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   Nota di contenuto Brain-Computer Interfaces -- Developing an Optical Brain-Computer

Interface for Humanoid Robot Control -- Using motor imagery to control brain-computer interfaces for communication -- An online gaze-independent BCI system used dummy face with eyes only region as stimulus -- A Kronecker Product Structured EEG Covariance Estimator for a Language Model Assisted-BCI -- Poor BCI performers still could benefit from motor imagery training -- Predicting EEG Sample Size Required for Classification Calibration -- An SSVEP and Eye Tracking Hybrid BNCI: Potential beyond Communication and Control -- Multi-Brain BCI: Characteristics and Social Interactions -- Comparing EEG Artifact Detection Methods for Real-World BCI -- Examining the Neural Correlates of Incidental Facial Emotion Encoding Within the Prefrontal Cortex Using Functional Near-Infrared Spectroscopy -- Exploring the EEG Correlates of Neurocognitive Lapse with Robust Principal Component Analysis -- Augmenting VR/AR Applications with EEG/EOG Monitoring and Oculo-Vestibular Recoupling -- Electroencephalography and Brain Activity Measurement -- Neural Correlates of Purchasing Decisions in an Ecologically Plausible Shopping Scenario with Mobile fNIR Technology -- Real-time Monitoring of Cognitive Workload of Airline Pilots in a Flight Simulator with fNIR Optical Brain Imaging Technology -- Truthiness: Challenges associated with employing machine learning on neurophysiological sensor data -- Evaluation of Cognitive Control and Distraction using Event-Related Potentials in Healthy Individuals and Patients with Multiple Sclerosis -- Auditory Alarm Misperception in the Cockpit: An EEG Study of Inattentional Deafness -- MultiModel Approach to Human Functional State Estimation -- Using fNIRS for Realtime Cognitive Workload Assessment -- Modeling and Tracking Brain Nonstationarity in a Sustained Attention Task -- Linking Indices of Tonic Alertness: Resting-State Pupil Dilation and Cingulo-Opercular Neural Activity.- Evaluating Neural Correlates ofConstant-Therapy Neurorehabilitation Task Battery: An fNIRS Pilot Study -- Overloaded and Biased? Using augmented cognition to understand the interaction between information overload and cognitive biases -- Session-to-session transfer in detecting steady-state visual evoked potentials with individual training data -- Paired Associative Stimulation with Brain-Computer Interfaces: A New Paradigm for Stroke Rehabilitation -- Single Trial Variability of Event-Related Brain Potentials as an Index of Neural Efficiency during Working Memory -- Cognitive Modelling and Physiological Measuring -- A More Complete Picture of Emotion using Electrocardiogram and Electrodermal Activity to Complement Cognitive Data -- Real-Time Fatigue Monitoring with Computational Cognitive Models -- Introduction to Real-Time State Assessment -- User Abilities in Detecting Vibrotactile Signals on the Feet Under Varying Attention Loads -- Estimate Emotion Method to Use Biological, Symbolic Information Preliminary Experiment -- Job Analysis and Cognitive Task Analysis in National Security Environments -- Measuring the Effect of Tangible Interaction on Design Cognition -- Psychological Baseline Methods and Usage -- Physiological Measures of Arousal during Soldier-Relevant Tasks Performed in a Simulated Environment -- Theoretical versus Mathematical Approach to Modeling Psychological and Physiological Data -- Monitoring attention with embedded frequency markers for simulation environments -- Augmenting Robot Behaviors Using Physiological Measures of Workload State -- Posture-Based Recognition of the Visual Focus of Attention for Adaptive Mobile Information Systems -- Considerations in Physiological Metric Selection for Online Detection of Operator State: A Case Study -- Sensing and Assessing Cognitive Workload across Multiple Tasks.

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International Conference on Foundations of Augmented Cognition, AC 2016, held as part of the 18th International Conference on Human-Computer Interaction, HCII 2016, which took place in Toronto, Canada, in July 2016. HCII 2016 received a total of 4354 submissions, of which 1287 papers were accepted for publication after a careful reviewing process. The 50 papers presented in this volume were organized in topical sections named: brain-computer interfaces; electroencephalography and brain activity measurement; and cognitive modeling and physiological measuring. .