

# International Journal of Affective Engineering

Japan Society of Kansei Engineering

Vol.15 No.2 – Vol.15 No.3



# International Journal of Affective Engineering

CONTENTS (Vol.15 No.2) (Special Issue on ISASE 2015)

---

<b>Neuroeconomics Consideration of Selection Behavior using Heuristics: From the Results of the Contingent Negative Variation Measurement</b> .....	29
Hiromi FUJIMORI, Mika ITO, Tatsuya OZEKI and Hisaya TANAKA	
<b>Constructing a System which Proposes Metaphors Corresponding to the Onomatopoeia Expressing Medical Conditions</b> .....	37
Ryuichi DOIZAKI, Takahide MATSUDA, Akira UTSUMI and Maki SAKAMOTO	
<b>Investigation of Fabric Texture Expression through Dynamic Alteration of Drapes</b> .....	45
– Image Presentation Method in Online Shopping Environments –	
Tomoharu ISHIKAWA, Ryota TSUJI, Kazuya SASAKI, Keiko MIYATAKE and Miyoshi AYAMA	
<b>Emotion Recognition using ECG Signals with Local Pattern Description Methods</b> .....	51
Somchanok TIVATANSAKUL and Michiko OHKURA	
<b>Factors Influencing to Travel Behavior on Transport Mode Choice</b> .....	63
– A Case of Colombo Metropolitan Area in Sri Lanka –	
R.A.M. MADHUWANTHI, Ashu MARASINGHE, R.P.C. Janaka RAJAPAKSE, Asanka D. DHARMAWANSA and Shusaku NOMURA	
<b>A Study of the Educational Approach of the Australian Landcare Movement</b> .....	73
Tomomi MAEKAWA, Michael T. SEIGEL and Toshio KUWAKO	
<b>Impression Estimation System for Short Sentences using Adjectives</b> .....	83
Nguyen Thi THU AN and Masafumi HAGIWARA	
<b>Developing a Document Creating System for Affective Design: A Case Study in Card Design</b> .....	91
Qianru QIU and Kengo OMURA	
<b>Student Assessment Based on Affective Factors in English Learning Using Fuzzy Inference</b> .....	101
Fitra A. BACHTIAR, Eric W. COOPER, Gunadi H. SULISTYO and Katsuari KAMEI	
<b>The Relationship of UX and Perceptions of Credibility</b> .....	109
– The Case of the Mobile Social Commerce Sites –	
Kieun Kim	

<b>A Study on the Method of Product Development Management at Vocational Aid Centers.....</b>	<b>115</b>
– An Analysis of Exemplary Cases of Original Product Development and of Local Government Support – Chitose IKEDA, Yasuko TAKAYAMA and Satoshi KOSE	
<b>A Text-based Automatic Waka Generation System using Kansei .....</b>	<b>125</b>
Ming YANG and Masafumi HAGIWARA	
<b>“EMO”: Design of an Emotional Communication Device based on Gestural Interactions .....</b>	<b>135</b>
Yang LIU and Céline MOUGENOT	
<b>The Effects of Scents on Emotion and Performance in User Experience of Application Software .....</b>	<b>143</b>
Suomiya BAO and Toshimasa YAMANAKA	
<b>Investigation on a Non-verbal Emotion Assessment Tool in Cross-cultural Context.....</b>	<b>153</b>
Weihua LU and Jean-François PETIOT	
<b>Personality Traits Associated with Body Shape.....</b>	<b>161</b>
Hikari NAMATAME, Miho SAITO and Yoko SAWAMIYA	
<b>Towards Detecting Appropriate Respondents to Questions Posted at Q&amp;A Sites by Disregarding and Considering Categories of Answer Statements.....</b>	<b>167</b>
Yuya YOKOYAMA, Teruhisa HOCHIN and Hiroki NOMIYA	
<b>A Study on Effectiveness of Onomatopoeia in Expressing Users’ Operational Feelings about HMIs .....</b>	<b>177</b>
Yusuke KUSABA, Ryuichi DOIZAKI and Maki SAKAMOTO	
<b>Development and Evaluation of a Smartphone Application for Self-estimation of Daily Mental Stress Level .....</b>	<b>183</b>
Shuwa KIDO, Ayako HASHIZUME, Tetsuaki BABA and Takemi MATSUI	
<b>Differences in Heartbeat Modulation between Excited and Relaxed Kawaii Feelings during Photograph Observation .....</b>	<b>189</b>
Miyuki YANAGI, Yoshiyuki YAMARIKU, Tomomi TAKASHINA, Yoshikazu HIRAYAMA, Ryota HORIE and Michiko OHKURA	

**Comparison of Optimized Selection Methods of Sampling Sites Network  
for Water Quality Monitoring in a River ..... 195**

Chamara P LIYANAGE, Ashu MARASINGHE and Koichi YAMADA

**A Visual Interface for Emotion based Music Navigation using  
Subjective and Objective Measures of Emotion Perception ..... 205**

Sugeeswari LEKAMGE, Ashu MARASINGHE,  
Pradeep KALANSOORIYA and Shusaku NOMURA

# International Journal of Affective Engineering

## CONTENTS (Vol.15 No.3)

---

- Experience and Training of a First Person Shooter (FPS) Game Can Enhance Useful Field of View, Working Memory, and Reaction Time** ..... 213  
Yasuhiro SEYA and Hiroyuki SHINODA
- Effectiveness of a Sympathy Expression Model for the Bystander Robot** ..... 223  
Shoji IGUCHI, Hiroshi TAKENOUCI and Masataka TOKUMARU
- Elucidation of Factors Predicting the Impression of “Yuru-sa” in Japanese Yuru-kyara Mascot Characters** ..... 231  
Sittiphan JIYAVORANANDA, Hiroko ISHIKAWA, Shunsuke SAKAI, Katsuo YAMANAKA, Toshimasa YAMANAKA and Tomoyuki MASUDA
- Appearance of Gold, Silver and Copper Colors of Glossy Object Surface**..... 239  
Tomohisa MATSUMOTO, Kazuho FUKUDA and Keiji UCHIKAWA
- Subjective Melodic Similarity based on Extended Implication-Realization Model**..... 249  
Sakurako YAZAWA, Masatoshi HAMANAKA and Takehito UTSURO
- TSP Model Service Design of Fourth-generation Electronic Book**..... 259  
Hideaki SUZUKI and Hiroshi NUNOKAWA
- Activity-Driven PSS Design Method based on Emotional Customer Activity Modeling Integrating Expectation and Experience Factors** ..... 265  
Eok KIM, Kun-Pyo LEE and Ki-Young NAM
- Approach of Structural Equation Modeling for Evaluating Access Mode Choice – A Case of Colombo Metropolitan Area in Sri Lanka –** ..... 279  
R.A.M. MADHUWANTHI and Shusaku NOMURA
- Effects of Both Similarity of the Evaluation of Impressions, Between Elements, and Font Legibility, on Aesthetic Impression of Packaging** ..... 289  
Shioko MUKAI and Genta MIYAZAKI
- An Image Impression Estimation System using Adjectives** ..... 295  
Nguyen Thi THU AN and Masafumi HAGIWARA
- An Emotion Transition Model using Fuzzy Inference** ..... 305  
Natsuko KATO and Masafumi HAGIWARA

<b>The Emotional Expression of Knitting Fashion Design .....</b>	<b>313</b>
Junwen LIN and Jing YAN	
<b>The Effect of a Bio-signal Interactive Virtual Reality on Subjective Impression – A Preliminary Study .....</b>	<b>317</b>
Pradeep KALANSOORIYA, Yamato MITSUI, Shoichiro TAKAKI, Masanori KINEFUCHI, Aya TAKAHASHI and Shusaku NOMURA	
<b>Application of Affective Engineering and Fuzzy Analytical Hierarchy Process in Thai Ceramic Manufacturing .....</b>	<b>325</b>
Chaiwat KITTIDECHA, Ashuboda Chandrajith MARASINGHE and Koichi YAMADA	
<b>Visual Acuity, Color Discrimination, and Quality of Life in Patients with Cataract: Towards a Comfortable Lifestyle .....</b>	<b>335</b>
Po-Chun CHEN, Shu IMAIZUMI, David Pei-Cheng LIN, Suke-Hito KURE, Shinichi KOYAMA and Haruo HIBINO	
<b>The Influence of Simultaneous Multiple Exposure on the Mere Exposure Effect .....</b>	<b>343</b>
Taiichiro UECHI and Shuichiro TAYA	