

2008 IEEE 8th International Conference on Computer and Information Technology

**Sydney, Australia
8-11 July 2008**

Pages 1-443



IEEE Catalog Number:
ISBN 13:

CFP08355-PRT
978-1-4244-2357-6

Table of Contents

Keynote I: High Dimensional Data Analysis in Computer Vision	1
<i>David Suter</i>	
Keynote II: Ubiquitous/Pervasive Intelligence: Visions and Challenges	2
<i>Laurence Tianruo Yang</i>	
Keynote III: Detection and Traceback of DDoS Attacks	3
<i>Wanlei Zhou</i>	
Keynote IV: Dynamic Mobility Management	4
<i>Albert Y. Zomaya</i>	
Linear Mesh Deformation with Snake Constraint	5
<i>Qiuer Xu, Xiuzi Ye, SanYuan Zhang, Yin Zhang</i>	
Triangulation of Implicit Surfaces Based on Particle System	12
<i>Yuanfeng Zhou, Caiming Zhang, Pengbo Bo, Weitao Li</i>	
A New Volume-Data Resampling Method for Shear-Warp Rendering Algorithm	18
<i>Zenghai Hu, Caiming Zhang, Yuanfeng Zhou</i>	
A Software Environment for Practical Graph Applications	24
<i>Wei Lai</i>	
An Improved Method of Parallax Mapping	30
<i>Ronghua Gao, Baocai Yin, Dehui Kong, Yong Zhang, Huilin Si</i>	
Using Grid for Accelerating Density-Based Clustering	35
<i>Shaaban Mahran, Khaled Mahar</i>	
Fast Variable Block Motion Estimation Based on Adaptive Search for H.264/AVC System	41
<i>Shih-Chang Hsia, Po-Yi Hong</i>	
Sequence-Based SOM: Visualizing Transition of Dynamic Clusters	47
<i>Ken-ichi Fukui, Kazumi Saito, Masahiro Kimura, Masayuki Numao</i>	
A Fast Algorithm for Cofactor Implication Checking and Its Application for Knowledge Discovery	53
<i>Shin-ichi Minato</i>	
(p^+, α)-Sensitive k-Anonymity: A New Enhanced Privacy Protection Model	59
<i>Xiaoxun Sun, Hua Wang, Jiuyong Li, Traian Marius Truta, Ping Li</i>	
A Hybrid Approach to Automatic Text Summarization	65
<i>Te-Min Chang, Wen-Feng Hsiao</i>	
Dimension Reduction Using Least Squares Regression in Multi-Labeled Text Categorization	71
<i>Cheong Hee Park</i>	
Mining Top-K Closed Itemsets Using Best-First Search	77
<i>Panida Songram, Veera Boonjing</i>	
An Extended Exponential Index Scheme for Multi-Disk Broadcast in a Single Wireless Channel	83
<i>Kiyoung Park, Sungwon Jung</i>	
The Analysis of Research Fields of Chinese Natural Science Funds Based on Text Classification	89
<i>Yanzhong Dang, Zhaoguo Xuan, Li Chen</i>	
The Study on Detecting Near-Duplicate WebPages	95
<i>YuJuan Cao, ZhenDong Niu, WeiQiang Wang, Kun Zhao</i>	
Parallel High-Dimensional Index Structure for Content-Based Information Retrieval	101
<i>Jaewoo Chang, Ahreum Lee</i>	
Materialization-Based Query Processing Algorithms on Road Networks	107
<i>Ahreum Lee, Ahreum Kim, Jaewoo Chang</i>	

Table of Contents

A New Implementation of Similar Segment Search in an Arbitrary Number of Time-Series.....	113
<i>Kosuke Sugai, Masahide Sugiyama</i>	
Detecting and Tracing Plagiarized Documents by Reconstruction Plagiarism-Evolution Tree.....	119
<i>Chang-Keon Ryu, Hyong-Jun Kim, Seung-Hyun Ji, Gyun Woo, Hwan-Gue Cho</i>	
KLNCC: A New Nonlinear Correlation Clustering Algorithm Based on KL-Divergence	125
<i>Chaofeng Sha, Xipeng Qiu, Aoying Zhou</i>	
Cost-Sensitive Semi-Supervised Classification Using CS-EM.....	131
<i>Zhenxing Qin, Shichao Zhang, Li Liu, Tao Wang</i>	
Dynamic Information Integration Using Object Deputy Model.....	137
<i>Junqiang Liu, Xiaoling Guan</i>	
An Indexing Scheme for Efficient Camera Angle Invariant Image Retrieval.....	143
<i>Yoon-Sik Tak, Eenjun Hwang</i>	
Application of Calendar-Based Temporal Classification to Forecast Customer Load Patterns from Load Demand Data.....	149
<i>Heon Gyu Lee, Bum Ju Lee, Jin-ho Shin, Long Jin, Cheng Hao Jin, Keun Ho Ryu</i>	
Constraint Optimization for a System of Relational Databases	155
<i>Soumya Burugu, Praveen Madiraju, Hamidah Ibrahim</i>	
Design Issues of XTQ Language.....	161
<i>Xuhui Li, Mengchi Liu</i>	
Schemaless Approach of Mapping XML Document into Relational Database.....	167
<i>Ibrahim Dweib, Ayman Awadi, Seif Elduola Fath Elrhman, Joan Lu</i>	
Using CBIR and Semantics in 3D-Model Retrieval.....	173
<i>Raoul Pascal Pein, Milton Amador, Joan Lu, Wolfgang Renz</i>	
An Extensible Query Language for Content Based Image Retrieval Based on Lucene	179
<i>Raoul Pascal Pein, Joan Lu, Wolfgang Renz</i>	
Extending Dependencies with Conditions for Data Cleaning.....	185
<i>Wenfei Fan</i>	
Identifying Insightful Salinity and Temperature Variations in Ocean Data.....	191
<i>Yo-Ping Huang, Li-Jen Kao, Frode-Eika Sandnes</i>	
A New Join-Less Approach for Co-Location Pattern Mining	197
<i>Lizhen Wang, Yuzhen Bao, Joan Lu, Jim Yip</i>	
A Bank Customer Credit Evaluation Based on the Decision Tree and the Simulated Annealing Algorithm	203
<i>Yi Jiang, Yan Chen, Zhimin Zeng, Xiangjian He</i>	
Power Consumption Reduction Scheme Focusing on the Depth of Speculative Execution	207
<i>Hideki Oshima, Ryotaro Kobayashi, Kazuki Shimura, Toshio Shimada</i>	
A Multi-Service Token Bucket Algorithm for MAC QoS System in HFC Access Network	213
<i>Xiaotong Zhang, Peiya Li, Qin Wang, Chong Li</i>	
FARS: A Page Replacement Algorithm for NAND Flash Memory Based Embedded Systems	218
<i>Ohhoon Kwon, Hyokyung Bahn, Kern Koh</i>	
A New Reliability Evaluation Method for Embedded System.....	224
<i>Jie Yu, Xuehai Zhou</i>	
Implementation and Evaluation of an On-Device Customizable User Interface for Smart Devices.....	231
<i>Eigo Okada, Xiaojin Sun, Mitsuko Sato, Yukikazu Nakamoto</i>	
Efficient Multiplierless Channel Filters for Multi-Standard SDR.....	237
<i>Douglas L. Maskell, A.P. Vinod</i>	

Table of Contents

A Modified Interactive Oriented Scheduler for GUI-Based Embedded Systems	243
<i>Li Lo, Liang-Teh Lee, Huang-Yuan Chang</i>	
Learn Adaptive Dynamic Policy Under Mixed Multi-Agent Environment.....	249
<i>Zheng Xiao, Shiyong Zhang</i>	
Array Processor Featuring an Effective FIFO-Based Data Stream Management.....	255
<i>Toshiaki Miyazaki, Yuusuke Nomoto, Yuka Sato, Stanislav G. Sedukhin</i>	
Detection of First Races for Debugging Message-Passing Programs	261
<i>Mi-Young Park, Sang-Hwa Chung</i>	
Model-Guided Strip Size Selection for Minimal Execution Time on Imagine Stream Processor.....	267
<i>Jing Du, Yuhua Tang, Fujiang Ao, Tao Tang, Xuejun Yang</i>	
A Novel Management Architecture for Large-Scale Server Cluster.....	273
<i>Zhenghua Xue, Xiaoshe Dong, Shengqun Fan</i>	
Using MPI to Execute a FuzzyCLIPS Application in Parallel in Heterogeneous Computing Systems.....	279
<i>Chao-Chin Wu, Lien-Fu Lai, Yu-Shuo Chang</i>	
A Flow-Based Prediction Scheme to Manage Resources in Enterprise Data Centers.....	285
<i>Hyunsik Choi, Kwonyong Lee, Sungyong Park</i>	
Acceleration of a Finite-Difference Method with General Purpose GPUs --- Lesson Learned	291
<i>A. Balevic, L. Rockstroh, W. Li, J. Hillebrand, S. Simon, A. Tausendfreund, S. Patzelt, G. Goch</i>	
An Efficient Scheduling Algorithm for Grid Computing with Periodical Resource Reallocation	295
<i>Cho-Chin Lin, Chun-Wei Shih</i>	
Analysis of Planar Mirror Catadioptric Stereo Systems Based on Epipolar Geometry.....	301
<i>Hsien-Huang P. Wu, Soon-Lin Chen, Ping-Kuo Weng, Ying-Yih Wu</i>	
A Multiple Expert Algorithm for the Binarization of Korean Identity Card Images	307
<i>In Seop Na, Sang Cheol Park, Ji-Woong Kim, Soo Hyung Kim</i>	
Nose Detection Based Feature Extraction on Both Normal and Abnormal 3D Faces	312
<i>Wenhao Zhu, Yanyun Wang, Baogang Wei</i>	
A Performance Study on Deterministic Label Graph Matching Algorithm	317
<i>Yintang Dai, Shiyong Zhang</i>	
SVM Based ASM for Facial Landmarks Location	321
<i>Chunhua Du, Qiang Wu, Jie Yang, Zheng Wu</i>	
Feature Detection of Electrical Feeder Lines with Galloping Motion.....	327
<i>Hisato Aota, Yuichi Yaguchi, Ryuichi Oka</i>	
Low-Complexity Text Extraction in Korean Signboards for Mobile Applications	333
<i>Toan Dinh Nguyen, Jonghyun Park, Guesang Lee</i>	
Image Retrieval Based on Semantics of Intra-Region Color Properties.....	338
<i>Atul Sajjanhar, Guojun Lu, Dengsheng Zhang, Wanlei Zhou, Yi-Ping Phoebe Chen</i>	
Sand Grains Tracking in Dense Grain Image Sequences.....	344
<i>Chunli Wang, Dapeng Chai, Rui Ma, Xiaohui Lin, Chun Wang</i>	
Learning Graph Neighborhood Topological Order for Image and Manifold Morphological Processing.....	350
<i>Olivier Lezoray, Abderrahim Elmoataz, Vinh Thong Ta</i>	
A New Method for Image Resizing.....	356
<i>Caiqing Zhang, Caiming Zhang, Xuemei Li</i>	
Gabor Phase Embedding of Gait Energy Image for Identity Recognition	361
<i>Xiaochao Yang, Tianhao Zhang, Yue Zhou, Jie Yang</i>	

Table of Contents

An Improved Two-Layer SOM Classifier for Handwritten Numeral Recognition	367
<i>Shujing Lu, Xiao Tu, Yue Lu</i>	
A Hierarchically Combined Classifier for License Plate Recognition	372
<i>Lihong Zheng, Xiangjian He, Qiang Wu, Wenjing Jia, Bijan Samali, Marimuthu Palaniswami</i>	
Periodic Hidden Markov Model-Based Workload Clustering and Characterization	378
<i>Ning Li, Shun-Zheng Yu</i>	
Watermarking of Ordered Dither Halftone Images by Bit Interleaving	384
<i>Brian K. Lien, Chao-Yi Chang</i>	
ABDM: An Extended Flexible Delegation Model in RBAC.....	390
<i>Min Li, Hua Wang</i>	
Using a Mobile Device to Enhance Customer Trust in the Security of Remote Transactions.....	396
<i>Thair Al-Dala'in, Suhuai Luo, Peter Summons</i>	
Trusted Email Protocol: Dealing with Privacy Concerns from Malicious Email Intermediaries	402
<i>Julian Jang, Surya Nepal, John Zic</i>	
Identity Management Architecture: A New Direction	408
<i>Peter White</i>	
Data Privacy and Integrity Appropriate for Disk Protection	414
<i>Fangyong Hou, Dawu Gu, Nong Xiao, Yuhua Tang</i>	
Random Password Generation of OTP System Using Changed Location and Angle of Fingerprint Features	420
<i>ByungRae Cha, KyungJun Kim, HyunShik Na</i>	
Developing an Effective Watermarking Algorithm for Video Retrieval	426
<i>Mohd Afizi Mohd Shukran</i>	
An Overview of Recent Advances in Intrusion Detection	432
<i>Mohd Fadzli Marhusin, David Cornforth, Henry Larkin</i>	
Efficient Labeling Scheme of XML Data Considering Update Operations.....	438
<i>Dong Chan An, Seog Park</i>	
Group Decision Making Based on Computing with Linguistic Variables and an Example in Information System Selection.....	444
<i>Chen-Tung Chen, Hui-Ling Cheng</i>	
Architecture for Migratory Adaptive User Interfaces.....	450
<i>Takuto Yanagida, Hidetoshi Nonaka</i>	
Modeling and Knowledge Representation of Machine Element Design for Intelligent Design Support Systems	456
<i>Zhihua Zhang</i>	
Gender and Cultural Differences in Adoption of e-Business Infrastructure in UAE.....	462
<i>Fahim Akhter</i>	
Concurrency Control in Web Service Orchestration	466
<i>Juha Puustjarvi</i>	
A New Method on the Detection of Near-Replicas of Web Pages.....	473
<i>Jia-heng Zheng, Li-xia Wei, Hong-ye Tan</i>	
Primary Content Extraction with Mountain Model.....	479
<i>Lidong Bing, Yexin Wang, Yan Zhang, Hui Wang</i>	
Tag-Based User Modeling Using Formal Concept Analysis	485
<i>Yun Zhang, Boqin Feng</i>	

Table of Contents

Object Oriented Regular Expressions	491
<i>Henry Larkin</i>	
A New Session Management Method for Efficient Mobile Access to Web Applications.....	497
<i>Satoshi Munakata, Kunio Saito, Masahiro Hiji</i>	
A Semantic Approach for More Robust and Efficient Service Discovery	503
<i>Prakash Kadel, Ji-Ae Shin, Ho-Jin Choi</i>	
Optimizations for Query Index Updating in Finite Automaton Based XML Stream Filtering Systems	509
<i>Yongrui Qin, Weiwei Sun, Ping Yu, Zhuoyao Zhang</i>	
Online Conference System for Collaborative Work to Make Thematic Maps	515
<i>Manabu Kanzawa, Naru Hirata, Hirohide Demura, Noriaki Asada</i>	
A Compressing Method for Genome Sequence Cluster Using Sequence Alignment.....	520
<i>Kwang Su Jung, Nam Hee Yu, Seung Jung Shin, Keun Ho Ryu</i>	
Extraction of Exudates and Blood Vessels in Digital Fundus Images	526
<i>Giri Babu Kande, Satya Savithri T., Venkata Subbaiah P.</i>	
Investigating the Binding Area of Protein Surface Using MCL Algorithm.....	532
<i>Kwang Su Jung, Ki Jin Yu, Yong Je Chung, Keun Ho Ryu</i>	
Wavelet Shrinkage Applications of EEG-ECG-Based Human-Computer Interface	538
<i>Motoki Sakai, Daming Wei</i>	
Walking Stability Analysis by Age Based on Dynamic Time Warping.....	544
<i>Bofeng Zhang, Ke Yan, Susu Jiang, Daming Wei</i>	
Priority-Based R²CP for Multipoint-to-Point Video Streaming	549
<i>Jung-Shan Chien, Sheng-Ching Lin, Ray-I Chang, Chia-Hui Wang</i>	
Popularity and Prefix Aware Interval Caching for Multimedia Streaming Servers	555
<i>Ohhoon Kwon, Hyokyung Bahn, Kern Koh</i>	
A New Computation-Aware Scheme for Motion Estimation in H.264	561
<i>Chia-Yu Chang, Jin-Jang Leou, Shyi-Shiun Kuo, Hsuan-Ying Chen</i>	
Low Latency Overlay Construction for Peer-to-Peer Live Streaming	566
<i>Xinggong Zhang, Yan Pang, Zongming Guo</i>	
An Embedded Compression Algorithm Integrated with Motion JPEG2000 System for Reduction of Off-Chip Video Memory Bandwidth.....	571
<i>Chang Hoon Son, Seong Mo Park, Young Min Kim</i>	
Here and There: Experiencing Co-Presence Through Mixed Reality-Mediated Collaborative Design System	577
<i>Rui Wang, Xiangyu Wang</i>	
Fast Spotter: An Approximation Algorithm for Continuous Dynamic Programming.....	583
<i>Yuichi Yaguchi, Keitaro Naruse, Ryuichi Oka</i>	
An Adaptive Video Watermarking Technique Based on DCT Domain	589
<i>Cheng-Han Yang, Hui-Yu Huang, Wen-Hsing Hsu</i>	
A Parallel Architecture for GFA Modeling in Video Coding	595
<i>Abdel Ejnoui, Paul Bao</i>	
PeerCDN: A Novel P2P Network Assisted Streaming Content Delivery Network Scheme	601
<i>Jie Wu, Zhihui Lu, Bisheng Liu, Shiyong Zhang</i>	
TCP-Friendly Streaming Video System with Error-Resilient Coding Over Wireless Vertical Handover Environment.....	607
<i>Jae-Young Pyun, Ho-Jin Choi</i>	

Table of Contents

Enhancement of PAPR Reduction Using Dynamic PTS Algorithm in Multiple Antennas System.....	613
<i>Guo-fang Dong, Fei Gao, Jing Fan, Zi-bin Zhao</i>	
Challenges and Recent Advances in QoS Provisioning in Wireless Mesh Networks.....	618
<i>Shivanajay Marwaha, Jadwiga Indulska, Marius Portmann</i>	
Performance Analysis of an Adaptive Backoff Scheme for Ad Hoc Networks	624
<i>Jing Fan, Fei Gao, Wan-Sheng Wang, Guo-fang Dong</i>	
Performance Study of Video Streaming in Commercial UMTS Network.....	630
<i>Rachod Patachaianand, Kumbesan Sandrasegaran</i>	
An Approach to Select the Best Spanning Tree in Metro Ethernet Networks	634
<i>Ghasem Mirjalily, Mohammad Hadi Karimi, Fazlollah Adibnia, Shahram Rajai</i>	
Cooperative Channel Operation MAC Protocol for WLAN Based Indoor Cognitive Radio Network Systems	640
<i>Nan Hao, Jae-Kark Choi, Sang-Jo Yoo</i>	
Fast Group Scanning Scheme with Dynamic Neighbor Base Station List in IEEE 802.16e Networks	646
<i>Jae-Kark Choi, Nan Hao, Sang-Jo Yoo</i>	
Fuzzy Logic Based Modelling and Analysis of Network Traffic	652
<i>A. Rahman, P. Kennedy, A. Simmonds, J. Edwards</i>	
Towards Fair P2P Auctions Over MANETs	658
<i>Ines Doghri, Hella Kaffel-Ben Ayed</i>	
Applying Graph Coloring in Resource Coordination for a High-Density Wireless Environment	664
<i>Li Zheng, Doan B. Hoang</i>	
Pyro Implementation of Swarm-Bots Exploring Target Objects in an Area with Irregular Barriers.....	670
<i>Byung-Joon Lee, Hyun-Ju Jung, Gyun Woo, Sung-Youb Jung, Joon-Key Jeon</i>	
Improving the Performance of MPEG-4 Transmission in IEEE 802.15.3 WPAN.....	676
<i>Wei-Tsong Lee, Fong-Hao Liu, Hsiang-Fu Lo</i>	
Mobility Management Using Movement Feature for Next Generation Cellular Networks	682
<i>Daisuke Senzaki, Goutam Chakraborty</i>	
Asynchronous Mobile Web Services: Concept and Architecture.....	688
<i>Fahad Aijaz, Bilal Hameed, Bernhard Walke</i>	
A Novel Formal Framework for Secure Dynamic Services Composition.....	694
<i>Dong-Hong Xu, Yong Qi, Di Hou, Gong-Zhen Wang</i>	
Multi Run ICA and Surface EMG Based Signal Processing System for Recognising Hand Gestures	700
<i>Ganesh R. Naik, Dinesh K. Kumar, Marimuthu Palaniswami</i>	
Protecting Web Services with Service Oriented Traceback Architecture	706
<i>Ashley Chonka, Wanlei Zhou, Yang Xiang</i>	
A Gnutella Inspired Ubiquitous Service Discovery Framework for Pervasive Computing Environment	712
<i>Tianyin Xu, Baoliu Ye, Mitsunori Kubo, Arata Shinozaki, Sanglu Lu</i>	
Towards a Software Diagnosis Method Based on Rough Set Reasoning.....	718
<i>Chengying Mao, Xiaohua Hu, Yansheng Lu</i>	
An Analysis of Software Process Improvement for Sustainable Development in Thailand.....	724
<i>Suphak Suwanya, Weresak Kurutach</i>	
Dynamic Pull-Down Menu Organization in Run-Time by Analyzing Menu Selection Behaviors	730
<i>YoungJin Ro, Ho-Jin Choi, Dan Hyung Lee, In-Young Ko</i>	
An Approach to Non-Functional Requirements Analysis at Software Architecture Level.....	736
<i>Sima Emadi, Fereidoon Shams</i>	

Table of Contents

Software Usability Architectures.....	742
<i>Anastasis A. Sofokleous</i>	
Constructing a Chaos Proofing Pre-Development Framework to Manage Chaos in a Chaos-Prone Systems Development Environment	748
<i>Marini Othman, Abdullah Mohd Zin, Abdul Razak Hamdan</i>	
Trace Anonymity in the OTS/CafeOBJ Method.....	754
<i>Weiqiang Kong, Kazuhiro Ogata, Jian Cheng, Kokichi Futatsugi</i>	
Automated Generation of Product Use Case Scenarios in Product Line Development	760
<i>Woo-seok Choi, Sungwon Kang, Ho-Jin Choi, Jongmoon Baik</i>	
Non-Functional Property Specifications for WRIGHT ADL	766
<i>Basem Suleiman, Vladimir Tasic, Eldar Aliev</i>	
UMLSlicer: A Tool for Modularizing the UML Metamodel Using Slicing	772
<i>Jung Ho Bae, Heung Seok Chae</i>	
A New Parameterized String Matching Algorithm by Combining Bit-Parallelism and Suffix Automata	778
<i>Rajesh Prasad, Suneeta Agarwal</i>	
Utilizing Semantic Web 2.0 for Self-Reconfiguration of SOA Based Agent Applications in Intelligent Service Robots.....	784
<i>Jaejeong Lee, Jinhan Kim, Byungjeong Lee, Chisu Wu</i>	
Extending ATAM to Assess Product Line Architecture.....	790
<i>Taeho Kim, In-Young Ko, Sungwon Kang, Dan Hyung Lee</i>	
Module-Based Large-Scale Software Evolution Based on Complex Networks.....	798
<i>Tao Chen, Qing Gu, Shusen Wang, Xiaoan Chen, Daoxu Chen</i>	
The Research of Zero Packet Loss Hand-Off Mechanism in SIP-Based Wireless Networks	804
<i>Ching-Lung Chang, Jing-Chao Yang</i>	
A Context Representation and Management Mechanism Towards Ubiquitous Intelligence	809
<i>Luo Sun, Peng Dai, Linmi Tao, Guangyou Xu</i>	
Analysis and Improvement of the Dynamic Load Balancing of Overlay-Based WSN	815
<i>Hang Qin, Zhongbo Wu</i>	
MTT-Mobicast: Maneuvering Target Tracking Mobicast Protocol for Wireless Ad Hoc Sensor Networks.....	821
<i>Yi Wang, Jun Yang, Xinyu Yang, Deyun Zhang</i>	
Prediction Revision Strategies for Data Transmission in Wireless Sensor Networks	827
<i>Jun Yang, Yi Wang, Deyun Zhang</i>	
Time-Based Insertion Methods for Monitoring Sensor Data.....	833
<i>Yang Koo Lee, Ling Wang, Young Jin Jung, Hiseok Kim, Keun Ho Ryu</i>	
Combining Hierarchical Segmentation and Shape Context Based Recognition	839
<i>Fenglei Yang, Yue Lu, Ye Duan</i>	
Robust Background Extraction Scheme Using Histogram-Wise for Real-Time Tracking in Urban Traffic Video	845
<i>Anh-Nga Lai, Hyosun Yoon, Guesang Lee</i>	
A Visualization System of Source Codes Using FOL.....	851
<i>Min-Jung Bae, Jeong-Hoon Ji, Gyun Woo</i>	
Motion-Based Object Detection Using 3D Wave Digital Filters	857
<i>Sam Schauland, Joerg Velten, Anton Kummert</i>	

Table of Contents

Evaluation of a Method to Solve the Perspective- Two-Point Problem Using a Three-Axis Orientation Sensor	862
<i>Loic Merckel, Toyoaki Nishida</i>	
An FPGA Implementation of 30Gbps Security Module for GPON Systems	868
<i>Vinh Quang Truong, Ju-Hyun Park, Young-Chul Kim, Kwang-Ok Kim</i>	
An Efficient Verification of Quantum Circuits Under a Practical Restriction	873
<i>Shigeru Yamashita, Shin-ichi Minato, D. Michael Miller</i>	
Layer Assignment Considering Manufacturability in X-Architecture Clock Tree	880
<i>Chia-Chun Tsai, Wei-Shi Lin, Jan-Ou Wu, Chung-Chieh Kuo, Trong-Yen Lee</i>	
Arithmetic Precision of the Generalized Hebbian Algorithm for Hardware Implementation	886
<i>Kaai Kojima, Yuichi Okuyama, Kenichi Kuroda</i>	
Implementation of a Combined Autocorrelation Method for Real-Time Tissue Elasticity Imaging on FPGA	891
<i>Daisuke Ohwada, Yuichi Okuyama, Kenichi Kuroda</i>	