

Contents

The Psychophysiological Effect of a Vibro-Kinetic Movie Experience: The Case of the D-BOX Movie Seat	1
Horea Pauna, Pierre-Majorique Léger, Sylvain Sénécal, Marc Fredette, François Courtemanche, Shang-Lin Chen, Élise Labonté-Lemoyne and Jean-François Ménard	
Reinforcement Sensitivity and Engagement in Proactive Recommendations: Experimental Evidence	9
Laurens Rook, Adem Sabic and Markus Zanker	
The Choice Is Yours: The Role of Cognitive Processes for IT-Supported Idea Selection	17
Isabella Seeber, Barbara Weber, Ronald Maier and Gert-Jan de Vreede	
Blood Pressure Measurement: A Classic of Stress Measurement and Its Role in Technostress Research	25
Thomas Fischer, Gerhard Halmerbauer, Eva Meyr and René Riedl	
On the Role of Users' Cognitive-Affective States for User Assistance Invocation	37
Celina Friemel, Stefan Morana, Jella Pfeiffer and Alexander Maedche	
Measuring and Explaining Cognitive Load During Design Activities: A Fine-Grained Approach	47
Barbara Weber, Manuel Neurauter, Andrea Burattin, Jakob Pinggera and Christopher Davis	
How Product Decision Characteristics Interact to Influence Cognitive Load: An Exploratory Study	55
Sylvain Sénécal, Pierre-Majorique Léger, René Riedl and Fred D. Davis	

Why and How to Design Complementary NeuroIS and Behavioral Experiments	65
Anthony Vance, Jeffrey L. Jenkins, Bonnie Brinton Anderson, C. Brock Kirwan and Daniel Bjornn	
The Impact of Age and Cognitive Style on E-Commerce Decisions: The Role of Cognitive Bias Susceptibility	73
Nour El Shamy and Khaled Hassanein	
Expertise as a Mediating Factor in Conceptual Modeling	85
Christopher J. Davis, Alan R. Hevner, Élise Labonte-LeMoyne and Pierre-Majorique Léger	
A Neuro-Cognitive Explanation for the Prevalence of Folder Navigation and Web Browsing	93
Ofer Bergman and Yael Benn	
Physiological, Psychological, and Behavioral Measures in the Study of IS Phenomena: A Theoretical Analysis of Triangulation Strategies	101
Kevin Hill and Stefan Tams	
The Psychophysiology of Flow: A Systematic Review of Peripheral Nervous System Features	109
Michael T. Knierim, Raphael Rissler, Verena Dorner, Alexander Maedche and Christof Weinhardt	
Predicting Properties of Cognitive Pupillometry in Human–Computer Interaction: A Preliminary Investigation	121
Pierre-Majorique Léger, Patrick Charland, Sylvain Sénécal and Stéphane Cyr	
Human Versus Machine: Contingency Factors of Anthropomorphism as a Trust-Inducing Design Strategy for Conversational Agents	129
Anna-Maria Seeger and Armin Heinzl	
Affective Processing Guides Behavior and Emotions Communicate Feelings: Towards a Guideline for the NeuroIS Community	141
Peter Walla	
Beyond Traditional Neuroimaging: Can Mobile fNIRS Add to NeuroIS?	151
Caspar Krampe, Nadine Gier and Peter Kenning	
Decision Inertia and Arousal: Using NeuroIS to Analyze Bio-Physiological Correlates of Decision Inertia in a Dual-Choice Paradigm	159
Dominik Jung and Verena Dorner	

IAT Measurement Method to Evaluate Emotional Aspects of Brand Perception—A Pilot Study	167
Harald Kindermann and Melanie Schreiner	
Inferring Web Page Relevance Using Pupillometry and Single Channel EEG	175
Jacek Gwizdka	
Measuring Biosignals of Overweight and Obese Children for Real-Time Feedback and Predicting Performance	185
Nurten Öksüz, Russa Biswas, Iaroslav Shcherbatyi and Wolfgang Maass	
Stationarity of a User's Pupil Size Signal as a Precondition of Pupillary-Based Mental Workload Evaluation	195
Ricardo Buettner, Ingo F. Scheuermann, Christian Koot, Manfred Rössle and Ingo J. Timm	
Towards Reconceptualizing the Core of the IS Field from a Neurobiological Perspective	201
Lars Taxén	
Using EEG Signal to Analyze IS Decision Making Cognitive Processes	211
Nabila Salma, Bin Mai, Kamesh Namuduri, Rasel Mamun, Yassir Hashem, Hassan Takabi, Natalie Parde and Rodney Nielsen	

Information Systems and Neuroscience

Gmunden Retreat on NeuroIS 2017

Davis, F.; Riedl, R.; vom Brocke, J.; Léger, P.-M.;

Randolph, A. (Eds.)

2018, XII, 218 p. 29 illus., 4 illus. in color., Softcover

ISBN: 978-3-319-67430-8