of a systematic review of the use of virtual reality in palliative care*
	🎤 Carolyn Thomas – *Existential Biophilic VR Therapy – Developing a Protocol for Care Settings*
15:30 – 16:00	Coffee break
16:00 – 17:10	**Session 7: Cognition & Spatial Navigation** *Chair: Cecilia Sik-Lanyi & Renáta Cserjési*
	🎤 Suhani Dheer – *Beyond Diagnosis: The Cognitive Demands of Stopping and Turning Behaviors Among Drivers With and Without Multiple Sclerosis and Implications for Driving Safety*
	🎤 Matthew Harris – *Exploring the potential of using a Spatial Navigation Task to measure cognitive decline in adults with intellectual disabilities*
	🎤 Kathryn N. Devlin – *Virtual Reality Driving Simulation May Enhance the Prediction of Real-World Unsafe Driving*
	💬 Mochammad Hannats Hanafi Ichsan – *Navigation in 3D Virtual Environment for Older Adults*

Second day – Wednesday, September 4 (continued)

17:10 – 18:00	**Session 8: Emotions** *Chair: Sean Haddick*
	🎙 Alex Sumich – *Beneficial effects on subjective mood and brain function of biophilic quality in university environments shown in virtual reality*
	🎙 Jiří Pešek – *Assessing emotional memory in VR*
	💬 Raissa de Oliveira Negrao – *Exploring Emotional Responses to Virtual Reality Environments in Younger Adults*
19:30 – 23:00	Social evening & dinner - *see Program Specials for details*

Third day – Thursday, September 5

09:00 – 10:15	**Session 9: Education** *Chair: David Brown*
	🎙 Iveta Fajnerová – *Experiential Learning Game Simulating Symptoms of Mental Disorders*
	🎙 Thomas Hughes-Roberts – *Enabling Creativity through Game Making for the Socially Marginalised: Co-Designing a Game Making Toolkit*
	🎙 Teresa Souto – *What happened after ethical decision-making training went virtual: some features about VREthics Application*
	💬 Adam Novotník – *Method of Loci and PEG system in VR as learning method for patients with ADHD*
	💬 Cecilia Sik-Lanyi – *Modelling realistic avatars for the "P-game" negotiation game*
10:15 – 10:45	Coffee break
10:45 – 12:00	**Session 10: Rehabilitation** *Chair: Pedro Gamito*
	🎙 Ian Male – *What stops therapists from using virtual reality in paediatric acquired brain injury upper limb rehabilitation?*
	🎙 Emil Rosenlund Høeg – *Exploring therapists' technology acceptance of virtual reality bike-based rehabilitation: A longitudinal study*
	🎙 Philip Breedon – *Development of an immersive Virtual Reality (VR) system to improve the quality of rehabilitation for paediatric Ataxia Telangiectasia (A-T) patients*
	🎙 Gianluca Sorrento – *Conditions for inducing freezing of gait in Parkinson's disease freezers on a split-belt treadmill in a virtual environment*
12:00 – 13:00	Lunch (provided)
13:00 – 14:00	**Keynote talk: Professor Mariano Alcañiz** *Chair: Pedro Gamito*
	★ *Could Embodied Conversational Agents Be the Future for Assessment and Interventions in Clinical Psychology?*
14:00 – 15:00	**Session 11: Design Ideas** *Chair: Emil Rosenlund Høeg*
	🎙 Sharon Mozgai & Albert Rizzo – *Virtual Humans in Mobile Health (mHealth) Applications: Designing for increased user-engagement and adherence*
	💬 Michal Sedlák – *Feasibility of using OCD exposure therapy application with VR omnidirectional treadmill: A study protocol*
	💬 Tereza Langová – *Virtual Reality Games for Lying Patients*
	💬 Hanan Namrouti – *Comparison Between 2D and 3D Icons as Menus in Virtual Reality Assessing the Usability of the Menus and User Satisfaction*
	💬 Hyosun Kweon – *VR based Community Reintegration Contents Design: Focusing on mobility activities*
15:00 – 15:30	Coffee break
15:30 – 16:10	**Session 12: Sexology** *Chair: Iveta Fajnerová*

	🎤 Ali Adjorlu – *Virtual Sex Therapy: A virtual Psychotherapy Intervention to Help Individuals with Sexual Dysfunction Difficulties*
	🎤 Ondřej Vaníček – *Female sexual response to audiovisual stimuli in 2D/3D modality and first/third person perspective*

16:10 – 17:10	**Company panel discussion** *Chair/ Moderator: Albert Skip Rizzo*
	💡 Amir Bozorgzadeh (CEO) – *VirtuLeap*
	💡 Giorgio Koppehele (Head of Content, Founder, CEO) – *Magic Horizons*
	💡 Stephane Bouchard (President and CEO) – *In Virtuo*
	💡 Jan Hrdlička (Co-Founder and CEO) – *ComGuide*

17:10 – 19:00	**Company presentations & demos with catering** *Chair: Ali Adjorlu & Iveta Fajnerova*
	🎮 Bogusława Łysakowska-Będek (Technomex) – *X Visio PRO - Therapy in Virtual Reality*
	🎮 Marie Němcová (VR LIFE s.r.o.) – *VR Vitalis Pro*
	🎮 Gareth Walkom (withVR) – *Therapy withVR Research withVR*
	🎮 Martin Zielina & Zbyněk Pohořelský (VRSPACE) – *VR burns*
	🎮 Jan Hrdlička & Jiří Wild (ComGuide) – *Virtual Reality for Practicing Difficult Conversations in Healthcare*
	🎮 Karina Zamrazilova, Michal Vavrecka (CIIRC CTU) – *Natural Human-Robot Interaction*
	🎮 Iveta Fajnerová (VR centre NIMH) – *Virtual Reality for psychotherapy in anxiety disorders and OCD*

Fourth day – Friday, September 6

09:00 – 10:00	**Session 13: Cognition - Varia** *Chair: Orly Lahav*
	🎤 Kinga Nedda Pete – *Immersive virtual reality experiences for the improvement of attention in post-COVID-19 condition*
	🎤 Soma Zsebi – *The assessment of the cognitive profile of elderly individuals using Virtual Reality: A comparison between experienced and inexperienced users*
	💬 James Lewis – *The use of the Meta Quest as a tool for ADHD screening through a self administered immersive test of attention and activity*
	💬 Karolína Zuzánková – *Virtual environment aiming to train cognitive flexibility in patients with Obsessive – Compulsive Disorder*

10:00 – 10:20	Coffee break

10:20 – 11:20	**Session 14: Relaxation & Nature** *Chair: Mufti Mahmud*
	🎤 Lukáš Hejtmánek – *It's Not All About the Graphics: Finding Calm in Stylized Digital Forests*
	🎤 Ágnes Karolina Bakk – *Designing Nature Simulated VR Applications for Hospitalized Seniors*
	🎤 Patrícia Szabó – *Design virtual reality games that instruct proper breathing techniques with dynamically changing virtual environment*

11:30 – 12:00	Coffee break / small lunch
12:00 – 13:00	**Best paper award ceremony and closing remarks** *Chair: Iveta Fajnerová & David Brown **& Paul Sharkey***
13:00 – 14:00	**Cyberspace, Behavior and e-Therapy (CYBER) – Diploma ceremony** *Chair: Pedro Gamito*
14:00	**Goodbye ceremony**