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Sakae Yamamoto (Ed.)

Human Interface and the Management of Information

Information and Knowledge Design

17th International Conference, HCI International 2015
Los Angeles, CA, USA, August 2–7, 2015
Proceedings, Part I

Editor
Sakae Yamamoto
Tokyo University of Science
Tokyo
Japan

ISSN 0302-9743 ISSN 1611-3349 (electronic)
Lecture Notes in Computer Science
ISBN 978-3-319-20611-0 ISBN 978-3-319-20612-7 (eBook)
DOI 10.1007/978-3-319-20612-7

Library of Congress Control Number: 2015941874

LNCS Sublibrary: SL3 – Information Systems and Applications, incl. Internet/Web, and HCI

Springer Cham Heidelberg New York Dordrecht London
© Springer International Publishing Switzerland 2015

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Printed on acid-free paper

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(www.springer.com)

Foreword

The 17th International Conference on Human-Computer Interaction, HCI International 2015, was held in Los Angeles, CA, USA, during 2–7 August 2015. The event incorporated the 15 conferences/thematic areas listed on the following page.

A total of 4843 individuals from academia, research institutes, industry, and governmental agencies from 73 countries submitted contributions, and 1462 papers and 246 posters have been included in the proceedings. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The volumes constituting the full 28-volume set of the conference proceedings are listed on pages VII and VIII.

I would like to thank the Program Board Chairs and the members of the Program Boards of all thematic areas and affiliated conferences for their contribution to the highest scientific quality and the overall success of the HCI International 2015 conference.

This conference could not have been possible without the continuous and unwavering support and advice of the founder, Conference General Chair Emeritus and Conference Scientific Advisor, Prof. Gavriel Salvendy. For their outstanding efforts, I would like to express my appreciation to the Communications Chair and Editor of HCI International News, Dr. Abbas Moallem, and the Student Volunteer Chair, Prof. Kim-Phuong L. Vu. Finally, for their dedicated contribution towards the smooth organization of HCI International 2015, I would like to express my gratitude to Maria Pitsoulaki and George Paparoulis, General Chair Assistants.

May 2015

Constantine Stephanidis
General Chair, HCI International 2015

HCI International 2015 Thematic Areas and Affiliated Conferences

Thematic areas:

- Human-Computer Interaction (HCI 2015)
- Human Interface and the Management of Information (HIMI 2015)

Affiliated conferences:

- 12th International Conference on Engineering Psychology and Cognitive Ergonomics (EPCE 2015)
- 9th International Conference on Universal Access in Human-Computer Interaction (UAHCI 2015)
- 7th International Conference on Virtual, Augmented and Mixed Reality (VAMR 2015)
- 7th International Conference on Cross-Cultural Design (CCD 2015)
- 7th International Conference on Social Computing and Social Media (SCSM 2015)
- 9th International Conference on Augmented Cognition (AC 2015)
- 6th International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management (DHM 2015)
- 4th International Conference on Design, User Experience and Usability (DUXU 2015)
- 3rd International Conference on Distributed, Ambient and Pervasive Interactions (DAPI 2015)
- 3rd International Conference on Human Aspects of Information Security, Privacy and Trust (HAS 2015)
- 2nd International Conference on HCI in Business (HCIB 2015)
- 2nd International Conference on Learning and Collaboration Technologies (LCT 2015)
- 1st International Conference on Human Aspects of IT for the Aged Population (ITAP 2015)

Conference Proceedings Volumes Full List

1. LNCS 9169, Human-Computer Interaction: Design and Evaluation (Part I), edited by Masaaki Kurosu
2. LNCS 9170, Human-Computer Interaction: Interaction Technologies (Part II), edited by Masaaki Kurosu
3. LNCS 9171, Human-Computer Interaction: Users and Contexts (Part III), edited by Masaaki Kurosu
4. LNCS 9172, Human Interface and the Management of Information: Information and Knowledge Design (Part I), edited by Sakae Yamamoto
5. LNCS 9173, Human Interface and the Management of Information: Information and Knowledge in Context (Part II), edited by Sakae Yamamoto
6. LNAI 9174, Engineering Psychology and Cognitive Ergonomics, edited by Don Harris
7. LNCS 9175, Universal Access in Human-Computer Interaction: Access to Today's Technologies (Part I), edited by Margherita Antona and Constantine Stephanidis
8. LNCS 9176, Universal Access in Human-Computer Interaction: Access to Interaction (Part II), edited by Margherita Antona and Constantine Stephanidis
9. LNCS 9177, Universal Access in Human-Computer Interaction: Access to Learning, Health and Well-Being (Part III), edited by Margherita Antona and Constantine Stephanidis
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19. LNCS 9187, Design, User Experience, and Usability: Users and Interactions (Part II), edited by Aaron Marcus
20. LNCS 9188, Design, User Experience, and Usability: Interactive Experience Design (Part III), edited by Aaron Marcus

21. LNCS 9189, Distributed, Ambient and Pervasive Interactions, edited by Norbert Streitz and Panos Markopoulos
22. LNCS 9190, Human Aspects of Information Security, Privacy and Trust, edited by Theo Tryfonas and Ioannis Askoxylakis
23. LNCS 9191, HCI in Business, edited by Fiona Fui-Hoon Nah and Chuan-Hoo Tan
24. LNCS 9192, Learning and Collaboration Technologies, edited by Panayiotis Zaphiris and Andri Ioannou
25. LNCS 9193, Human Aspects of IT for the Aged Population: Design for Aging (Part I), edited by Jia Zhou and Gavriel Salvendy
26. LNCS 9194, Human Aspects of IT for the Aged Population: Design for Everyday Life (Part II), edited by Jia Zhou and Gavriel Salvendy
27. CCIS 528, HCI International 2015 Posters' Extended Abstracts (Part I), edited by Constantine Stephanidis
28. CCIS 529, HCI International 2015 Posters' Extended Abstracts (Part II), edited by Constantine Stephanidis

Human Interface and the Management of Information

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The full list with the Program Board Chairs and the members of the Program Boards of all thematic areas and affiliated conferences is available online at:

<http://www.hci.international/2015/>



HCI International 2016

The 18th International Conference on Human-Computer Interaction, HCI International 2016, will be held jointly with the affiliated conferences in Toronto, Canada, at the Westin Harbour Castle Hotel, 17–22 July 2016. It will cover a broad spectrum of themes related to Human-Computer Interaction, including theoretical issues, methods, tools, processes, and case studies in HCI design, as well as novel interaction techniques, interfaces, and applications. The proceedings will be published by Springer. More information will be available on the conference website: <http://2016.hci.international/>.

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Contents – Part I

Information Visualisation

Annotated Domain Ontologies for the Visualization of Heterogeneous Manufacturing Data.	3
<i>Rebekka Alm, Mario Aehnel, Steffen Hadlak, and Bodo Urban</i>	
Evaluation of Data Display Methods in a Flash Flood Prediction Tool.	15
<i>Elizabeth M. Argyle, Chen Ling, and Jonathan J. Gourley</i>	
Modernizing Exploration and Navigation in Enterprise Systems with Interactive Visualizations	23
<i>Tamara Babaian, Wendy Lucas, and Mengru Li</i>	
Explorative Visualization of Impact Analysis for Policy Modeling by Bonding Open Government and Simulation Data	34
<i>Dirk Burkhardt, Kawa Nazemi, Egils Ginters, Artis Aizstrauts, and Jörn Kohlhammer</i>	
Big Data Visualization for Occupational Health and Security Problem in Oil and Gas Industry.	46
<i>Daniela Gorski Trevisan, Nayat Sanchez-Pi, Luis Marti, and Ana Cristina Bicharra Garcia</i>	
Affective Responses of Interpolated Sketches	55
<i>Kun-An Hsiao</i>	
An Approach to Spatial Visualizing Method for Information Structure to Enhance Remember to Look.	67
<i>Jae-Gil Lee and Dong-Hee Shin</i>	
Visual Interactive Process Monitoring	74
<i>Sebastian Maier, Hannes Kühnel, Thorsten May, and Arjan Kuijper</i>	
Uncertainty Visualization Framework for Improving Situational Awareness in Emergency Management Systems	86
<i>Natália Ferreira Oliveira, Leonardo Castro Botega, Lucas César Ferreira, and Márcio Roberto de Campos</i>	
A Concept for Visualizing Psychophysiological Data in Human Computer Interaction: The FeaturePlotter	97
<i>Falko Pross, Dilana Hazer, Harald C. Traue, and Holger Hoffmann</i>	

Proposal of a Visualization Method to Support Informal Communication Using Twitter Attributes. 107
Ryota Sasajima, Kohei Otake, Makoto Oka, and Akito Sakurai

A Team Hiring Solution Based on Graph-Based Modelling of Human Resource Entities 115
Avinash Sharma, Jyotirmaya Mahapatra, Asmita Metrewar, Abhishek Tripathi, and Partha Dutta

Reading Through Graphics: Interactive Landscapes to Explore Dynamic Topic Spaces 127
Eva Ulbrich, Eduardo Veas, Santokh Singh, and Vedran Sabol

Edge Bundling in Multi-attributed Graphs 138
Takafumi Yamashita and Ryosuke Saga

Information Presentation

URU: A Platform for Prototyping and Testing Compatibility of Multifunction Interfaces with User Knowledge Schemata 151
Sandrine Fischer, Blaine Oelkers, Mitchell Fierro, Makoto Itoh, and Eric White

An Exploration of the Effectiveness of Infographics in Contrast to Text Documents for Visualizing Census Data: What Works? 161
Marylisa Gareau, Rebecca Keegan, and Lin Wang

Searching for Information: Comparing Text vs. Visual Search with Newspapers Websites 172
Victor M. González, Jesús García, and Bárbara Muro

The Usability of Magnification Methods: A Comparative Study Between Screen Magnifiers and Responsive Web Design 181
Elyse C. Hallett, Blake Arnsdorff, John Sweet, Zach Roberts, Wayne Dick, Tom Jewett, and Kim-Phuong L. Vu

Generating Summary Videos Based on Visual and Sound Information from Movies. 190
Yurina Imaji and Masaya Fujisawa

Narrower Conceptual Scope in the App Than the Web Store Interface – The Size Does It and the Ad Has It. 204
Chien-Ling Kao and Man-Ying Wang

Exploring Cultural Symbols in Nigeria for Contemporary Applications in Web Visual Design 215
Isah Bolaji Kashim, Oluwafemi S. Adelabu, and Sunday O. Ogunwole

Generation of Infotips from Interface Labels. 226
Eric White, Sandrine Fischer, and Foaad Khosmood

Proposal of a Data Presentation Technique Using Four-Frame Cartoon
 Expression for a LifeLog System 235
Takashi Yoshino and Iori Osada

Search in One’s Hand: How Users Search a Mobile Library Catalog. 247
Tao Zhang, Xi Niu, Liugen Zhu, and Hsin-liang Chen

Knowledge Management

Fusing Text and Image Data with the Help of the OWLnotator. 261
Giuseppe Abrami, Alexander Mehler, and Dietmar Pravida

A Filtering System of Web History Using the Browsing Characteristic 273
Keita Arai, Makoto Oka, and Hirohiko Mori

Seed, a Natural Language Interface to Knowledge Bases 280
Bahaa Eldesouky, Heiko Maus, Sven Schwarz, and Andreas Dengel

Managing References by Filing and Tagging: An Exploratory Study
 of Personal Information Management by Social Scientists 291
Pierre Fastrez and Jerry Jacques

Towards a Class-Based Model of Information Organization in Wikipedia. 301
Michael Gilbert and Mark Zachry

A General Framework for Text Document Classification Using SEMCON
 and ACVSR. 310
Zenun Kastrati, Ali Shariq Imran, and Sule Yildirim Yayilgan

A New Information Architecture: A Synthesis of Structure, Flow,
 and Dialectic 320
Rico A.R. Picone and Bryan Powell

Haptic, Tactile and Multimodal Interaction

Effects of Tacton Names and Learnability 335
Daniel Barber and Christopher Beck

Augmenting Soldier Situation Awareness and Navigation Through Tactile
 Cueing. 345
*Linda R. Elliott, Bruce Mortimer, Gina Hartnett-Pomranky, Gary Zets,
 and Greg Mort*

Multisensory Information Processing for Enhanced Human-Machine Symbiosis	354
<i>Frederick D. Gregory and Liyi Dai</i>	
Increase and Decrease of Optical Illusion Strength By Vibration	366
<i>Teluhiko Hilano and Kazuhisa Yanaka</i>	
Presentation Method of Walking Sensation Based on Walking Behavior Measurement with Inertial Sensors and Pressure Sensors	374
<i>Kohei Ichihara, Koichi Hirota, Yasushi Ikei, and Michiteru Kitazaki</i>	
Induction of a Relaxed State Using a Vibration Stimulus Based on the Respiratory Cycle	386
<i>Naoto Iwamoto and Hiroshi Hagiwara</i>	
Designing Memorable Tactile Patterns	396
<i>Daiji Kobayashi and Hiroyasu Mitani</i>	
Changes in Heart Rate Variability by Using Tactile Thermal Interface Device	405
<i>Kentaro Kotani, Shigeyoshi Iizuka, Takafumi Asao, and Satoshi Suzuki</i>	
Human Factors to Consider During the Early Development and Dissemination of New Displays to Improve Spatial Orientation and Situation Awareness	412
<i>Ben D. Lawson, John Christopher Brill, Linda-Brooke I. Thompson, Amanda M. Kelley, Casey R. Harris, and Angus H. Rupert</i>	
Computer Input System Using Eye Glances	425
<i>Shogo Matsumo, Kota Akehi, Naoaki Itakura, Tota Mizuno, and Kazuyuki Mito</i>	
Basic Study of Evoking Emotion Through Extending One’s Body Image by Integration of Internal Sense and External Sense.	433
<i>Sho Sakurai, Takuji Narumi, Toki Katsumura, Tomohiro Tanikawa, and Michitaka Hirose</i>	
Development of Tactile and Gestural Displays for Navigation, Communication, and Robotic Control	445
<i>Anna Skinner, Jack Vice, and Lisa Baraniecki</i>	
Human Characteristics of Figure Recognition in Tactile Feedback	458
<i>Motoki Tanuma, Makoto Oka, and Hirohiko Mori</i>	
Recognition of Written Cues System for Users of General Paper Media.	466
<i>Daiki Yamaji and Jiro Tanaka</i>	

Study of Haptics and Tactile Sense of the Direction of Movement 477
Sakae Yamamoto, Yukiko Yokomizo, and Daiji Kobayashi

Service Design and Management

Proposal of New Lighting Which Combined Functionality of Street Light
 and Outdoor Light. 491
Takeo Aino, Keiko Kasamatsu, and Akio Tomita

A Multi-agent Based System for Route Planning. 500
Eugene Belyi, Indravan Patel, Anusha Reddy, and Vijay Mago

Improving Service Quality by Prioritizing Service Attributes Using
 SERVQUAL and Kano Model: A Case Study of Nursing Home in Taiwan. . . 513
Chin-Mei Chou, Cindy Sutanto, and Shu-Kai Wu

Travel-Information Sharing System Using Tweets with Location
 Information 526
Junko Itou, Keiichiro Nakamura, and Jun Munemori

Ubiquitous Healthcare Systems: Improving the Adherence Level
 within Diabetic Medication Using Cloud-Based Reminder System. 535
Mohammed Kalkattawi and Tatsuo Nakajima

Centralized Approach for a Unified Wireless Network Access 547
Jan David Nose, Jaromir Likavec, Christian Bischof, and Arjan Kuijper

Proposal of Advance Care Planning Support System 560
*Satomi Yamamoto, Takashi Yoshino, Chigusa Kita, Misa Takeshima,
 and Takashi Kato*

User Studies

A Study of the Feature of the Lovely Product Forms. 571
Wen-chih Chang and Ching-An Hsu

Induction of Human Behavior by Presentation of Environmental Acoustics. . . 582
*Eisuke Fujinawa, Sho Sakurai, Masahiko Izumi, Takuji Narumi,
 Osamu Houshuyama, Tomohiro Tanikawa, and Michitaka Hirose*

Modeling User’s Sentiment in User Segmentations: An Argumentation
 Approach for User Centered Design 595
María Paula González, Carlos I. Chesñevar, and Ramon Brena

Voice Control System and Multiplatform Use: Specialist Vs. Generalist? 607
Soyoung Jung, Kwan Min Lee, and Frank Biocca

This Study of Hand Anthropometry and Touchscreen Size of Smartphones . . .	617
<i>Yu-Cheng Lin and Ming-Hung Lin</i>	
Internet Users’ Legal and Technical Perspectives on Digital Legacy Management for Post-mortem Interaction	627
<i>Cristiano Maciel, Vinicius Carvalho Pereira, and Monica Sztern</i>	
Analysis Using Purchasing Data in Japan.	640
<i>Ryota Morizumi and Yumi Asahi</i>	
Changing Drinking Behavior and Beverage Consumption Using Augmented Reality	648
<i>Eiji Suzuki, Takuji Narumi, Sho Sakurai, Tomohiro Tanikawa, and Michitaka Hirose</i>	
Learning to Manage NextGen Environments: Do Student Controllers Prefer to Use Datalink or Voice?	661
<i>Alice Winter, John Sweet, Yuri Trujillo, Adriana Miramontes, Sam Curtis, Karen Sanchez, Kim-Phuong L. Vu, and Thomas Z. Strybel</i>	
An Observation of Human Comprehension Through Wood Joints Assembly of a Cube Puzzle	668
<i>Thongthai Wongwichai and Takamitsu Tanaka</i>	
The Research of the Influence of Customer Perceived Value to Customer Satisfaction in Mobile Games.	678
<i>Kailiang Zhang and Yumi Asahi</i>	
Erratum to: Uncertainty Visualization Framework for Improving Situational Awareness in Emergency Management Systems	E1
<i>Natália Pereira de Oliveira, Leonardo Castro Botega, Lucas César Ferreira, and Márcio Roberto de Campos</i>	
Author Index	689

Contents – Part II

Context Modelling and Situational Awareness

Multi-criteria Fusion of Heterogeneous Information for Improving Situation Awareness on Emergency Management Systems	3
<i>Valdir Amancio Pereira Jr., Matheus Ferraroni Sanches, Leonardo Castro Botega, Jessica Souza, Caio Saraiva Coneglian, Elvis Fusco, and Márcio Roberto de Campos</i>	
Situational Transformation of Personal Space	15
<i>Yosuke Kinoe and Nami Mizuno</i>	
A Method for Calculating Air Traffic Controller Communication Complexity	25
<i>Zach Roberts, Blake Arnsdorff, James Cunningham, and Dan Chiappe</i>	
Conceptual Framework to Enrich Situation Awareness of Emergency Dispatchers	33
<i>Jessica Souza, Leonardo Castro Botega, José Eduardo Santarém Segundo, Claudia Beatriz Berti, Márcio Roberto de Campos, and Regina Borges de Araújo</i>	
Using Eye Movements to Test Assumptions of the Situation Present Assessment Method	45
<i>Lindsay Sturre, Dan Chiappe, Kim-Phuong L. Vu, and Thomas Z. Strybel</i>	
Map-Based Linking of Geographic User and Content Profiles for Hyperlocal Content Recommendation	53
<i>Steven Verstockt, Viktor Slavkovikj, and Kevin Baker</i>	
Scene Feature Recognition-Enabled Framework for Mobile Service Information Query System	64
<i>Yi-Chong Zeng, Ya-Hui Chan, Ting-Yu Lin, Meng-Jung Shih, Pei-Yu Hsieh, and Guan-Lin Chao</i>	

Decision-Support Systems

What Methodological Attributes Are Essential for Novice Users to Analytics? – An Empirical Study	77
<i>Supunmali Ahangama and Danny Chiang Choon Poo</i>	

What Should I Read Next? A Personalized Visual Publication Recommender System	89
<i>Simon Bruns, André Calero Valdez, Christoph Greven, Martina Ziefle, and Ulrik Schroeder</i>	
The Effect of Timing When Introducing a Decision Aid in a Decision Support System for Supply Chain Management	101
<i>Nirit Gavish and Hussein Naseraldin</i>	
Design of Framework for Students Recommendation System in Information Technology Skills	109
<i>Thongchai Kaewkiriya</i>	
Improving Knowledge Management in Patient Safety Reporting: A Semantic Web Ontology Approach	118
<i>Chen Liang and Yang Gong</i>	
Human Error and e-Navigation: Developing the Nautical Chart as Resilient Decision Support	129
<i>Thomas Porathe</i>	
Dealing with Data Deluge at National Funding Agencies: An Investigation of User Needs for Understanding and Managing Research Investments	140
<i>Mihaela Vorvoreanu, Ann McKenna, Zhihua Dong, and Krishna Madhavan</i>	
Dot Matrix Analysis of Plant Operation Data for Identifying Sequential Alarms Triggered by Single Root Cause	152
<i>ZheXing Wang and Masaru Noda</i>	
An Analysis of the Synergistic Effect in the Advertisement: Between the Television Commercials and the Internet Commercials	159
<i>Tadahiro Yamada, Yumi Asahi, and Katsuhiko Yuura</i>	
Information and Interaction for Driving	
Development of a New Low Cost Driving Simulation for Assessing Multidimensional Task Loads Caused by Mobile ICT at Drivers’ Workplaces. – <i>Objective-Fidelity Beats Equipment-Fidelity?</i>	173
<i>Michael Bretschneider-Hagemes</i>	
Differences in Driver Distractibility Between Monolingual and Bilingual Drivers	180
<i>Isis Chong and Thomas Z. Strybel</i>	
Urban Driving: Where to Present What Types of Information – Comparison of Head-Down and Head-Up Displays	190
<i>Martin Götze and Klaus Bengler</i>	

Information Sharing System Based on Situation Comprehensions of Intelligent Vehicles to Improve Drivers’ Acceptability for Proactive ADAS	201
<i>Takuma Ito, Tatsuya Shino, and Minoru Kamata</i>	
An Analysis of Ear Plethysmogram for Evaluation of Driver’s Mental Workload Level	213
<i>Ahmad Khushairy Makhtar and Makoto Itoh</i>	
Education Method for Safe Bicycle Riding to Evaluate Actual Cycling Behaviors When Entering an Intersection	225
<i>Hiroaki Kosaka and Masaru Noda</i>	
Self-perception of Assister Driver Responsibility and Contribution in Mutual Assistance System	233
<i>Sui Kurihashi, Yutaka Matsuno, and Kenji Tanaka</i>	
Map Matching to Correct Location Error in an Electric Wheel Chair	243
<i>Yuta Noriduki, Hirotoshi Shibata, Shigenori Irooi, and Hiroshi Tanaka</i>	
Driving Evaluation of Mild Unilateral Spatial Neglect Patients–Three High-Risk Cases Undetected by BIT After Recovery	253
<i>Tasuku Sotokawa, Takuya Murayama, Junko Noguchi, Yoko Sakimura, and Makoto Itoh</i>	
Effect of Adaptive Caution on Driver’s Lane-Change Behavior under Cognitively Distracted Condition	262
<i>Huiping Zhou and Makoto Itoh</i>	
Information and Interaction for Learning and Education	
Hand-Raising Robot for Promoting Active Participation in Classrooms	275
<i>Saizo Aoyagi, Ryuji Kawabe, Michiya Yamamoto, and Tomio Watanabe</i>	
Development of a Learning Support System for Class Structure Mapping Based on Viewpoint	285
<i>Tatsuya Arai, Takahito Tomoto, and Takako Akakura</i>	
A Ubiquitous Lecture Archive Learning Platform with Note-Centered Approach	294
<i>Shinobu Hasegawa and Jiangning Dai</i>	
Analysis of the Relationship Between Metacognitive Ability and Learning Activity with Kit-Build Concept Map	304
<i>Yusuke Hayashi and Tsukasa Hirashima</i>	

The Effect of Problem Sequence on Students' Conceptual Understanding in Physics	313
<i>Tomoya Horiguchi, Takahito Tomoto, and Tsukasa Hirashima</i>	
A Topic Model for Clustering Learners Based on Contents in Educational Counseling	323
<i>Takatoshi Ishii, Satoshi Mizoguchi, Koji Kimita, and Yoshiki Shimomura</i>	
Method to Generate an Operation Learning Support System by Shortcut Key Differences in Similar Software	332
<i>Hajime Iwata</i>	
Learning State Model for Value Co-Creative Education Services.	341
<i>Koji Kimita, Keita Muto, Satoshi Mizoguchi, Yutaro Nemoto, Takatoshi Ishi, and Yoshiki Shimomura</i>	
Development of a Seminar Management System.	350
<i>Yusuke Kometani and Keizo Nagaoka</i>	
Analysis of Multiple-Choice Tests Through Erroneous Choices Using a Technique of Automatic Problem Generation	362
<i>Noriyuki Matsuda, Hisashi Ogawa, Tsukasa Hirashima, and Hirokazu Taki</i>	
Proposal of an Instructional Design Support System Based on Consensus Among Academic Staff and Students.	370
<i>Shuya Nakamura, Takahito Tomoto, and Takako Akakura</i>	
Development of a Speech-Driven Embodied Entrainment Character System with Pupil Response	378
<i>Yoshihiro Sejima, Yoichiro Sato, Tomio Watanabe, and Mitsuru Jindai</i>	
Development of a Learning Support System for Reading Source Code by Stepwise Abstraction.	387
<i>Keisuke Watanabe, Takahito Tomoto, and Takako Akakura</i>	
Information and Interaction for Culture and Art	
Virtual Jizai-Ryu: Hi-Fidelity Interactive Virtual Exhibit with Digital Display Case	397
<i>Yuki Ban, Takashi Kajinami, Takuji Narumi, Tomohiro Tanikawa, and Michitaka Hirose</i>	
Next Step of Cultural and Creative Products - Embracing Users Creativity. . .	409
<i>Chia-Ling Chang and Ming-Hsuan Hsieh</i>	

Association of National Dimensions of Culture with Perceived Public Sector Corruption 420
Denis A. Coelho

K-Culture Time Machine: Development of Creation and Provision Technology for Time-Space-Connected Cultural Contents 428
Taejin Ha, Younsung Kim, Eunseok Kim, Kihong Kim, Sangmin Lim, Seungmo Hong, Jeain Kim, Sunhyuck Kim, Junghwa Kim, and Woontack Woo

Experience Simulator for the Digital Museum. 436
Yasushi Ikei, Seiya Shimabukuro, Shunki Kato, Kohei Komase, Koichi Hirota, Tomohiro Amemiya, and Michiteru Kitazaki

Virtual Aquarium: Mixed Reality Consisting of 3DCG Animation and Underwater Integral Photography 447
Nahomi Maki and Kazuhisa Yanaka

Enhancing Abstract Imaginations of Viewers of Abstract Paintings by a Gaze Based Music Generation System 457
Tatsuya Ogusu, Jun Ohya, Jun Kurumisawa, and Shunichi Yonemura

Supporting Work and Collaboration

Possible Strategies for Facilitating the Exchange of Tacit Knowledge in a Team of Creative Professionals. 467
Søren R. Frimodt-Møller, Nanna Borum, Eva Petersson Brooks, and Yi Gao

Innovation Compass: Integrated System to Support Creativity in Both Individuals and Groups 476
Yoshiharu Kato, Tomonori Hashiyama, and Shun'ichi Tano

Automatic Generation of Integrated Process Data Visualizations Using Human Knowledge 488
Felix Mayer, Ulrich Bühner, Dorothea Pantförder, Denise Gramß, and Birgit Vogel-Heuser

A Head-up Display with Augmented Reality and Gamification for an E-Maintenance System: Using Interfaces and Gamification to Motivate Workers in Procedural Tasks 499
Allan Oliveira, Nahana Caetano, Leonardo Castro Botega, and Regina Borges de Araújo

Representation Model of Collaboration Mechanism with Channel Theory. 511
Patchanee Patitad and Hidetsugu Suto

Using Wearable and Contextual Computing to Optimize Field Engineering Work Practices	522
<i>Roberto S. Silva Filho, Ching-Ling Huang, Anuj Tewari, James Jobin, and Piyush Modi</i>	

Information and Interaction for Safety, Security and Reliability

SAW-Oriented User Interfaces for Emergency Dispatch Systems.	537
<i>Leonardo Castro Botega, Lucas César Ferreira, Natália Pereira de Oliveira, Allan Oliveira, Claudia Beatriz Berti, Vânia Paula de Neris, and Regina Borges de Araújo</i>	

A Method for Generation and Check of Alarm Configurations Using Cause-Effect Matrices for Plant Alarm System Design	549
<i>Takashi Hamaguchi, B. Mondori, Kazuhiro Takeda, Naoki Kimura, and Masaru Noda</i>	

Parking Autonomous Skids	557
<i>James Hing, Ross Boczar, and Kyle Hart</i>	

SAFT: Firefighting Environment Recognition Improvement for Firefighters . . .	569
<i>Jin Hyun Park, In Jin Baek, and Su Ji Han</i>	

Modelling of a Business Process for Alarm Management Lifecycle in Chemical Industries	579
<i>Kazuhiro Takeda, Takashi Hamaguchi, Naoki Kimura, and Masaru Noda</i>	

Disaster Recovery Framework for e-Learning Environment Using Private Cloud Collaboration and Emergency Alerts	588
<i>Satoshi Togawa and Kazuhide Kanenishi</i>	

Information and Interaction for in Novel Advanced Environments

Study About Creation of “Maai” Involving Intention Using Rhythm Controller: Development of Maai Creating Agent and Interaction Experiments Between Human and Agent	599
<i>Shiroh Itai and Yoshiyuki Miwa</i>	

Designing the Embodied Shadow Media Using Virtual Three-Dimensional Space.	610
<i>Yusuke Kajita, Takuto Takahashi, Yoshiyuki Miwa, and Shiroh Itai</i>	

Kick Extraction for Reducing Uncertainty in RoboCup Logs	622
<i>Tomoharu Nakashima, Satoshi Mifune, Jordan Henrio, Oliver Obst, Peter Wang, and Mikhail Prokopenko</i>	

Virtual Bogie: Exhibition System to Understand Mechanism of Bogie with Digital Display Case	634
<i>Tomohiro Tanikawa, Hiroshi Ohara, Ryo Kiyama, Takuji Narumi, and Michitaka Hirose</i>	
Fortune Air: An Interactive Fortune Telling System Using Vortex Air Cannon	646
<i>Ryoko Ueoka and Naoto Kamiyama</i>	
Development of the Horror Emotion Amplification System by Means of Biofeedback Method	657
<i>Ryoko Ueoka and Kouya Ishigaki</i>	
Application of the Locomotion Interface Using Anthropomorphic Finger Motion	666
<i>Yusuke Ujitoko and Koichi Hirota</i>	
Considering a New Nanbu Fuurin Design that Play a Healing Sound – Including Innovations in Appearance and Texture, and Continually Improving–	675
<i>Ying Zhang and Takamitsu Tanaka</i>	
Author Index	685