

Vinod Chandran

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

143
papers

2,842
citations

28
h-index

48
g-index

174
ext. papers

3,573
ext. citations

3.7
avg. IF

5.44
L-index

#	Paper	IF	Citations
143	HOS-FingerCode: Bispectral invariants based contactless multi-finger recognition system using ridge orientation and feature fusion. <i>Expert Systems With Applications</i> , 2022 , 117054	7.8	
142	Enhanced forensic speaker verification performance using the ICA-EBM algorithm under noisy and reverberant environments. <i>Evolutionary Intelligence</i> , 2021 , 14, 1475-1494	1.7	1
141	Segmentation of White Blood Cell, Nucleus and Cytoplasm in Digital Haematology Microscope Images: A Review-Challenges, Current and Future Potential Techniques. <i>IEEE Reviews in Biomedical Engineering</i> , 2021 , 14, 290-306	6.4	8
140	Hierarchical fusion network for periocular and iris by neural network approximation and sparse autoencoder. <i>Machine Vision and Applications</i> , 2021 , 32, 1	2.8	2
139	3D Face Tracking Using Stereo Cameras: A Review. <i>IEEE Access</i> , 2020 , 8, 94373-94393	3.5	1
138	Evaluation and benchmarking of level set-based three forces via geometric active contours for segmentation of white blood cell nuclei shape. <i>Computers in Biology and Medicine</i> , 2020 , 116, 103568	7	7
137	Automatic Emotion Recognition Using Temporal Multimodal Deep Learning. <i>IEEE Access</i> , 2020 , 8, 225463-225474	3.3	14
136	Benchmarking HEp-2 specimen cells classification using linear discriminant analysis on higher order spectra features of cell shape. <i>Pattern Recognition Letters</i> , 2019 , 125, 534-541	4.7	9
135	Automatic driver stress level classification using multimodal deep learning. <i>Expert Systems With Applications</i> , 2019 , 138, 112793	7.8	50
134	Prediction of Relative Physical Activity Intensity Using Multimodal Sensing of Physiological Data. <i>Sensors</i> , 2019 , 19,	3.8	10
133	Detection and Tracking of Faces in 3D Using a Stereo Camera Arrangements. <i>International Journal of Machine Learning and Computing</i> , 2019 , 9, 35-43	1.8	0
132	A Critical Review of Proactive Detection of Driver Stress Levels Based on Multimodal Measurements. <i>ACM Computing Surveys</i> , 2019 , 51, 1-35	13.4	43
131	Facial Expression Analysis under Partial Occlusion. <i>ACM Computing Surveys</i> , 2018 , 51, 1-49	13.4	294
130	Physical Activity Recognition Using Posterior-Adapted Class-Based Fusion of Multiaccelerometer Data. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 678-685	7.2	44
129	Evolutionary computation algorithms for feature selection of EEG-based emotion recognition using mobile sensors. <i>Expert Systems With Applications</i> , 2018 , 93, 143-155	7.8	106
128	Classification of White Blood Cells Using L-Moments Invariant Features of Nuclei Shape 2018 ,		5
127	Classification of White Blood Cells using Bispectral Invariant Features of Nuclei Shape 2018 ,		10

126	Combining multi-channel color space with local binary co-occurrence feature descriptors for accurate smoke detection from surveillance videos. <i>Fire Safety Journal</i> , 2018 , 102, 1-10	3.3	19
125	Towards Generic Modelling of Viewer Interest Using Facial Expression and Heart Rate Features. <i>IEEE Access</i> , 2018 , 6, 62490-62502	3.5	4
124	Contactless Finger Recognition Using Invariants from Higher Order Spectra of Ridge Orientation Profiles 2018 ,		1
123	Long Short Term Memory Hyperparameter Optimization for a Neural Network Based Emotion Recognition Framework. <i>IEEE Access</i> , 2018 , 6, 49325-49338	3.5	50
122	. <i>IEEE Access</i> , 2017 , 5, 6978-6988	3.5	7
121	Ensemble Methods for Classification of Physical Activities from Wrist Accelerometry. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 1965-1973	1.2	47
120	Multispectral Periocular Classification With Multimodal Compact Multi-Linear Pooling. <i>IEEE Access</i> , 2017 , 5, 14572-14578	3.5	15
119	Enhanced Forensic Speaker Verification Using a Combination of DWT and MFCC Feature Warping in the Presence of Noise and Reverberation Conditions. <i>IEEE Access</i> , 2017 , 5, 15400-15413	3.5	38
118	Hybrid DWT and MFCC feature warping for noisy forensic speaker verification in room reverberation 2017 ,		2
117	2017 ,		3
116	Automatic classification of physical exercises from wearable sensors using small dataset from non-laboratory settings 2017 ,		2
115	Improving Retrieval Quality Using Pseudo Relevance Feedback in Content-Based Image Retrieval 2016 ,		1
114	Part based bit error analysis of iris codes. <i>Pattern Recognition</i> , 2016 , 60, 306-317	7.7	3
113	Towards robust automatic affective classification of images using facial expressions for practical applications. <i>Multimedia Tools and Applications</i> , 2016 , 75, 4669-4695	2.5	14
112	Application of wavelet techniques for cancer diagnosis using ultrasound images: A Review. <i>Computers in Biology and Medicine</i> , 2016 , 69, 97-111	7	51
111	Automatic segmentation of HEp-2 cell Fluorescence microscope images using level set method via geometric active contours 2016 ,		2
110	White Blood Cell Nuclei Segmentation Using Level Set Methods and Geometric Active Contours 2016 ,		16
109	Investigating the impact of drug induced pupil dilation on automated iris recognition 2016 ,		3

108	Automatic Identification of Sports Video Highlights using Viewer Interest Features 2016 ,		8
107	Application of higher-order spectra for automated grading of diabetic maculopathy. <i>Medical and Biological Engineering and Computing</i> , 2015 , 53, 1319-31	3.1	17
106	A biomechanical approach to iris normalization 2015 ,		12
105	Using Viewer's Facial Expression and Heart Rate for Sports Video Highlights Detection 2015 ,		9
104	An effective Content Based Image Retrieval system based on global representation and multi-level searching 2015 ,		2
103	Periocular recognition under expression variation using Higher Order Spectral features 2015 ,		4
102	Content-Based Image (object) Retrieval with Rotational Invariant Bag-of-Visual Words representation 2015 ,		2
101	Facial expression recognition experiments with data from television broadcasts and the World Wide Web. <i>Image and Vision Computing</i> , 2014 , 32, 107-119	3.7	23
100	Representation of facial expression categories in continuous arousal-valence space: Feature and correlation. <i>Image and Vision Computing</i> , 2014 , 32, 1067-1079	3.7	14
99	Effect of Pupil Dilation and Constriction on the Distribution of Bit Errors within the Iris 2014 ,		3
98	Automated diagnosis of Age-related Macular Degeneration using greyscale features from digital fundus images. <i>Computers in Biology and Medicine</i> , 2014 , 53, 55-64	7	36
97	Decision support system for age-related macular degeneration using discrete wavelet transform. <i>Medical and Biological Engineering and Computing</i> , 2014 , 52, 781-96	3.1	35
96	Random Gabor based templates for facial expression recognition in images with facial occlusion. <i>Neurocomputing</i> , 2014 , 145, 451-464	5.4	61
95	A pilot study on affective classification of facial images for emerging news topics 2014 ,		1
94	Separable and non-separable discrete wavelet transform based texture features and image classification of breast thermograms. <i>Infrared Physics and Technology</i> , 2013 , 61, 274-286	2.7	36
93	Breast cancer detection from thermal images using bispectral invariant features. <i>International Journal of Thermal Sciences</i> , 2013 , 69, 21-36	4.1	72
92	Decision fusion from parts and samples for robust iris recognition 2013 ,		2
91	Improved Subject Identification in Surveillance Video Using Super-Resolution 2013 , 315-358		

90	Evaluation of image resolution and super-resolution on face recognition performance. <i>Journal of Visual Communication and Image Representation</i> , 2012 , 23, 75-93	2.7	40
89	Sequential fusion of decisions from adaptive and random samples for controlled verification errors 2012 ,		1
88	Probabilistic Matching of Image Sets for Video-Based Face Recognition 2012 ,		3
87	Time-varying bispectral analysis of visually evoked multi-channel EEG. <i>Eurasip Journal on Advances in Signal Processing</i> , 2012 , 2012,	1.9	6
86	Discovering the Best Feature Extraction and Selection Algorithms for Spontaneous Facial Expression Recognition 2012 ,		10
85	Evaluation of Texture and Geometry for Dimensional Facial Expression Recognition 2011 ,		8
84	Analysis of detection performance in spectrum sensing optimisation for long sensing periods 2011 ,		1
83	Application of higher order spectra to identify epileptic EEG. <i>Journal of Medical Systems</i> , 2011 , 35, 1563-71	3.1	100
82	Asphalt Concrete Surfaces Macrotecture Determination From Still Images. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2011 , 12, 857-869	6.1	12
81	Toward a more robust facial expression recognition in occluded images using randomly sampled Gabor based templates 2011 ,		4
80	Geometry vs. Appearance for Discriminating between Posed and Spontaneous Emotions. <i>Lecture Notes in Computer Science</i> , 2011 , 431-440	0.9	11
79	Sequential Fusion Using Correlated Decisions for Controlled Verification Errors. <i>Lecture Notes in Computer Science</i> , 2011 , 49-56	0.9	2
78	Robust Image Hashing Using Higher Order Spectral Features 2010 ,		1
77	Biometric template security using Higher Order Spectra 2010 ,		3
76	Sequential decision fusion for controlled detection errors 2010 ,		4
75	Application of higher order statistics/spectra in biomedical signals--a review. <i>Medical Engineering and Physics</i> , 2010 , 32, 679-89	2.4	158
74	Multi-spectral fusion for surveillance systems. <i>Computers and Electrical Engineering</i> , 2010 , 36, 643-663	4.3	19
73	Automatic identification of epileptic electroencephalography signals using higher-order spectra. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2009 , 223, 485-95	1.7	48

72	Analysis of epileptic EEG signals using higher order spectra. <i>Journal of Medical Engineering and Technology</i> , 2009 , 33, 42-50	1.8	89
71	Cardiac health diagnosis using higher order spectra and support vector machine. <i>Open Medical Informatics Journal</i> , 2009 , 3, 1-8	1	29
70	Higher Order Spectra based Support Vector Machine for Arrhythmia Classification. <i>IFMBE Proceedings</i> , 2009 , 231-234	0.2	4
69	Cardiac state diagnosis using higher order spectra of heart rate variability. <i>Journal of Medical Engineering and Technology</i> , 2008 , 32, 145-55	1.8	101
68	Object tracking using multiple motion modalities 2008 ,		2
67	Automatic identification of epilepsy by HOS and power spectrum parameters using EEG signals: a comparative study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 362-1-7	0.9	19
66	Computer-based analysis of cardiac state using entropies, recurrence plots and Poincare geometry. <i>Journal of Medical Engineering and Technology</i> , 2008 , 32, 263-72	1.8	18
65	3D face verification using a free-parts approach. <i>Pattern Recognition Letters</i> , 2008 , 29, 1190-1196	4.7	10
64	Biometric Based Cryptographic Key Generation from Faces 2007 ,		57
63	Multiscale Representation for 3-D Face Recognition. <i>IEEE Transactions on Information Forensics and Security</i> , 2007 , 2, 529-536	8	12
62	An adaptive optical flow technique for person tracking systems. <i>Pattern Recognition Letters</i> , 2007 , 28, 1232-1239	4.7	59
61	Higher Order Spectral (HOS) analysis of epileptic EEG signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 6496-9		13
60	Robust 3D Face Recognition from Expression Categorisation. <i>Lecture Notes in Computer Science</i> , 2007 , 271-280	0.9	2
59	Super-Resolved Faces for Improved Face Recognition from Surveillance Video. <i>Lecture Notes in Computer Science</i> , 2007 , 1-10	0.9	25
58	Gaze tracking for region of interest coding in JPEG 2000. <i>Signal Processing: Image Communication</i> , 2006 , 21, 359-377	2.8	6
57	The Role of Motion Models in Super-Resolving Surveillance Video for Face Recognition 2006 ,		3
56	A Multi-Class Tracker Using a Scalable Condensation Filter 2006 ,		2
55	Combined 2D/3D Face Recognition Using Log-Gabor Templates 2006 ,		28

54	Feature Modelling of PCA Difference Vectors for 2D and 3D Face Recognition 2006 ,		2
53	3D Face Recognition using Log-Gabor Templates 2006 ,		40
52	. <i>IEEE Transactions on Multimedia</i> , 2005 , 7, 495-506	6.6	21
51	Identification of gastroenteric viruses by electron microscopy using higher order spectral features. <i>Journal of Clinical Virology</i> , 2005 , 34, 195-206	14.5	17
50	Near-surface Interface Detection for Coal Mining Applications using Bispectral Features and GPR. <i>Subsurface Sensing Technologies and Applications</i> , 2005 , 6, 125-149		16
49	An Application of Fractal Image-Set Coding in Facial Recognition. <i>Lecture Notes in Computer Science</i> , 2004 , 178-186	0.9	0
48	Speaker Identification Using Higher Order Spectral Phase Features and their Effectiveness vis ^{is} Mel-Cepstral Features. <i>Lecture Notes in Computer Science</i> , 2004 , 614-622	0.9	6
47	Importance prioritisation in JPEG 2000 for improved interpretability. <i>Signal Processing: Image Communication</i> , 2004 , 19, 1005-1028	2.8	1
46	Face authentication test on the BANCA database 2004 ,		46
45	Improved Facial-Feature Detection for AVSP via Unsupervised Clustering and Discriminant Analysis. <i>Eurasip Journal on Advances in Signal Processing</i> , 2003 , 2003, 1	1.9	6
44	Interpretability performance assessment of JPEG2000 and part 1 compliant region of interest coding. <i>IEEE Transactions on Consumer Electronics</i> , 2003 , 49, 808-817	4.8	10
43	Adaptive mouth segmentation using chromatic features. <i>Pattern Recognition Letters</i> , 2002 , 23, 1293-1302	4.7	17
42	Chromatic colour spaces for skin detection using GMMS 2002 ,		2
41	Detection of mines in acoustic images using higher order spectral features. <i>IEEE Journal of Oceanic Engineering</i> , 2002 , 27, 610-618	3.3	24
40	Learning object dynamics for smooth tracking of moving lip contours. <i>Electronics Letters</i> , 2000 , 36, 520	1.1	1
39	Robust speaker verification via fusion of speech and lip modalities 1999 ,		9
38	Detection of sea mines in sonar imagery using higher-order spectral features 1999 ,		4
37	Speech compaction using temporal decomposition. <i>Electronics Letters</i> , 1998 , 34, 2317	1.1	0

36	Higher-Order Spectra of Nonlinear Polynomial Models for Chua's Circuit. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1998 , 08, 2425-2431	2	2
35	Pattern recognition using invariants defined from higher order spectra: 2-D image inputs. <i>IEEE Transactions on Image Processing</i> , 1997 , 6, 703-12	8.7	71
34	The development of a new signal processing program at the Queensland University of Technology. <i>IEEE Transactions on Education</i> , 1996 , 39, 186-191	2.1	1
33	Higher-order spectral analysis of nonlinear ocean surface gravity waves. <i>Journal of Geophysical Research</i> , 1995 , 100, 4977		20
32	. <i>IEEE Transactions on Signal Processing</i> , 1994 , 42, 229-233	4.8	40
31	. <i>IEEE Transactions on Signal Processing</i> , 1994 , 42, 3430-3440	4.8	16
30	. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1993 , 40, 689-692		6
29	Pattern Recognition Using Invariants Defined From Higher Order Spectra- One Dimensional Inputs. <i>IEEE Transactions on Signal Processing</i> , 1993 , 41, 205	4.8	98
28	HIGHER-ORDER SPECTRAL ANALYSIS TO DETECT NONLINEAR INTERACTIONS IN MEASURED TIME SERIES AND AN APPLICATION TO CHUA'S CIRCUIT. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1993 , 03, 19-34	2	19
27	BISPECTRAL AND TRISPECTRAL CHARACTERIZATION OF TRANSITION TO CHAOS IN THE DUFFING OSCILLATOR. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1993 , 03, 551-557	2	16
26	1992 ,		12
25	1991 ,		6
24	. <i>IEEE Transactions on Signal Processing</i> , 1991 , 39, 2640-2651	4.8	18
23	. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1990 , 38, 2181-2186		14
22	Optical techniques for real-time binary multiplication. <i>Applied Optics</i> , 1986 , 25, 2272	1.7	14
21	Speech recognition in adverse environments using lip information		1
20	Digit recognition using trispectral features		1
19			7

18	Face recognition from super-resolved images	7
17	Gabor Filter Bank Representation for 3D Face Recognition	7
16	Application of ground penetrating radar technology for near-surface interface determination in coal mining	2
15	Techniques for improving stereo depth maps of faces	4
14	Visual attention based roi maps from gaze tracking data	3
13	Face recognition from 3D data using Iterative Closest Point algorithm and Gaussian mixture models	22
12	Improved speech recognition using adaptive audio-visual fusion via a stochastic secondary classifier	3
11	Robustness to expression variations in fractal-based face recognition	3
10	A suitability metric for mouth tracking through chromatic segmentation	3
9	Initialised eigenlip estimator for fast lip tracking using linear regression	5
8	The use of temporal speech and lip information for multi-modal speaker identification via multi-stream HMMs	11
7	Vector quantization based Gaussian modeling for speaker verification	7
6	Machine recognition of hand-drawn circuit diagrams	9
5	Face recognition using fractal codes	6
4	Importance coding of still imagery based on importance maps of visually interpretable regions	1
3	An approach to statistical lip modelling for speaker identification via chromatic feature extraction	22
2	The use of speech and lip modalities for robust speaker verification under adverse conditions	8
1		4

