2013 IEEE Second International Conference on Image Information Processing

(ICIIP 2013)

Shimla, India 9 – 11 December 2013



IEEE Catalog Number: CFP1369N-POD **ISBN:**

978-1-4673-6102-6





Seq	Paper ID	Title	Page No.
1	1569781185	Lunar Impact Crater Modeling Using Trinocular Stereoscopic Depth Inpainting	1
2	1569786075	Reliability Assessment and Prediction of Open Source Software Systems	6
3	1569778041	Offline Signature Verification System Using Grid and Tree Based Feature Extraction	No show
4	1569787389	Fast Epipolar Resampling of Trinocular Linear Scanners Images Using Chandrayaan-1 TMC Dataset	12
5	1569787463	Development of Machine Vision Solution for Grading of Tasar Silk Yarn	17
6	1569788125	An Adaptive Seed Point Selection Technique for Segmentation of Polarimetric Synthetic Aperture Radar Images	21
7	1569790881	Hybrid 3D Registration Approach Using RGB and Depth Images	27
8	1569791249	Indian Topographic Map Symbols Understanding System	33
9	1569791515	Use of Computer Vision to Detect Tangles in Tangled Objects	39
10	1569791569	Robust Self Localization by Edge Feature Tracking	45
11	1569787969	Mu-MoR: Multiple Moving Object Recognition Using Gabor- PCA Approach	No Show
12	1569791697	Virtual Walkthrough of Data Centre	51
13	1569793839	A Variational Approach for Optical Flow Estimation in Infra-Red or Thermal Images	56
14	1569794471	Saudi Riyal Coin Detection and Recognition	62
15	1569795161	3D Modeling of Indoor Environments Using KINECT Sensor	67







16	1569795817	A Probabilistic Method of Skin Detection	73
17	1569800293	Performance Evaluation of Localized Person Based Scene Detection and Retrieval in Video	78
18	1569802953	A Study of Stochastic Algorithms for 3D Articulated Human Body Tracking	84
19	1569790033	ToA Localization Using Two BTSs and Three BTSs with Dual Circle in GSM Network	No Show
20	1569810885	Depth and Scale Modeling of Object for 3D Motion Analysis in Video	90
21	1569813543	Gesture Recognition Using Kinect for Sign Language	96
22	1569813785	Graph-Based Superpixel Labeling for Enhancement of Online Video Segmentation	101
23	1569816639	A Robust Video Stabilization Using Optimized Dynamic Time Warping	107
24	1569816725	Ontology Development Using Hozo and Semantic Analysis for Information Retrieval in Semantic Web	113
25	1569816785	Recognizing Fast Moving Objects At Normal Human Perception Rate	119
26	1569817019	An Efficient Algorithm for Human Tracking in Visual Surveillance System	125
27	1569818535	Multiclass Image Classification Using Multiscale Biorthogonal Wavelet Transform	131
28	1569819077	Review on Different Change Vector Analysis Algorithms Based Change Detection Techniques	136
29	1569819427	Automatic Cameraman for Dynamic Video Acquisition of Football Match	142
30	1569819545	Multistereo System Design	148
31	1569826085	Formulation of Hierarchical Framework for 3d-Gis Data Acquisition Techniques in Context of Level-of-Detail (Lod)	154







1 1			
32	1569830915	Object Tracking Using Joint Enhanced Color-Texture Histogram	160
33	1569775751	Joint Time Frequency Analysis Based Liveness Fingerprint Detection	166
34	1569780283	Quality Evaluation of Synthetic Video in Simultaneous Double Stimulus Environment	170
35	1569781311	Effective Use of Dense Optical Flow for Path Recognition	176
36	1569790063	Evolutionary Approach and Spline Interpolation for Contrast Enhancement	181
37	1569791547	Enhancing Accuracy of Multi Criteria Recommendation Systems Using Genetic Algorithm	No Show
38	1569790283	One Pass Quality Control and Low Complexity RDO in A Quadtree Based Scalable Image Coder	187
39	1569790317	Blind Image Quality Metric for Blurry and Noisy Image	193
40	1569790743	Optimization of SVM Classifier Using Firefly Algorithm	198
41	1569790807	Development of Photomicrographic Image Analysis Solution for Sporozoa Detection in Tasar Moth	203
42	1569791253	Modified Self - Adaptive Plateau Histogram Equalization with Mean Threshold for Brightness Preserving and Contrast Enhancement	208
43	1569791421	Phase-edge Based Approach for Pedestrian Segmentation Using NIR Camera and Tracking for Driver Assistance	214
44	1569791947	Hybrid Method for Wavelet Image Denoising	No Show
45	1569791529	Noise Removal Using Double-Density Dual-Tree Complex DWT	219
46	1569791949	General Bases Indexing Using Approximate Structure Techniques	225
47	1569792037	Binary Weights to Neighbouring Pixels Based Resolution Enhancement Mapping of Hyperspectral Image	231







236		
	48 1569792127 Kalman Predictor Based Edge Detector for Noisy Images	48
242	49 1569792531 Circuit Recognition Using Netlist	49
247	An Imaging Study to Assess Displacement Between501569793109Brachytherapy Applicator and Chestwall During SimultaneouThermobrachytherapy of Cancer	50
251	51 1569793385 Development of Improved SSIM Quality Index for Compress Medical Images	51
256	52 1569794961 Meta-analysis of Functional Neuroimaging Data	52
261	53 1569795013 Decision Based Salt-and-Pepper Noise Reduction Using Adaptive Weighted Bézier Approximation	53
267	54 1569798507 Discrimination Metric for Bi- Histogram Equalization of Cont Enhancement	54
271	55 1569799261 Enhanced Local Binary Pattern for Chest X-ray Classification	55
276	56 1569799721 Semantic Image Retrieval System Based on Object Relationships	56
282	57 1569800151 Image Retrieval System Using Block-Based Statistical Featur	57
288	581569800295Hybrid Method for Image Super-Resolution Using Steering Kernel Regression and Example-based Approaches	58
294	59 1569800449 Automatic Image Annotation Using Synthesis of Complementary Features	59
299	60 1569801453 Automatic Blur Detection in Mobile Captured Document Images	60
305	61 1569812287 Multi-touch Out-Focus: A Realization of SLR-like Narrow DO Mobile Camera	61
309	62 1569812605 A Steganography Framework for Easy Secret Sharing Throug Images	62
313	63 1569813173 Content Based Retrival of Malaria Positive Images From a Clinical Database	63
2 2 2 2 2 2 2 2 3 3 3	Medical Images521569794961Meta-analysis of Functional Neuroimaging Data531569795013Decision Based Salt-and-Pepper Noise Reduction Using Adaptive Weighted Bézier Approximation541569798507Discrimination Metric for Bi- Histogram Equalization of Cont Enhancement551569799261Enhanced Local Binary Pattern for Chest X-ray Classification561569799721Semantic Image Retrieval System Based on Object Relationships571569800151Image Retrieval System Using Block-Based Statistical Featur581569800295Hybrid Method for Image Super-Resolution Using Steering Kernel Regression and Example-based Approaches591569800449Automatic Image Annotation Using Synthesis of Complementary Features60156981453Automatic Blur Detection in Mobile Captured Document Images611569812287Multi-touch Out-Focus: A Realization of SLR-like Narrow DO Mobile Camera621569812732Content Based Retrival of Malaria Positive Images From a	52 53 54 55 56 57 58 59 60 61 62







64	1569813203	Image Registration in Shifted Focus	319
65	1569796465	SVD Based Low Contrast Satellite Image Enhancement in Stationary Wavelet Transform Domain	No Show
66	1569814045	CRAMM - Character Recognition Aided by Mathematical Morphology	323
67	1569798211	No-Reference Ultrafast Blur Evaluation in Ocular Biometrics	No Show
68	1569815523	Detection of Presence of Parasites in Human RBC in Case of Diagnosing Malaria Using Image Processing	329
69	1569815869	Systolic Array Based Architecture for DS Fast Motion Estimation Algorithm	335
70	1569815923	General Regression Neural Network Based Image Watermarking Scheme Using Fractional DCT-II Transform	340
71	1569815943	Semantic and Content-Based Medical Image Retrieval for Lung Cancer Diagnosis with the Inclusion of Expert Knowledge and Proven Pathology	346
72	1569816203	Design and ASIC Implementation of Image Segmentation Algorithm for Autonomous MAV Navigation	352
73	1569816387	Early Termination in Diamond Search Method Using Statistical Analysis	358
74	1569819003	Comparison of Various Models and Optimum Range of Its Parameters Used in SVM Classification of Digital Satellite Image	363
75	1569819013	Efficient Progressive JPEG Decoder Using JPEG Baseline Hardware	369
76	1569819021	Efficient Bit-Plane Implementation for VC1 Video Decoder for Multi-core Architecture	373
77	1569819067	Secure Key Based Image Realization Steganography	377
78	1569819109	An FPGA-Based Fixed-Point Architecture for Binary Logarithmic Computation	383
79	1569819363	Scalable High Performance Loop Filter Architecture for Video Codecs	389







80	1569819395	Implementation of Steganography Using CES Technique	395
81	1569819497	Low Power Architecture for Motion Compensation in a 4K Ultra-HD AVC and HEVC Video Codec System	400
82	1569819691	Mobile Plant Species Classification: A Low Computational Aproach	405
83	1569822949	A Novel Algorithm for Random-valued-impulse Noise Detection and Removal Using Chebyshev Polynomial Interpolation	410
84	1569843511	Design of Filters in Matlab Simulink for Reducing Current Harmonic Distortion	416
85	1569849233	A Novel and Fast Algorithm for Random Valued Impulse Image Noise Cancellation Using Cubic B-splines	421
86	1569865405	A Fast Novel Algorithm for Salt and Pepper Impulse Noise Removal Using B-Splines for Finger Print Forensic Images	427
87	1569868031	An Efficient Interest Point Detection Technique for Real-time Applications	432
88	1569786869	Recovery of Drawing Order in Handwritten Digit Images	437
89	1569788223	Gene Expression Programming Based Age Estimation Using Facial Features	442
90	1569789703	Robust Content Based Image Retrieval Based on Multi- Resolution Wavelet Features and Edge Histogram	447
91	1569791269	HCI Using Hand Gesture Recognition for Digital Sand Model	453
92	1569791505	Image Registration in Noisy Environment Using Particle Swarm Optimization	458
93	1569791549	Automatic Flag Recognition Using Texture Based Color Analysis and Gradient Features	464
94	1569791821	Contour Feature-Point Tagging as a Mechanism for Automated Splitting of Highly-Occluded and Dissimilar-Sized Cells in Blood Smear Images	470
95	1569792167	Video Shot Boundary Detection Based on JND Color Histogram	476







96	1569793245	Sequential Minimal Optimization for Support Vector Machine with Feature Selection in Breast Cancer Diagnosis	481
97	1569794625	Evaluation of Penalty Function Methods for Constrained Optimization Using Particle Swarm Optimization	487
98	1569794681	Local Directional Pattern (LDP) Based Fingerprint Matching Using SLFNN	493
99	1569814339	Boundary Evolution Algorithm for Occluded Region Reconstruction(BEAORR)	No Show
100	1569795129	Improved Active Contour Model for Satellite Images	499
101	1569814921	Real Time System for Robot Navigation	No Show
102	1569799923	Hand Gestures Recognition Based on Lightweight Evolving Fuzzy Clustering Method	505
103	1569800133	A Unified Framework for Geometry and Exemplar Based Image Inpainting	511
104	1569801617	Expanding Small UAV Capabilities with ANN: A Case Study for Urban Areas Observation	516
105	1569804869	Image Processing for Smart Farming: Detection of Disease and Fruit Grading	521
106	1569805659	Identification of Military Vehicles in Hyper Spectral Imagery Through Spatio-Spectral Filtering	527
107	1569806061	A Rotation and Location Invariant Face Identification and Localization with or Without Occlusion Using Modified RBFN	533
108	1569807527	A MFCC Based Hindi Speech Recognition Technique Using HTK Toolkit	539
109	1569812895	Resourcesat-2 Image Restoration for Differential Pulse Code Modulation Compression Artifacts	545
110	1569813167	A Novel Online Ensemble Approach for Concept Drift in Data Streams	550
111	1569813265	Text Extraction From Natural Images Based on Stroke Width Map	556







		•	
112	1569813421	Constant Dimensionality Reduction for Large Databases Using Localized PCA with an Application to Face Recognition	560
113	1569815701	A Dualistic Sub-Image Histogram Equalization Based Enhancement and Segmentation Techniques for Medical Images	566
114	1569815977	Copyright Protection of Color Images Using A Novel Wavelet Based Watermarking Algorithm	570
115	1569816343	Analysis of micro-Doppler Radar Signatures of Rotating Targets Using Gabor-Wigner Transform	No Show
116	1569816031	Identification of Kashmiri Script in a Bilingual Document Image	575
117	1569817021	Transfer Learning Using Adaptive SVM for Image Classification	580
118	1569819415	Medical Image Denoising From Similar Patches Derived by Rough Set	586
119	1569820399	Checking Automobile Fuel Adulteration Using Image Processing Techniques	592
120	1569774815	Thermal Human Face Recognition Based on Gappy- PCA	597
121	1569789555	Heterogeneous Fuzzy Based Clustering Protocol	601
122	1569816791	Robust and Accurate Iris Recognition Using Improved Classical Hough Transform for IRIS Detection Methodologies	No Show
123	1569789813	A Hybrid Approach for Image Security by Combining Encryption and Steganography	607
124	1569790151	ECR(Encryption with Cover Text and Reordering) Based Text Steganography	612
125	1569790175	Multispectral Palmprint Identification by Hybrid Haar Wavelet Employing Multiple Score Level Fusion Modus Operandi	617
126	1569791013	Face Recognition Using Gradient Based Local Feature Matching	623
127	1569817727	Automated Heart Diseases Detection Using PCG Signals	No Show







1 1			
128	1569791247	Unusual Event Detection Using Sparse Spatio-Temporal Features and Bag of Words Model	629
129	1569818315	A Novel Approach for Location Tracking in Mobile Agents System Using Forward and Backward Pointers	No Show
130	1569794941	Hand Shape Based Biometric Authentication System Using Radon Transform and Collaborative Representation Based Classification	635
131	1569795115	A Novel Visual Cryptography Scheme Based on Substitution Cipher	640
132	1569805207	Ocular Detection for Biometric Recognition	644
133	1569814077	A Fast DCT Based Method for Copy Move Forgery Detection	649
134	1569814459	Private Chaotic Biometric Template Protection Algorithm	655
135	1569815145	Analysis of Secured Video Steganography Using Computer Forensics Technique for Enhance Data Security	660
136	1569815527	Newly Framed Cryptosystem for Color Images	666
137	1569816079	An Overview of Face Recognition in an Unconstrained Environment	672
138	1569816401	A Software Reliability Growth Model with Two Types of Learning and a Negligence Factor	678
139	1569819125	Obstacle Detection System for Visually Impaired People	No Show
140	1569816903	Function Point Distribution Using Maximum Entropy Principle	684
141	1569819149	ChuckMe: A Fast Chucking Detection Algorithm Using Silhouette Analysis of Cricket Videos	No Show
142	1569818327	Elimination of Gaussian Noise Using Entropy Function for a RSSI Based Localization	690
143	1569848485	Performance Comparison of Wavelet Filters Against Signal Processing Attacks	695







144	1569854711	Performance Evaluation and Comparison of AODV and DSR Routing Protocols in MANETs Under Wormhole Attack	699
145	1569819471	Comparison of Methods of Deriving Priorities in AHP	No Show
146	1569819517	Online Detection and Tracking of Moving Objects Based on Iterative Background Subtraction	No Show

