

2015 International Conference on Informatics, Electronics & Vision (ICIEV 2015)

**Fukuoka, Japan
15 – 18 June 2015**



IEEE Catalog Number: CFP1544S-POD
ISBN: 978-1-4673-6903-9

2015 International Conference on Informatics, Electronics & Vision (ICIEV)

15-18 June, 2015

Kitakyushu International Conference Center, Fukuoka, Japan

Table of Contents

Paper ID is the same as PDF ID or File name of each PDF, as 'Papers.pdf'

*Paper ID	Paper Title
3	Novel Approach of IPMC Actuated Finger for Micro-Gripping....1
7	Non-contact Auto Identification and Spatial Information Detection Based on Ring Code....7
11	Analysis of String encoding functions during de-duplication process....12
19	Android-Based Framework for Increasing Marriage Satisfaction based on Psychological Aspects....18
25	Comparison of a Modified Spanish phonetic, Soundex, and Phonex coding functions during data matching process....23
30	Human Daily Activity Recognition with Joints plus Body Features Representation Using Kinect Sensor....28
31	Hand Sign Classification Techniques Based on Forearm Electromyogram Signals....34
32	Image Quality Assessment With Visual Sensitivity....40
34	IR-UWB Transceiver for the Detection of Survivors Buried in Debris....44
37	The Humor Continuum: From Text to Smart Environments (Keynote Paper)....50
42	New Feasible Grouping Algorithms for Virtual Link in AFDX Networks....60
44	Extraction of Mechanoluminescent Pattern Based on Afterglow Images....64
45	A Homogeneous Region Based Methodology for Text Extraction from Natural Scene Images....68
47	Multicast Protection Problem on Elastic Optical Networks Using Segment-base Protection....74
51	Cross-Layer Mobility-Aware MAC Protocol for Cognitive Radio Sensor Network....80
52	Intelligent Path Guidance Robot for Blind Person Assistance....86
58	The Support for using the Cognitive Reliability and Error Analysis Method (CREAM) for Marine Accident Investigation....91
59	Unknown Object Extraction for Robot Partner using Depth Sensor....95
62	EMG Signals in Co-Activations of Lower Limb Muscles for Knee Joint Analysis....101
63	Constrained Solid Travelling Salesman Problem Using Adaptive Genetic Algorithm in Uncertain Environment....106
64	Making the Cloud Energy Efficient- An Approach to Make the Data Centers Greener....112
65	A Vision based Landing Spot Searching for Unmanned Aerial Vehicle using Satellite Image....117
66	An Example of an Accident Analysis of Aircrafts Based on Human Reliability Analysis Method....123
67	A Study on Application to Marine Accident of Human Reliability Analysis Method....128
68	A Spatiotemporal Motion Variation Features Extraction Approach for Human Tracking and Pose-based Action Recognition....132
70	A Bread Recognition System using RGB-D Sensor....138
73	Genetic Algorithm and Local Search Comparison for Solving Bi-objective p-Median Problem....142
74	An Application of Cuckoo Search Algorithm for Solving Combined Economic and Emission Dispatch Problem....147
75	Training LSSVM with GWO for Price Forecasting....152

76	An Extraction and Recognition Method for Partially Hidden Objects....158
77	A Privacy-preserving Crowd Movement Analysis by k-member Clustering of Face Images....162
78	A Semi-supervised Fuzzy Co-clustering Framework and Application to Twitter Data Analysis....167
79	A Study on Partition Quality of Fuzzy Co-clustering with Exclusive Item Memberships....171
80	A Study of Automatic Classification of Sleeping Position by a Pressure-sensitive Sensor....175
84	Visual Saliency of Character Feature in an Image....180
85	A Framework of a Smart System for Prepaid Electric Metering Scheme....185
86	A Novel Method of Organisation of a Software Defined Network Control System....190
88	A Simple Imaging Technique Attributed to the Dynamic Motion of Knee Joint....194
89	Multi-channel Bayesian Adaptive Resonance Associative Memory for Environment Learning and Topological Map Building....199
90	Feature selection of manifold learning using principal component analysis in brain MR image....204
92	Static Output Feedback Control Design for Takagi-Sugeno Descriptor Fuzzy Systems....209
95	A Hardware Approach for Organisation of Software Defined Network Switches based on FPGA....213
96	An Adaptive Distance-based Edge Preserving Interpolation Algorithm for Natural Images....217
97	Integrating motion controlled interface and mobility into 3D PACS for surgery....222
98	Automatic CT Image Segmentation of the Lungs with An Iterative Chan-Vese Algorithm....226
99	Improvement in Power Quality using Fryze Conductance Algorithm controlled Grid connected Solar PV system....230
101	Tele-Assistance System for the Blinds using Video-Call with Remote Scene Construction....235
102	FRIT Based PI Tuning for Speed Control of PMSM using FPGA for High Frequency SiC MOSFET Inverter....240
104	Face Recognition using Euler Principal Component Analysis....245
105	An Ada-Random Forests Based Grammatical Facial Expressions Recognition Approach251
108	Design of elder-friendly auditory signals for microwave ovens....257
109	3D Interactive Trace Teaching System with Anatomical Model....261
110	Improving Parameter Estimation in Dynamic Casual Modeling with Artificial Bee Colony Optimization265
111	A Two-Stage Approach to 2D DOA Estimation for a Compact Circular Microphone Array....271
112	Design and Development of Multi-Nozzle Extrusion System for 3D Printer....277
113	An Extremely Randomized Trees Approach for Gesture Unit Segmentation....282
115	An Autonomous Industrial Robot for Loading and Unloading Goods....287
119	Search Performance for Solving Combinatorial Optimization Problems by a Hopfield Network with Applying Iterative Partial Constraints....293
121	People Re-identification Using 3D Descriptor with Skeleton Information....299
126	An Inductive Transducer based Pressure Sensor for Biomedical Applications....304
127	Timing SCA Against HMAC to Investigate from the Execution Time of Algorithm Viewpoint....309
128	A Novel Idea of Coupling Licensed and Unlicensed Users Using Distributed Harmonizing Algorithm (DHL) in Cognitive Radio Networks (CRNs)....315
130	An Evaluation of Page Segment Recommendation System using User's Notes and N-Gram Models....321
132	Multicolor and Multiple QR Code based Information Support System during Disaster for Elderly People....327
134	Improvement of Automatic Fire Extinguisher System for Residential Use....333
135	Compensation for Harmonic Flux and Current of Permanent Magnet Synchronous Motor by Harmonic Voltage....337

136	Depth Measurement Method with Applying Stereo Vision to One-Dimensional Brightness Distribution Sensors....342
138	An Extending Method of Operable Distance for Infrared Remote Controlled Power Switch with Zero Stand-by Power....348
141	Development of 3D Printer with Integrated Temperature Control System....353
147	Tanker Truck Scheduling using Evolutionary Computation with GPGPU....359
148	A study of Recursive Least Squares (RLS) adaptive filter algorithm in noise removal from ECG signals....363
150	Development of Battery-Shaped Device Unified Communication Line and Power Line....369
152	Fire Detection System with Indoor Localization using ZigBee based Wireless Sensor Network....373
153	Design and Navigation Prospective for Wireless Power Transmission Robot....379
154	Automated Blog Feedback Prediction with Ada-Boost Classifier....385
155	Future Internet Technologies: Hybrid CO-OFDM-TWDM PON and WLAN System for Fi-Wi Amelioration....390
156	On Relationship Analysis of Health Examination Items Using Self-Organizing Maps....396
157	Optical biosensor chip technology for biochemical oxygen demand monitoring in environmental samples....402
158	Design and Implementation of an Efficient Bangla DeConverter for generating Bangla Sentences from UNL Expression....407
159	SVD Aided Eigenvector Decomposition to Compute PCA and it's Application in Image Denoising....413
160	A Simple Sheet Bending Recognition for Augmenting a Two-dimensional Marker-based Response Analyzer....419
162	Lifelog Visualization for Elderly Health Care in Informationally Structured Space....423
173	Cattle Classifications System using Fuzzy K- Nearest Neighbor Classifier....429
174	Multiple Drosophila Tracking and Posture Estimation Algorithm....434
176	A Development of Tension and Length Measurement System for Knee Bending Motion in Medial Patello-Femoral Ligament Reconstruction....440
177	Enhanced Absorption of Solar Energy in Elliptical GaAs Nanowire Array Solar Cells....444
178	Tracking Small Object by Image Processing on Smart Phone....448
179	Study of TLC Application for 1 Mbit Embedded Non-overlapped implantation NVM....452
181	Scene Recognition Based on Gradient Feature for Autonomous Mobile Robot and Its FPGA Implementation....456
182	FPGA-based Stereo Vision System Using Census Transform for Autonomous Mobile Robot....460
183	3D Map Construction Based on Structure from Motion Using Stereo Vision....464
184	Stretchable Wiring for Human Monitoring Device on Transportation Systems....469
185	Precise Analysis of Head Deformation at Falling Shock473
186	Model Study of Composite Particle Production in Medium-energy Nuclear Reaction.... 478
187	Classical Vector Analysis to Study Angular Momentum of Evaporated Protons....482
188	The possibility of the deterioration of Autonomic nerve activity in depression....486
191	Surface structure study and structure determination of ($\sqrt{3}\times\sqrt{3}$)R 30° phase of Si-adsorption on Ni(111) by LEED....490
192	A Pilot decontamination approach using constrained optimization and subspace method for uplink Multiuser MIMO system....495
193	A Study on Keyword Detection Using Weighted Similarity and Character Sequence for Low-resolution Medical Documents....501