The 18th ACM International Conference on PErvasive Technologies Related to Assistive Environments PETRA 2025

Program

June 25 – June 27, 2025, Corfu, Greece

Organized by

University of Texas at Arlington, Arlington, Texas, USA

With sponsorship from



University of Texas at Arlington, Arlington, Texas, USA The National Science Foundation (NSF), USA The College of Engineering, University of Texas at Arlington (UTA), USA The Department of Computer Science and Engineering at UTA, USA The Human Centered Computing Laboratory (Heracleia) at UTA, USA Association for Computing Machinery (ACM-ICPS Digital Libraries)

Welcome to Petra 2025

Dear Friends and Colleagues,

On behalf of the PETRA Program Committee, we welcome you to the 18th ACM International Conference on **PErvasive Technologies Related to Assistive Environments,** PETRA 2025, taking place June 25- June 27, 2025, on the majestic island of Corfu, Greece. PETRA is an interdisciplinary conference with a focus on pervasive technologies that improve the quality of life and enhance human experience and performance in a wide range of settings, in the workplace, at home, in public spaces, urban environments, and others. Scientific results range from basic research in computer vision, machine learning, data mining, human-robot interaction, and big data, to engineering applications in robotics, sensors, devices, wearables, and software solutions that address physical, cognitive, and mental human performance and monitoring. The conference addresses the needs of both healthy individuals and people with special needs. Like previous years, the US National Science Foundation (NSF) has supported the conference with a Doctoral Consortium (DC) award that offers support to student authors of accepted papers. PETRA 2025 distinguishes papers with three types of awards: Best Paper Award, Best Workshop Paper Award, and Best Poster Award. We hope PETRA 2025 offers inspiring opportunities to showcase your research, spark collaboration, and network. We appreciate your participation and wish you a happy summer. PETRA 2025 Organizing Committee

Invited Speakers

Day 1



Day 2



Dr. Jens Gerken holds the chair of Inclusive Human-Robot Interaction at TU Dortmund University, Germany. Over the last 10 years, Prof. Gerken has gained extensive experience in the context of physically assistive robots for people with motor impairments. In particular, he has been concerned with interaction and visualization design, transferring findings from Human-Computer Interaction, CSCW, and Information Visualization to Human-Robot Interaction research. Most recently, the work of his group has focused on shared control approaches to increase the feeling of autonomy and competence for users.

keeping humans out of harm's way.

Dr. Manolis Chiou is an Assistant Professor in the School of Electronic

Engineering and Computer Science at Queen Mary University of London and an honorary research fellow at the University of Birmingham. Prior to this, he led the Human-Robot Teaming group at the Extreme Robotic Lab at the University of Birmingham. He received his Ph.D. from the School of Computer Science, University of Birmingham in 2017. His work aims to advance Human-Robot Teaming by combining AI, Human-Robot Interaction, and human factors, enabling humans and robots to cooperate efficiently using their complementing capabilities to achieve shared goals. He is particularly interested in variable autonomy robotic systems with a human-in-the-loop deployed in hazardous or remote environments,

Day 3



Dr. Hong Jiang is Chair and Wendell H. Nedderman Endowed Professor of Computer Science and Engineering at the University of Texas at Arlington. Before joining UTA, he was a Program Director at National Science Foundation (2013.1-2015.8) and at University of Nebraska-Lincoln since 1991, where he was Willa Cather Professor of Computer Science and Engineering. He has graduated 20 Ph.D. students and supervised more than 20 post-doctoral fellows and visiting scholars. His present research interests include computer architecture, computer storage systems and parallel I/O, high-performance computing, big data computing, cloud and edge computing. He is a Topic and Associate Editor of the IEEE Transactions on Computers. He has over 350 publications in major journals and international Conferences in these areas. Dr. Jiang is a Fellow of IEEE, and Member of ACM.

Organizing and Technical Arrangements Committee Fillia Makedon (Conference Chair) – University of Texas at Arlington, USA Farnaz Farahanipad, (Conference Program Coordinator), University of Texas at Arlington, USA **Program Committee Chairs** Anastasios Doulamis (PC Chair) Maria Kyrarini (Associate Chair) - Santa Clara University, USA **Program Committee** Maher Abujelala - Exact Sciences Corporation, USA Ashish Jaiswal – Meta, USA Qiyuan An - Uber, USA Oliver Korn - Offenburg U., Germany Vassilis Athitsos - U. of Texas at Arlington, (UTA) USA Dean Krusienski - Virginia Commonwealth U., USA Maria Kyrarini - Santa Clara U., (SCU) USA Ashwin Ramesh Babu - Hewlett Packard Enterprise, USA Margrit Betke - Boston U., USA Asterios Leonidis - University of Crete and Foundation for Research and Technology - Hellas (FORTH) Gerald Bieber – Fraunhofer, Computer Graphics IGD, Germany Bruno Bouchard – U. of Quebec at Chicoutimi, Canada Ahmad Lotfi - Nottingham Trent U., United Kingdom Ismini Lourentzou - University of Illinois Urbana-Fatemeh Davoudi - Santa Clara University. USA Champaign, USA Sanika Doolani- San Francisco State University, USA Fillia Makedon– U. of Texas at Arlington, (UTA) USA Anastasios Doulamis - National Technical U. of Athens, Greece Vangelis Metsis - Texas State University, USA Nikolaos Doulamis - National Technical U. of Athens, Greece Charles Owen – Michigan State University, USA Eleni Efthimiou - Athena Research Center, Greece Akilesh Rajavenkatanarayanan – General Motors, USA Randa Elanwar - *Electronics Research Institute*, *Egypt* Konstantinos Tsiakas – TU Delft, Netherlands Nelly Elsayed - University of Cincinnati, USA Timo Gotzelmann – Nuremberg Inst. of Technology, Germany Farnaz Farahanipad – U. of Texas at Arlington, (UTA) USA Nicholas Gans – U. of Texas Research Institute, USA Alexandros Lioulemes - Worcester Polytechnic Inst. (WPI), USA

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Administration and Financial Management

Sherri Gotcher - Department of CSE Administrator, U. of Texas at Arlington, (UTA) USA

CONFERENCE DAY 1

08:30- 09:30	Conference Registration		
07.50	Room 1 (Kerkyra Ballroom)		
09:30- 09:50	Conference Opening & Welcome Fillia Makedon, Conference Chair, University of Texas Arlington, USA		
09:50- 10:50	Invited Talk Presenter: Manolis Chiou, Queen Mary University of London Towards Transdisciplinary Human-Robot Teaming Session Chair: Maria Kyrarini		
	Room 1 (Kerkyra Ballroom) Room 2 (Nausica Ballroom)		
11:00- 12:10	 Session A: Accessibility Tools, Methods and Applications Session Chairs: Maria Kyrarini A-1 Online symposium with tactile 3D model: its general efficacy as a media for the visually impaired (12 + 3 min) Kazunori Minatani, Tetsuya Watanabe and Masakazu Iwamura A-2 Speech therapy platform with automatic assessment of verbal responses (12 + 3 min) Evanthia Faliagka, Manos Plitsis, Kosmas Palios, Nassos Katsamanis, Spyridoula Stamouli, Athanasia-Lida Dimou, Christos Panagiotou, Dimitris Karadimas, Christos Antonopoulos, Nikolaos Voros and Vassilis Katsouros A-3 Extending Assistive Technology for Students with Visual Impairment and Blindness (10 + 2 min) Janine Buchholz, Kevin Fischer, Maximilian Breibach, Dietrich Paulus A-4 Implementation of Functional Requirements and Operational Support of the Audiobook Web Library of the Lighthouse for the Blind of Greece (8 min) Apostolos Meliones and Sotirios Bikos 	 Session B: Assistive Robotic Systems and Human-Robot Interaction Session Chairs: Manizheh Zand B-1 Appearance Matters: Insights from Co-Design and Evaluation of Social Assistive Robots (12 + 3 min) Sebastian Pimminger, Werner Kurschl, Johannes Schoenboeck and Gerald A. Zwettler B-2 Indoor Turn-By-Turn Navigation Assistance for Robotic Rollators (12 + 3 min) Polihronis-Panagiotis Drakopoulos, George Moustris, Costas Tzafestas and Petros Maragos B-3 Assistive Robots for Older Adults: A Human-Robot Interaction Study (12 + 3 min) Manila Caragiuli, Agnese Brunzini, Chiara Massera, Mara Candelari and Michele Germani B-4 Integrating Ontology with Deep Reinforcement Learning: A Formal Framework for Explainability in Robotic Applications (10 + 2 min) 	
12:10- 13:15	 Session C: Human Affect, Physiology and BioSignal Analysis Session Chair: Maria Kyrarini C-1 Detecting Industrial Boredom: An In-the-Wild Study of Monotonous Manufacturing Work Using Physiological Signals (12 + 3 min) David Kostolani, Dominik Pülke and Sebastian Schlund C-2 Cognitive Fatigue Assessment for Human-Robot Collaboration: Review & Open Challenges (12 + 3 min) Manizheh Zand, Sally Wood, Fatemeh Davoudi and Maria Kyrarini C-3 Implementation and Experimental Evaluation of an Assistive Articulated Probe Algorithm (12 + 3 min) Korey Pickering, Ovidiu Daescu and Ka Yaw Teo C-4 A Robust EEG Brain-Computer Interface Approach for Decoding Hand and Foot Motor Imagery (8 min) Mohamed A. Hanafy, Saykhun Yusufjonov, Djaykhun Yusufjonov, Payman Sharafianardakani, Madan M Rayguru and Dan O. Popa 	 Session D: Activity Recognition, Human Tracking and Localization Session Chairs: Ayon Roy, Mahfuza Siddiqua D-1 PAVES: Pneumatic and Vibrotactile Enhanced Shoes for terrain simulation in virtual environments on a treadmill (12 + 3 min) Marco Gabrecht, Chenwei Huang and Denys J.C. Matthies D-2 Can Eye-Tracking Accurately Detect Human Intentions in Assembly Tasks to Enhance Human-Robot Interaction? (12 + 3 min) Paul André, Maxence Grand, Damien Pellier and Francis Jambon D-3 Augmented Reality-Assisted Assessment of Workplace Ergonomy (12 + 3 min) Enes Yigitbas and Julian Karch D-4 CretaDance: A methodology for preserving Cretan folk dances through digitization and semantic annotation (8 min) Ioanna Barmpounaki, Emmanouil Zidianakis, Eirini Kontaki, Maria Chnaraki, Aldo Xhako and Constantine Stephanidis 	

13:15- 14:25	Lunch Break (Lunch tickets can be obtained at the hotel front desk) Lunch is included for registered conference participants staying at the main venue during the conference; if at other hotels, please contact the hotel front desk.	
1.1.20	Room 1 (Kerkyra Ballroom)	Room 2 (Nausica Ballroom)
14:25- 15:30	 Session E: Multimodal Interfaces and Human-Computer Interaction Session Chair: Manizheh Zand E-1 Immersive Smart Home Planning and Automation with Mixed Reality and Digital Twin Technologies (12 + 3 min) Enes Yigitbas and Julian Karch E-2 Perceptions of Blind Adults on Non-Visual Mobile Text Entry (12 + 3 min) Dylan Gaines and Keith Vertanen E-3 Identifying the Desired Word Suggestion in Simultaneous Audio (12 + 3 min) Dylan Gaines and Keith Vertanen E-4 ElderMind: A Mobile Application for Cognitive Stimulation and User Engagement (12 + 3 min) Arsénio Reis, João Barroso and Tânia Rocha E-5 Predicting Text Selection Time and Effort on Smartphones from Selection Characteristics (8 min) Gulnar Rakhmetulla and Ahmed Sabbir Arif 	 Session F: Pattern Recognition in Assistive Technology Applications Session Chair: Farnaz Farahanipad F-1 Unlearning with Partial Label Learning (12 + 3 min) Jörn Bach, Alexander Grohsjean, Christian Schwanenberger and Peer Stelldinger F-2 Enhancing Photoplethysmography-Based Fine-Grained Hand Gesture Detection for Assistive Technologies Supporting Autonomy (12 + 3 min) Habba'S Ngodjou Doukaga, Yan Bélanger, Pascal Fortin, Julien Maitre and Bruno Bouchard F-3 Method to Determine Most Sensitive and Accurate Mediapipe Face-Mesh Keypoints for Speech Therapy Exercises (10 + 2 min) Rica Schulze, Sabrina Schröder, Verena Uslar, Dirk Weyhe and Sebastian Fudickar F-4 Using Confidence Scores to Improve Eyes-free Detection of Speech Recognition Errors (8 min) Sadia Nowrin and Keith Vertanen Confidence Scores (8 min) Sadia Nowrin and Keith Vertanen Confidence Scores (8 min) Sadia Nowrin and Keith Vertanen Confidence Scores (8 min) Sadia Nowrin and Keith Vertanen Confidence Scores (8 min) Sadia Nowrin Schulze, Sabrina S
15:30- 16:30	I -1 Voice Commands for Guidance to a 5D 1 ostion. To Concer Spontaneous Data, Anali frenzy, Christian Gran, Solange Rossalo, 3050-Ernesto Concer Dataeras and	
	 Workshop W1: AIR: Assistive and Intelligent Robotics in Household and Workplace Environments Session Chair: Maria Kyrarini W1-1 An Adaptive Robotic Framework for Assisting People with Paralysis in Daily Living Activities (12 + 3 min) Enamul Karim, Maisha Maimuna, Ayon Roy, Minhaz Bin Farukee, Gaurav Nale, Fillia Makedon W1-2 Can Virtual AI Agents Improve Cognitive Assessment? A Virtual Reality Perspective (12 + 3 min) Aref Hebri, Hamza Reza Pavel, Sama Nikanfar, Farnaz Farahanipad, Fillia Makedon W1-3 A Survey on Assistive Technologies for Visually Impaired Individuals: Recent Innovations, Limitations, and Future Directions (12 + 3 min) Sama Nikanfar, Aref Hebri, Harish Ram Nambiappan, Gaurav Nale, Mahfuza Siddiqua, Farnaz Farahanipad and Fillia Makedon 	C

End of Day 1 of the PETRA conference

CONFERENCE DAY 2

	Kerkyra Ballroom		
09:0	Invited Talk Presenter: Jens Gerken, Associate Dean for Research, TU Dortmund University, Germany		
09.0	Duraneing fields field find find field find for the being		
	Room 1 (Kerkyra Ballroom) Room 2 (Nausica Ballroom)		
09:5 11:0	 Session Chair: Yasushi Kambayashi W2-1 Effectiveness of Sub-MSH Size Pruning in BCP Based ILP, (12 + 3 min) Tomo Nakazawa, Tsutomu Kumazawa, Yasushi Kambayashi and Munehiro Takimoto W2-2 Rent Price Prediction Using Machine Learning with Public Land Price, 	 Session H: Wearable Systems and Monitoring Devices Session Chair: Farnaz Farahanipad H-1 Automated Competency Assessment in Pilot Training based on Behavior Modeling of Flight Performance and Visual Attention (12 + 3 min) Andreas Fermitsch, Peter Fritz, Christian Thomay, Benedikt Gollan, Christian Norden and Carsten Mangasser H-2 ThermoQueeze: A Wearable Actuator for Simultaneous Squeeze and Thermal Feedback (12 + 3 min) Yunxiao Wang, Robert Rosenkranz, M. Ercan Altinsoy and Likun Fang H-3 A Transformer-Based Framework for Greek Sign Language Production using Extended Skeletal Motion Representations (12 + 3 min) Chrysa Pratikaki, Panagiotis Filntisis, Athanasios Katsamanis, Anastasios Roussos and Petros Maragos H-4 Evaluating Tap, Flick, Force, and Wrist Gestures for Interacting with Vertical Displays via Smartwatch (8 min) Yuan Ren, Ahmed Sabbir Arif \$\$\$\$ 	
11:00	N/2 7 Multi Agout Simulation of Medaum Human Dianonal or a Dielegiaal	 Workshop W3: SOCIO-NLP: Social Development through NLP-driven Interdisciplinary Collaborations Session Chair: Mustafa Ocal W3-1 Leveraging Language Modeling and Dynamic Social Network Analysis to recognize Patterns in the Spread of COVID-19 Misinformation Narratives on Social Media (12 + 3 min) Caleb Stam, Emily Saldanha, Mahantesh Halappanavar and Anurag Acharya W3-2 Unmasking Propaganda: A Comparative Analysis of Masked and Causal Language Models (12 + 3 min) Claudiu Creanga, Liviu Dinu and Ioachim Lihor W3-3 Automatically Identifying Victim Blaming on Social Media in cases of Sexual Assault, Sexual Harassment and Abuse (12 + 3 min) Anca Dinu and Ana Maria Niculescu W3-4 Evaluation and Analysis of Low-socioeconomic Student Narratives: Linguistic, Sentiment, and Topic Modeling Insights (12 + 3 min) Nahed Abdelgaber, Labiba Jahan, Jia Zhang W3-5 The Language of Influence: Sentiment, Emotion, and Hate Speech in State Sponsored Influence Operations (10 + 2 min) Ashfaq Ali Shafin and Khandaker Mamun Ahmed 	
12:13 13:2		in be obtained at the hotel front desk)	
15.2	(Lunch is included for participants staying at the main venue during the conference; if at other hotels, please contact the hotel front desk).		

13:20- 14:30	 Session I Pervasive Systems for Smart Health Devices Session Chair: Denys Matthies I-1 Optimization and Validation of a 2D-LiDAR-Coverage Algorithm (12 + 3 min) Noel D'Avis and Silvia Faquiri I-2 Technical Analysis for Electro-Sensory 3D Foot Scanning in a Shoe (12 + 3 min) Denys J.C. Matthies, Maximilian Kasbohm, Gerald Bieber and Troy Nachtigall I-3 Assistive Technology for Neurological, Geriatric, and Pediatric Bladder Care: A Low-Power Wearable Ultrasound Solution (8 min) Rouzbeh Molaei Imenabadi, Katherine G. Brown and Dinesh Bhatia 	 Session J: Reasoning Systems and Machine Learning for Assistive Environments Session Chair: Daniele Riboni J-1 Integration of Retrieval-Augmented Generation technique for LLM-based differential diagnosis assistant (12 + 3 min) Simone Pinna, Silvia Maria Massa, Matteo Fenu, Giulio Casti and Daniele Riboni J-2 Design and Development of an Interactive AI Toolkit for Engaging Older Adults in AI Discussions (12 + 3 min) Paula Kelly, Emma Clarke, Mayank Parmar, David Powell, Martin Lynch, Shane Ormonde, Keith Colton, Finbarr O'Meara, Dympna O'Sullivan and Damon Berry J-3 Finetuning LLMs for Grammatical Error Correction in English and Greek Texts
	I-4 Towards Accounting for Nonhuman Agency in Technology Design for Aging (8 min) Alisha Pradhan, Shaan Chopra, Pooja Upadhyay, Robin Brewer and Amanda Lazar	(8 min) Dimitrios Koutsomitropoulos J-4 Exploring Developer Trust, Adoption, and Usage of AI-Powered Coding Assistants for Web Accessibility (7 + 2 min) Pooja Patel and Edward Melcer
14:30- 15:00	Coffee Break (Please remember to bring coffee coupons)	
15:00- 16:15	 Workshop W4: PerInt: 7th Workshop on Pervasive Intelligence in Engineering Session Chair: Charalampos Zafeiropoulos W4-1 AI-BEMS: Integrating Smart Readiness Indicator into AI-Driven Building Energy Management Systems as a Decision Support Framework for Optimal Service Selection (12 + 3 min) Sotirios Athanasoulias, Spiros Chadoulos, Athina Katsari, Stelios Kalogridis, Nikolaos Ipiotis and Matthaios Bimpas W4-2 Pre-Clinical Results of the Impact of Blue-Green Urban Solutions on Humans' Health (12 + 3 min) Aikaterini Angeli, Anastasios Doulamis, Nikolaos Doulamis, Anastasios Temenos, Charalampos Zafeiropoulos, Nikolaos Bakalos and Andreas Lazaris W4-3 A Secured Photonic Device for Early Prediction and Prognosis of Diabetic Foot Ulcers using Thermal and Hyperspectral Sensing- Results from a Clinical Study (12 + 3 min) Aikaterini Angeli, Nikolaos Doulamis, Charalampos Zafeiropoulos, Ioannis Rallis and Andreas Lazaris W4-4 A Multimodal Causal-Inspired Approach towards Affect Modeling (12 + 3 min) Kevin Farrugia, Athanasios Papathanasiou, Konstantinos Makantasis 	 Workshop W5: INCTECH: Inclusive technology - making work more accessible and sustainable with innovative technologies: from development towards implementation Session Chair: Kim Kranenborg W5-1 Knowledge retention through cognitive support technology (CST) in the manufacturing industry: a process inventory (12 + 3 min) Thomas Stege, Selin Çolakhasanoglu, Koen Nijland, Etto Salomons, Danny Plass-Oude Bos and Sjoerd De Vries W5-2 A Preliminary Evaluation of Generative AI Tools for Blind Users: Usability and Screen Reader Interaction (12 + 3 min) Barbara Leporini, Marina Buzzi, Giuseppe Della Penna W5-3 Cognitive Support Technology: Enhancing Self-Efficacy in Workers with Impairments (12 + 3 min) Ellen Wilschut, Reinier Könemann, Michiel de Looze, Astrid Hazelzet, Kim Kranenborg W5-4 Enhancing the Adoption of Inclusive Technologies in the Workplace (10 + 2 min) Ellen Wilschut, Reinier Könemann, Michiel de Looze, Astrid Hazelzet and Kim Kranenborg
16:15- 17:35	 Session K: Human-Centered Interaction and Technologies Session Chair: Eleonora Buiatti K-1 Optimizing Exergames Integration in the 5P Framework to Promote Physical Activity among People with Schizophrenia (12 + 3 min) Fructueux Jefferson Yedomon, Yannick Francillette and Bob-Antoine Jerry Ménélas K-2 Smarter Than Smart: Human-Centered Perspectives on Home Technologies (12+3 min) Eleonora Buiatti, Valeria Orso, Luciano Gamberini K-3 A Novel Concept using Mirror Displays for Ambient User Notifications (12 + 3 min) Timo Götzelmann, Pascal Karg and Mareike Müller K-4 Enhancing eBook Accessibility: Exploring 2D Tactile Displays for Blind and Low-Vision Readers (8 min) Sara Alzalabny, Hans Mees, Karin Müller, Thorsten Schwarz, Bastian Rapp and Rainer Stiefelhagen 	 Session L: Data-Driven Insights and Intelligent System Design Session Chair: Ayon Roy L-1 COVID-19 and Flu Data Visualizer: An Interactive Tool for Visualizing Pandemic and Influenza Data Across U.S. Counties (8 min) Mohammad Shaito, Leonidas Fegaras and David Levine L-2 Self-Supervised Deep Visual Stereo Odometry with 3D-Geometric Constraints (8 min) Juri Zach and Peer Stelldinger L-3 Enhancing Text Entry for Users with Motor Impairments: Design and Evaluation of KeyGlide (8 min) Farid Karimli and Margrit Betke L-4 Informing Human Decision-Making in Public Administration through NLP Algorithm Audits, (8 min) Daniel Fonner and Frank Coyle L-5 Generalized Follow-Up WHODAS 2.0 Assessment Through Language Models and Adaptive Clustering Ensemble in Higher Education (8 min) Rakshil Kevadiya, Abbas Akkasi, Kathleen C Fraser, Boris Vukovic, Jessie Gunnell, Sonia Tanguay and Majid Komeili

	Signers (8 m	rdisciplinary Approach to Sign Language Data Set Collection of Native nin) Miguel Rodríguez-Mondoñedo, Francisco Cerna-Herrera, César Ramos, rnaiz, Ana Rosa Moreno, Joe Huamani-Malca and Gissella Bejarano
19:30-	La Veranda Cocktail Reception	
22:00	(In-person registered members, please remember to bring cocktail reception coupons, €50 per accompanying person)	

(In-person registered members, please remember to bring cocktail reception coupons. €50 per accompanying person)

End of Day 2 of the PETRA conference

CONFERENCE DAY 3

Room 1				
Invited Talk Presenter: Hong Jiang, Wendell H. Nedderman Endowed Professor and Chair				
09:30- Department of Computer Science and Engineering, University of Texas at Arlington, USA				
10:30 An SLO-Aware Approach to Efficiency for Multi-tenant Da				
Session Chair: Fillia Makedor	Session Chair: Fillia Makedon			
	Coffee Break and Awards			
10:30- Session Chair: Farnaz Farahanipad, Conference	8			
Room 1 (Kerkyra Ballroom)	Room 2 (Nausica Ballroom)			
	presence, Virtual and Augmented Reality			
	Enes Yigitbas			
	y and Analysis of Security Vulnerabilities, Privacy Violations and			
Robustness Analysis for Automatic Emotion Recognition in Conversations (12 Yigitbas	ation Strategies to XR Systems (12 + 3 min) Leonard Schmidt and Enes			
	r: A Driving Simulator-Inspired Technique for Steering Telepresence			
W6-2 Acceptance, Usability, and Emotions - An Extension of the UTAUT Robots (8 min)	Ghazal Zand and Ahmed Sabbir Arif			
Designed for AI Virtual Assistants in the Context of Housing Modernization M-3 Evaluating	g User Preferences in Sharing Sensitive Information via Telepresence			
11:30- (12 + 3 min) Kilian Hildebrandt, Thorben Ortmann and Larissa Putzar W6 3 Emotional Manipulation in Phinking Emotion Experimental Study of	Ghazal Zand, David Yang and Ahmed Sabbir Arif 📽			
	ng Virtual Reality to Support Inclusive Design for the Visually			
Environment (12 + 3 min) Mika Wiemken, Kilian Hildebrandt, André Jeworutzki Impaired (8 mi	n) George Melissourgos, Damianos Gavalas and Vlasios Kasapakis 🎇			
and Larissa Putzar M-5 Design a	nd Development of a VR Wheelchair Game Applying a Novel			
wo-4 Emotion Recognition using multi-modal data and sen-super vised	ystem (8 min) Victor Sassi, Michelle Tizuka, Esteban Clua, Daniela			
learning techniques (10 + 2 min) Max Neuwirt				
W6-5 Working with the Gaps in Understanding: Revisiting an Approach to				
Affective Computing Research in the Emotion Bike Project (10 + 2 min)				
Susanne Draheim, Kai von Luck, Larissa Putzar				
Please provide us with your feedback in or				
www.petrae.org/survey	ar online survey.			

End of the PETRA 2025 Conference

Sexual Harassment and Sexual Misconduct Policy is available at: <u>http://petrae.org/policy</u>