

October 6 13:20 – 17:00

6KC303f

HMS 3

Assistive Technologies

Session Chairs:

TBA

Paper#	Paper Title
1132	Visual Attention Control Using Peripheral Vision Stimulation
496	A Supporting System for Quick Dementia Screening Using PIR Motion Sensor in Smart Home
663	Effects of Output Speed Threshold on Real-Time Continuous EMG Human-Machine Interface Control
646	BrailleBand: Blind Support Haptic Wearable Band for Communication Using Braille Language
966	Study on the Force Myography Sensors Placement for Robust Hand Force Estimation
812	An Interactive Virtual Mirror to Support Makeup for Visually Impaired Persons
1169	Navigational Path Detection for the Visually Impaired Using Fully Convolutional Networks
882	Adaptive Stimulus Selection in ERP-Based Brain-Computer Interfaces by Maximizing Expected Discrimination Gain
303	Development of a String Driven Walking Assist Device Actuated by Upper Body
827	Does Tactile Feedback Enhance Single-Trial Detection of Error-Related EEG Potentials?
517	Analysis of Relationship between Target Visual Cognition Difficulties and Gaze Movements in Visual Search Task

October 6 13:20 – 17:00

6PDC301f

HMS 4 Human Factors

Session Chairs:

TBA

Paper #	Paper Title
310	Adaptable and Enjoyable Control of Human Motion: Proprioception Focused Approach
491	Driver Response Times to Auditory, Visual and Tactile Take-Over Requests: A Simulator Study with 101 Participants
483	Estimation of Cognitive Load Based on the Pupil Size Dilation
502	Linking Sensory Perceptions and Physical Properties of Orange Drinks
1061	Context Respectful Counseling Agent Integrated with Robot Nodding for Dialog Promotion
761	Variable Force-Stiffness Haptic Feedback for Learning a Disturbance Rejection Task
415	A Human-Like Steering Model Sensitive to Uncertainty in the Environment
993	An Open Source Adaptive User Interface for Network Monitoring
430	Dominance and Movement Cues of Robot Motion - a User Study on Trust and Predictability
282	Effect of Personal Data Aggregation Method on Estimating Group Stress with Wearable Sensor
723	A Hybrid Eye-Tracking Method Using a Multispectral Camera

October 6 13:20 – 17:00

6MB253f

HMS 5 Human-Machine Cooperation & Systems

Session Chairs:

TBA

Paper #	Paper Title
586	Ankle Stretching Rehabilitation Machine for Equinovarus: Design and Evaluation from Clinical Aspects
272	Event-Driven Data Transmission in Variable-Delay Network
1168	Prediction of Lower-Limb Joint Kinematics from Surface EMG During Overground Locomotion
1102	Human-Interactive Robot for Gait Evaluation and Navigation
1119	Model-based Prediction of Workload for Adaptive Associate Systems
1236	Dynamic Posture Estimation in a Network of Depth Sensors Using Sample Points
1147	A Narrow Road Driving Assistance System Based on Driving Style
1204	Perceive the Difference: Vehicle Pitch Motions As Feedback for the Driver
831	Comparing Parallel and Sequential Control Parameter Tuning for a Powered Knee Prosthesis
481	Transfer Learning for sEMG Hand Gestures Recognition Using Convolutional Neural Network
114	Recurrent Convolutional Networks Based Intention Recognition for Human-Robot Collaboration Tasks

October 7**8:00 – 10:20****7KC303m****HMS 6****Machine Learning & System Safety, Security and Reliability****Session Chairs:****TBA**

Paper #	Paper Title
929	360° View Camera Based Visual Assistive Technology for Contextual Scene Information
797	Frequency-Band and Electrode-Channel Selection for Motion Discrimination from Electroencephalography Using L1-Constrained Least Squares
950	Robust and Accurate State-Of-Charge Estimation for Lithium-Ion Batteries Using Generalized Extended State Observer
758	Live-Feeling Communication: Multi-Algorithm Approach to the Estimation of Human Intentions
1151	Optimized Detector for Closed-Loop Devices for Neurostimulation
973	CARTS: Constraint-Based Analytics from Real-Time System Monitoring
915	S3Email: A Method for Securing Emails from Service Providers

October 7 13:20 – 17:00

7KC303f

HMS 7 User Interface Design & User Feedback

Session Chairs:

TBA

Paper #	Paper Title
118	Effect of Feedback Type and Modality on Human Motivation
171	Effects of Different Types of Correctness Feedback on Children's Performance with a Mobile Math App
681	Development of Automatic Matching and Image Quality Improving Methods for Scattering 3D Display
380	Audience Excitement Reflected in Respiratory Phase Synchronization
1073	HMI-Guard: A Platform for Detecting Errors in Human-Machine Interfaces
123	GUI-Driven Intelligent Tutoring System with Sensor-Free Affective Support to Help Learning the Algebraic Method
1201	A Dynamic Depth-Variable Ray-Casting Interface for Object Manipulation in AR Environments
940	DesignAR : Portable Projection-Based AR System Specialized in Interior Design

October 7 13:20 – 17:00
7KC105f**HMS 8****Wearable Computing & Virtual Reality****Session Chair:****TBA**

Paper #	Paper Title
1071	Facilitating Player Progression by Implementing Procedural Music in Videogames
564	Cognitive Adaptability to Optimize Online Behavior Personalizing Digital Workspaces with Virtual Reality
815	Haptics and Virtual Reality Based Bilateral Shared Telemanipulation of Aerial Vehicle Over Open Communication Network
537	A Texture Display Using Vibrotactile and Electrostatic Friction Stimuli Surpasses One Based on Either Type of Stimulus
1219	Depth-Level Based Camouflaging Using RGB-D Sensor
850	Development and Pilot Test of a Virtual Reality System for Electric Powered Wheelchair Simulation
166	Real-Time Head Gesture Recognition on Head-Mounted Displays Using Cascaded Hidden Markov Models
1198	Usage of Tactile Feedback to Assist Cooperative Object Manipulations in Virtual Environments
1149	Combining Wristband-Type Devices and Smartphones to Detect Falls
725	Wearable Flexible Device for Respiratory Phase Measurement based on Sound and Chest Movement
724	Recognition of Daily Routines and Accidental Event with Multipoint Wearable Inertial Sensing for Seniors Home Care