

Vinod Chandran

List of Publications by Citations

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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	Facial Expression Analysis under Partial Occlusion. <i>ACM Computing Surveys</i> , 2018 , 51, 1-49	13.4	294
142	Application of higher order statistics/spectra in biomedical signals--a review. <i>Medical Engineering and Physics</i> , 2010 , 32, 679-89	2.4	158
141	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
140	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
139	Application of higher order spectra to identify epileptic EEG. <i>Journal of Medical Systems</i> , 2011 , 35, 1563-71	3.1	100
138	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
137	Analysis of epileptic EEG signals using higher order spectra. <i>Journal of Medical Engineering and Technology</i> , 2009 , 33, 42-50	1.8	89
136	Breast cancer detection from thermal images using bispectral invariant features. <i>International Journal of Thermal Sciences</i> , 2013 , 69, 21-36	4.1	72
135	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
134	Random Gabor based templates for facial expression recognition in images with facial occlusion. <i>Neurocomputing</i> , 2014 , 145, 451-464	5.4	61
133	An adaptive optical flow technique for person tracking systems. <i>Pattern Recognition Letters</i> , 2007 , 28, 1232-1239	4.7	59
132	Biometric Based Cryptographic Key Generation from Faces 2007 ,		57
131	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
130	Automatic driver stress level classification using multimodal deep learning. <i>Expert Systems With Applications</i> , 2019 , 138, 112793	7.8	50
129	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
128	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
127	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

126	Face authentication test on the BANCA database 2004 ,		46
125	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
124	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
123	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
122	. <i>IEEE Transactions on Signal Processing</i> , 1994 , 42, 229-233	4.8	40
121	3D Face Recognition using Log-Gabor Templates 2006 ,		40
120	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
119	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
118	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
117	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
116	Cardiac health diagnosis using higher order spectra and support vector machine. <i>Open Medical Informatics Journal</i> , 2009 , 3, 1-8	1	29
115	Combined 2D/3D Face Recognition Using Log-Gabor Templates 2006 ,		28
114	Super-Resolved Faces for Improved Face Recognition from Surveillance Video. <i>Lecture Notes in Computer Science</i> , 2007 , 1-10	0.9	25
113	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
112	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
111	Face recognition from 3D data using Iterative Closest Point algorithm and Gaussian mixture models		22
110	An approach to statistical lip modelling for speaker identification via chromatic feature extraction		22
109	. <i>IEEE Transactions on Multimedia</i> , 2005 , 7, 495-506	6.6	21

108	Higher-order spectral analysis of nonlinear ocean surface gravity waves. <i>Journal of Geophysical Research</i> , 1995 , 100, 4977		20
107	Multi-spectral fusion for surveillance systems. <i>Computers and Electrical Engineering</i> , 2010 , 36, 643-663	4.3	19
106	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, 3824-7	0.9	19
105	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
104	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
103	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
102	. <i>IEEE Transactions on Signal Processing</i> , 1991 , 39, 2640-2651	4.8	18
101	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
100	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
99	Adaptive mouth segmentation using chromatic features. <i>Pattern Recognition Letters</i> , 2002 , 23, 1293-1302	4.7	17
98	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
97	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
96	. <i>IEEE Transactions on Signal Processing</i> , 1994 , 42, 3430-3440	4.8	16
95	White Blood Cell Nuclei Segmentation Using Level Set Methods and Geometric Active Contours 2016 ,		16
94	Multispectral Periocular Classification With Multimodal Compact Multi-Linear Pooling. <i>IEEE Access</i> , 2017 , 5, 14572-14578	3.5	15
93	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
92	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
91	. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1990 , 38, 2181-2186		14

90	Optical techniques for real-time binary multiplication. <i>Applied Optics</i> , 1986 , 25, 2272	1.7	14
89	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
88	Automatic Emotion Recognition Using Temporal Multimodal Deep Learning. <i>IEEE Access</i> , 2020 , 8, 225463-225474		14
87	A biomechanical approach to iris normalization 2015 ,		12
86	Asphalt Concrete Surfaces Macrotexure Determination From Still Images. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2011 , 12, 857-869	6.1	12
85	Multiscale Representation for 3-D Face Recognition. <i>IEEE Transactions on Information Forensics and Security</i> , 2007 , 2, 529-536	8	12
84	1992 ,		12
83	The use of temporal speech and lip information for multi-modal speaker identification via multi-stream HMMs		11
82	Geometry vs. Appearance for Discriminating between Posed and Spontaneous Emotions. <i>Lecture Notes in Computer Science</i> , 2011 , 431-440	0.9	11
81	Prediction of Relative Physical Activity Intensity Using Multimodal Sensing of Physiological Data. <i>Sensors</i> , 2019 , 19,	3.8	10
80	Discovering the Best Feature Extraction and Selection Algorithms for Spontaneous Facial Expression Recognition 2012 ,		10
79	3D face verification using a free-parts approach. <i>Pattern Recognition Letters</i> , 2008 , 29, 1190-1196	4.7	10
78	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
77	Classification of White Blood Cells using Bispectral Invariant Features of Nuclei Shape 2018 ,		10
76	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
75	Using Viewer's Facial Expression and Heart Rate for Sports Video Highlights Detection 2015 ,		9
74	Machine recognition of hand-drawn circuit diagrams		9
73	Robust speaker verification via fusion of speech and lip modalities 1999 ,		9

72	Evaluation of Texture and Geometry for Dimensional Facial Expression Recognition 2011 ,		8
71	The use of speech and lip modalities for robust speaker verification under adverse conditions		8
70	Automatic Identification of Sports Video Highlights using Viewer Interest Features 2016 ,		8
69	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
68	. <i>IEEE Access</i> , 2017 , 5, 6978-6988	3.5	7
67			7
66	Face recognition from super-resolved images		7
65	Gabor Filter Bank Representation for 3D Face Recognition		7
64	Vector quantization based Gaussian modeling for speaker verification		7
63	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
62	Time-varying bispectral analysis of visually evoked multi-channel EEG. <i>Eurasip Journal on Advances in Signal Processing</i> , 2012 , 2012,	1.9	6
61	Gaze tracking for region of interest coding in JPEG 2000. <i>Signal Processing: Image Communication</i> , 2006 , 21, 359-377	2.8	6
60	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
59	Speaker Identification Using Higher Order Spectral Phase Features and their Effectiveness visMel-Cepstral Features. <i>Lecture Notes in Computer Science</i> , 2004 , 614-622	0.9	6
58	Face recognition using fractal codes		6
57	. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1993 , 40, 689-692		6
56	1991 ,		6
55	Initialised eigenlip estimator for fast lip tracking using linear regression		5

54	Classification of White Blood Cells Using L-Moments Invariant Features of Nuclei Shape 2018 ,		5
53	Periocular recognition under expression variation using Higher Order Spectral features 2015 ,		4
52	Sequential decision fusion for controlled detection errors 2010 ,		4
51	Toward a more robust facial expression recognition in occluded images using randomly sampled Gabor based templates 2011 ,		4
50	Techniques for improving stereo depth maps of faces		4
49	Detection of sea mines in sonar imagery using higher-order spectral features 1999 ,		4
48			4
47	Higher Order Spectra based Support Vector Machine for Arrhythmia Classification. <i>IFMBE Proceedings</i> , 2009 , 231-234	0.2	4
46	Towards Generic Modelling of Viewer Interest Using Facial Expression and Heart Rate Features. <i>IEEE Access</i> , 2018 , 6, 62490-62502	3.5	4
45	Part based bit error analysis of iris codes. <i>Pattern Recognition</i> , 2016 , 60, 306-317	7.7	3
44	Effect of Pupil Dilation and Constriction on the Distribution of Bit Errors within the Iris 2014 ,		3
43	2017 ,		3
42	Probabilistic Matching of Image Sets for Video-Based Face Recognition 2012 ,		3
41	Biometric template security using Higher Order Spectra 2010 ,		3
40	The Role of Motion Models in Super-Resolving Surveillance Video for Face Recognition 2006 ,		3
39	Visual attention based roi maps from gaze tracking data		3
38	Improved speech recognition using adaptive audio-visual fusion via a stochastic secondary classifier		3
37	Robustness to expression variations in fractal-based face recognition		3

36	A suitability metric for mouth tracking through chromatic segmentation		3
35	Investigating the impact of drug induced pupil dilation on automated iris recognition 2016 ,		3
34	Hybrid DWT and MFCC feature warping for noisy forensic speaker verification in room reverberation 2017 ,		2
33	Automatic classification of physical exercises from wearable sensors using small dataset from non-laboratory settings 2017 ,		2
32	An effective Content Based Image Retrieval system based on global representation and multi-level searching 2015 ,		2
31	Content-Based Image (object) Retrieval with Rotational Invariant Bag-of-Visual Words representation 2015 ,		2
30	Decision fusion from parts and samples for robust iris recognition 2013 ,		2
29	Object tracking using multiple motion modalities 2008 ,		2
28	A Multi-Class Tracker Using a Scalable Condensation Filter 2006 ,		2
27	Application of ground penetrating radar technology for near-surface interface determination in coal mining		2
26	Feature Modelling of PCA Difference Vectors for 2D and 3D Face Recognition 2006 ,		2
25	Chromatic colour spaces for skin detection using GMMS 2002 ,		2
24	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
23	Robust 3D Face Recognition from Expression Categorisation. <i>Lecture Notes in Computer Science</i> , 2007 , 271-280	0.9	2
22	Sequential Fusion Using Correlated Decisions for Controlled Verification Errors. <i>Lecture Notes in Computer Science</i> , 2011 , 49-56	0.9	2
21	Automatic segmentation of HEp-2 cell Fluorescence microscope images using level set method via geometric active contours 2016 ,		2
20	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
19	3D Face Tracking Using Stereo Cameras: A Review. <i>IEEE Access</i> , 2020 , 8, 94373-94393	3.5	1

18	Improving Retrieval Quality Using Pseudo Relevance Feedback in Content-Based Image Retrieval 2016,			1
17	A pilot study on affective classification of facial images for emerging news topics 2014,			1
16	Sequential fusion of decisions from adaptive and random samples for controlled verification errors 2012,			1
15	Analysis of detection performance in spectrum sensing optimisation for long sensing periods 2011,			1
14	Robust Image Hashing Using Higher Order Spectral Features 2010,			1
13	Speech recognition in adverse environments using lip information			1
12	Digit recognition using trispectral features			1
11	Importance prioritisation in JPEG 2000 for improved interpretability. <i>Signal Processing: Image Communication</i> , 2004 , 19, 1005-1028		2.8	1
10	Learning object dynamics for smooth tracking of moving lip contours. <i>Electronics Letters</i> , 2000 , 36, 520	1.1		1
9	Importance coding of still imagery based on importance maps of visually interpretable regions			1
8	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
7	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
6	Contactless Finger Recognition Using Invariants from Higher Order Spectra of Ridge Orientation Profiles 2018,			1
5	An Application of Fractal Image-Set Coding in Facial Recognition. <i>Lecture Notes in Computer Science</i> , 2004 , 178-186		0.9	0
4	Speech compaction using temporal decomposition. <i>Electronics Letters</i> , 1998 , 34, 2317		1.1	0
3	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
2	Improved Subject Identification in Surveillance Video Using Super-Resolution 2013 , 315-358			
1	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	

