Contents

Pre	face	V
Me	ssage from the President, Japan Society of Kansei Engineering	vii
1	Building machines in the biological way: reactivity and emotions first, reasoning later Dr. Horia-Nicolai L. Teodorescu Professor, Gheorghe Asachi Technical University of Iasi	3
2	Emerging New Rules of Games in Design Dr. Kunpyo Lee Executive Vice President Head, Corporate Design Center, LG Electronics	5
3	A case study on elegance of a jacket appearance using images and silhouette of jackets	7
4	A Fashion Coordinate Support system Based on the Visualization of Impression Differences	13
5	A Formulation of Artificial Kansei Design Method Based on Multi-agent Spaces Generated by Variable Neighborhood Models Seiki UBUKATA, Yasuo KUDO, Tetsuya MURAI	21
6	A method of analyzing the results obtained through the impression evaluation method considering the vagueness of Kansei	27
7	A Proposal of Kansei Evaluation for Traditional Vietnamese Aodai Clothes based on Computer Vision	33

x Contents

8	A proposal on a new versatile system design process for industrial design, service design and so on	39
9	A Research about Developing Informed Consent Tool for Relieving Fear for Cataract Operation	45
10	A Research on Characteristics of Behaviors Appearing in Coloring - Differences in Coloring Behaviors by Contexts of Contour Images . WonSeok YANG, Toshimasa YAMANAKA	49
11	A Study of Trademarks, Symbols and Logotypes of Japanese Corporations -in Terms of Customersf Familiarity and Affection Yoko SUZUKI, Hisashi YAMAMOTO	55
12	A Study on Fashion Coordination Support System	61
13	A Study on Preference of Shuso Japanese Paper -Comparison of Japan, China and France- Hongguang HU, Yuka TAKAI, Noritaka SAIKI, Akihiko GOTO, Hiroyuki HAMADA	65
14	An Analysis of Reading Emotion of e-Books with Sound Effects by Near-Infrared Spectroscopy (NIRS)	71
15	An Assessment of Workload on Upper Limbs and Design for Burden Reduction When Caregiver Change the Nursing Trousers Kazuaki URYU, Megumi KOKATSU, Satoshi HOSOYA, Chiyomi MIZUTANI	77
16	Analysis and Evaluation of Business Signs Using Deviation Values Proposal for Using Sign Deviation Values to Improve Customer Satisfaction	83
17	Analysis of Intended uses of Hygiene Masks and Their Problems: A Cross-sectional Survey	93
18	Automatic Image Description Generation in Japanese Using Web-scale Image Dataset Tomohiko OZAWA, Masafumi HAGIWARA	99

Contents xi

19	Brain functional connectivity according to valence of social emotion . Jonghwa KIM, Dongyeop LEE, Mincheol WHANG	107
20	Chaotic Analysis of Electroencephalograic Signal for Sleep Quality Measurement Sun K. YOO, Chung Ki LEE, Han Gue JO	111
21	Classification and Optimization of Product Review Information Using Soft Computing Models Choo Jun TAN, Chee Peng LIM, Yu-N CHEAH, Shing Chiang TAN	115
22	Comparison of Electronic Textbook and Paper Textbook from the perspective of Usersf Stress and their Evaluation	121
23	Comparison of high-end tailored jackets for ready-to-wear produced in Italy and Japan	125
24	Convergence of a Newton-Like Algorithm Solving the Nonlinear Complementarity Problem	131
25	Creating Upper Garments with Tight Sleeves Considering Individualsf Figures by Automatic 3D Pattern-making Yo TAKAHASHI, Akito SOFUE, KyoungOk KIM, Masayuki TAKATERA	139
26	Cutting Method for Cloth Handling	145
27	Development of the Skin Counseling Equipment in which Counselorfs Experience and Sensitivity are Reflected	153
28	Draping Simulation by a Mapping Method	159
29	Effect of variation of the layout angle of plane figures on their apparent sizes and changing proportions of rectangle	167
30	Emotion-on-a-chip (EOC): Biochip technology for precise measurement of human emotion in affective engineering	171

xii Contents

31	Estimation of Dialogue Moods Using the Prosodic Fluctuation Features
32	Evaluation of Chrysanthemum Perfume Effects on Sleep Quality through Polysomnography
33	Evaluation of comfortable sensation when wearing a cosmetic facemask
34	Experiencing Color Environments by Different Age Groups: Tapping into the Potentials of VR Simulation
35	Fit Satisfaction and Design Preference for Jodhpurs
36	Fitness Comparison of Commercial Jodhpurs Using 3D Scan Data 207 Mi Jung KANG, Young-Ah KWON
37	Forecasting Emotions Provoked by Perception of Mandala Patterns based on Electrocephalogram Components
38	Independence of anisotropy and depth reversal in apparent depth specified by binocular disparity and motion parallax
39	Influence of focal colors in color memory
40	Interactive Generation of Musical Expression Reflecting Userfs Impression
41	Interactive Tabu Search for Creating Fragrance Suited to Userfs Preference
42	Making Sense of Product Aesthetic Perception through Kansei Studies: Perspectives with African Design

Contents xiii

43	Mu Rhythm Suppression during Observing Group Action	249
44	Performance matrix approach to generating an alternative plan in consensus building	255
45	Preliminary Research on Physiological Response to Pleasant Tactile Properties of Towels Ya-Ning LI, Masayoshi KAMIJO, Tomomi TSUGAMA	263
46	Relationships between an Individualfs Fabric Identification Ability and Amounts of Experience and Knowledge	271
47	Research on jacket patterns and specifications of ready-to-wear for high-end in Italy and Japan	275
48	Reviewing the Role of the Science Fiction Special Interest Group in User Interfaces: Case of the Science Fiction Movie	281
49	Rules of Kawaii	285
50	Shall We Let Algebraic Agents Play a Board Game?	293
51	Statistical Investigation on Correlation between Feeling Impression and Feature Quantity of Sound Signal	299
52	Streetscape Zoning for Historical Town by Self Organizing Maps Toshio TSUCHIYA	305
53	Structure of Feeling Kawaii	313
54	Study on a Music Recommendation Method Based on Combination Value Jun OKAWA, Ken KAJI, Hiroko SHOJI, Akihiro OGINO	323

xiv Contents

55	Text Data Mining of English Guidebooks for Hokuriku Region in Japan
56	The Effect of Color, Material, and Finishing (CMF) on Emotional Characteristics of White Products
57	The effect of soundscapes in immersive virtual environments
58	The Evaluation of Informational and Emotional Appeals of Plant Factory TV Commercials on Purchase Intention and Favorability 351 Xiaofan ZHANG, Zhenwei YOU, Kenta ONO, Haruo HIBINO, Shinichi KOYAMA
59	The Influence of Skincare Routine on Skin Physiology Parameter and Kansei-Value
60	The Research of Questionnaire Survey for Culture Characteristics Improvement in the Concrete
61	The Study for the Tendency and the Trend of Global Smart phone \dots 369 Won-II KWAK , Joung-Pyo HONG
62	Theatrical Effects Generation Based on Adjectives Representing Impressions of Story Scene
63	Unveil the Competitive Advantage of Richemont over LVMH 381 Shinichiro TERASAKI, Shin'ya NAGASAWA
64	Using Feature Values of Statements to Improve the Estimation Accuracy of Factor Scores of Impressions of Question and Answer Statements
65	Using Robots to Estimate Childrens Personalities

Contents ΧV

66	Autonomic Nervous Response depending on Cultural Familiarity during Watching Movie
67	Physiological Signals as Reference Data to evaluate Movie Engagement
68	Respiratoty Sinus Arrhythmia as an Index of Attentional Engagement during Watching Movie
Aut	hor Index

Index