Ravi Sankar

List of Publications by Year
in descending order

102 papers	2,476 citations	516710 16 h-index	254184 43 g-index
102 all docs	102 docs citations	102 times ranked	2738 citing authors

#	Article	IF	Citations
1	Diagnosis of Parkinson's disease using higher order statistical analysis of alpha and beta rhythms. Biomedical Signal Processing and Control, 2022, 77, 103743.	5.7	6
2	Novel Catheter Multiscope: A Feasibility Study. IEEE Transactions on Biomedical Engineering, 2021, 68, 606-615.	4.2	0
3	Classification of the stages of Parkinson's disease using novel higher-order statistical features of EEG signals. Neural Computing and Applications, 2021, 33, 7615-7627.	5.6	10
4	Novel Unsupervised Feature Extraction Protocol using Autoencoders for Connected Speech: Application in Parkinson's Disease Classification. , 2021, , .		4
5	Applications of Higher Order Statistics in Electroencephalography Signal Processing: A Comprehensive Survey. IEEE Reviews in Biomedical Engineering, 2020, 13, 169-183.	18.0	26
6	A Collusion-Resistant Identity-Based Proxy Reencryption Scheme with Ciphertext Evolution for Secure Cloud Sharing. Security and Communication Networks, 2020, 2020, 1-16.	1.5	6
7	Compression of Gait IMU signals Using Sensor Fusion and Compressive Sensing. , 2020, , .		0
8	A novel pitch cycle detection algorithm for tele monitoring applications. , 2020, , .		1
9	Information Dissemination From Social Network for Extreme Weather Scenario. IEEE Transactions on Computational Social Systems, 2020, 7, 319-328.	4.4	11
10	Early Stage Diagnosis of Parkinson's Disease Using HOS Features of EEG Signals. , 2020, , .		1
11	Cooperative Influence Learning. , 2020, , .		0
12	Fetal Phonocardiogram Decomposition Framework. , 2018, , .		0
13	Effectiveness of Speech Analysis in Classification of Neurodegenerative Diseases: A Study on Parkinson's Disease. , 2018, , .		0
14	Classification of Parkinson's disease Using Pitch Synchronous Speech Analysis. , 2018, 2018, 1420-1423.		4
15	Trends in fetal monitoring through phonocardiography: Challenges and future directions. Biomedical Signal Processing and Control, 2017, 33, 289-305.	5.7	71
16	Cluster analysis framework for novel acoustic catheter stethoscope. , 2017, , .		0
17	A novel acoustic catheter stethoscope based acquisition and signal processing framework to extract multiple bio signals. , 2017, 2017, 1336-1339.		3
18	Effective and efficient compound feature vectors applicable to discrimination of any conceivable bandpass modulated waveforms. , 2016, , .		2

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19	Gait and tremor assessment for patients with Parkinson's disease using wearable sensors. ICT Express, 2016, 2, 168-174.	4.8	80
20	Gait monitoring system for patients with Parkinson's disease using wearable sensors. , 2016, , .		11
21	Complex Network Approach for Power Grids Vulnerability and Large Area Blackout. Lecture Notes in Computer Science, 2016, , 206-213.	1.3	3
22	An Intrusion Detection System Based on Multi-Level Clustering for Hierarchical Wireless Sensor Networks. Sensors, 2015, 15, 28960-28978.	3.8	22
23	PCAC: Power- and Connectivity-Aware Clustering for Wireless Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	5
24	Throughput and delay of single-hop and two-hop aeronautical communication networks. Journal of Communications and Networks, 2015, 17, 58-66.	2.6	15
25	An effect of phase noise for an indoor wireless system. Information Systems, 2015, 48, 262-266.	3.6	0
26	A P300-Based BCI Classification Algorithm Using Least Square Support Vector Machine. International Journal of Software Engineering and Its Applications, 2015, 9, 247-254.	0.2	2
27	Mobility Pattern Classification for a Bed Activity Monitoring System. International Journal of Smart Home, 2015, 9, 183-192.	0.4	0
28	Universal Nonhierarchical Automatic Modulation Recognition Techniques For Distinguishing Bandpass Modulated Waveforms Based On Signal Statistics, Cumulant, Cyclostationary, Multifractal And Fourier-Wavelet Transforms Features. , 2014, , .		13
29	Signal processing techniques for atrial fibrillation source detection. , 2014, 2014, 2821-4.		1
30	A Survey of Intrusion Detection Systems in Wireless Sensor Networks. IEEE Communications Surveys and Tutorials, 2014, 16, 266-282.	39.4	610
31	Context-Aware Emergency Messaging System Framework Utilizing Social Relations as Services. International Journal of Multimedia and Ubiquitous Engineering, 2014, 9, 77-86.	0.4	3
32	Text dependent speaker recognition using shifted MFCC. , 2013, , .		2
33	Constrained Motion Particle Swarm Optimization and Support Vector Regression for Non-linear Time Series Regression and Prediction Applications. , 2013, , .		6
34	Polarization-based cooperative directional MAC protocol for ad hoc networks. Ad Hoc Networks, 2013, 11, 1522-1538.	5.5	7
35	Buffer-aware packet scheduling in downlink multiuser systems. , 2013, , .		3
36	Adaptive-Rate Transmission With Opportunistic Scheduling in Wireless Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 1409-1415.	6.3	3

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37	Improved transient weather reporting using people centric sensing. , 2013, , .		5
38	A state preserving approach to recognizing human behavior using wireless infrared and vibration sensors. , 2012, , .		1
39	Instantaneous rate based cooperative MAC protocol for wireless ad hoc networks. , 2012, , .		0
40	Intrusion prevention with two-level user authentication in heterogeneous wireless sensor networks. International Journal of Security and Networks, 2012, 7, 107.	0.2	15
41	Automatic Modulation Recognition techniques based on cyclostationary and multifractal features for distinguishing LFM, PWM and PPM waveforms used in radar systems as example of artificial intelligence implementation in test. , 2012, , .		9
42	Hybrid cooperative MAC protocol for wireless ad hoc networks. , 2012, , .		2
43	Throughput and delay analysis in Aeronautical Data Networks. , 2012, , .		4
44	Evaluation of Advanced Two Tier User Authentication scheme. , 2012, , .		1
45	Adaptive rate transmission with opportunistic scheduling in wireless networks. , 2012, , .		1
46	Performance evaluation of flexible TDD switching in 3GPP LTE system. , 2012, , .		8
47	Text dependent speaker recognition using shifted MFCC. , 2012, , .		3
48	Algorithms for hiding data in speech signals. , 2012, , .		0
49	Comparison of routing and network coding in undirected network group communications. , 2012, , .		1
50	A New Single Trial P300 Classification Method. International Journal of E-Health and Medical Communications, 2012, 3, 31-41.	1.6	3
51	Distributed Adaptive Scheduling for Finite Horizon in Wireless Ad hoc Networks. Journal of Communications, 2012, 7, .	1.6	2
52	Throughput analysis in Aeronautical Data Networks. , 2011, , .		2
53	Advances and Challenges in Signal Analysis for Single Trial P300-BCI. Lecture Notes in Computer Science, 2011, , 87-94.	1.3	2
54	Two-Relay-Based Cooperative MAC Protocol for Wireless Ad hoc Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 3361-3373.	6.3	50

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55	Coherence time-based cooperative MAC protocol 1 for wireless ad hoc networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	9
56	Feasibility study of pico cellular-relaying system in urban outdoor environment. , 2011, , .		1
57	A brief survey of access control in Wireless Sensor Networks. , 2011, , .		14
58	Advanced two tier User Authentication scheme for heterogeneous Wireless Sensor Networks. , 2011, , .		12
59	Delay-Throughput Trade-Off with Opportunistic Relaying in Wireless Networks. , 2011, , .		5
60	Atrial fibrillation source identification. , 2011, 2011, 4398-401.		2
61	An Efficient Mutual Authentication and Access Control Scheme for Wireless Sensor Networks in Healthcare. Journal of Networks, 2011, 6, .	0.4	52
62	Activity-oriented access control to ubiquitous hospital information and services. Information Sciences, 2010, 180, 2979-2990.	6.9	33
63	Performance Evaluation of Quick-Start in Low Latency Networks. , 2010, , .		0
64	ADMAC with Integrated Destination Discovery for Ad Hoc Networks. IEEE Communications Letters, 2010, 14, 704-706.	4.1	1
65	A cooperative game-theoretic approach to cellular network hand-off. , 2010, , .		0
66	Public key cryptography-based security scheme for wireless sensor networks in healthcare. , 2010, , .		9
67	Impact of mobility prediction on the performance of Cognitive Radio networks. , 2010, , .		22
68	An internet overlay architecture for global scale wireless sensor networks. , 2010, , .		2
69	Welcome to WTS 2010. , 2010, , .		0
70	Finite horizon scheduling in wireless ad hoc networks. , 2010, , .		1
71	Time Series Prediction Using Support Vector Machines: A Survey. IEEE Computational Intelligence Magazine, 2009, 4, 24-38.	3.2	776
72	Single trial independent component analysis for P300 BCI system. , 2009, 2009, 4035-8.		12

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73	An energy-efficient access control scheme for wireless sensor networks based on elliptic curve cryptography. Journal of Communications and Networks, 2009, 11, 599-606.	2.6	53
74	Towards a Cross Layer Framework for ad hoc wireless networks. , 2009, , .		0
75	P300 Based Single Trial Independent Component Analysis on EEG Signal. Lecture Notes in Computer Science, 2009, , 404-410.	1.3	11
76	Grand challenge award: Interactive visual analytics palantir: The future of analysis. , 2008, , .		6
77	Enhanced speaker recognition based on intra-modal fusion and accent modeling. , 2008, , .		3
78	A Scenario-based Directional Communication Performance in Wireless Ad hoc Networks. , 2008, , .		0
79	Selected applications of LPLE in speech processing. , 2007, , .		0
80	Pitch conversion based on pitch mark mapping. , 2007, , .		1
81	Enhanced speaker recognition based on score level fusion of AHS and HMM. , 2007, , .		1
82	Computer-Aided Mass Detection Based on Ipsilateral Multiview Mammograms. Academic Radiology, 2007, 14, 530-538.	2.5	46
83	Boundary delineation in transrectal ultrasound image for prostate cancer. Computers in Biology and Medicine, 2007, 37, 1591-1599.	7.0	29
84	Evaluation and analysis of a face and voice outdoor multi-biometric system. Pattern Recognition Letters, 2007, 28, 1572-1580.	4.2	20
85	Theoretical derivation of minimum mean square error of RBF based equalizer. Signal Processing, 2007, 87, 1613-1625.	3.7	19
86	A KNOWLEDGE-BASED LUNG NODULE DETECTION SYSTEM FOR HELICAL CT IMAGES. International Journal of Computational Intelligence and Applications, 2006, 06, 371-387.	0.8	2
87	Standardization for image characteristics in telemammography using genetic and nonlinear algorithms. Computers in Biology and Medicine, 2005, 35, 183-196.	7.0	7
88	Lossless compression for x-ray mammogram images. , 2003, 5014, 337.		0
89	ATMTN: a telemammography network architecture. IEEE Transactions on Biomedical Engineering, 2002, 49, 1438-1443.	4.2	12
90	Integrated network architecture and signal processing for telemammography. , 2002, , .		1

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91	Wavelet based lossless image compression using partial SPIHT and bit plane based arithmetic coding. , 2002, , .		6
92	Advances in micro-calcification clusters detection in mammography. Computers in Biology and Medicine, 2002, 32, 515-528.	7.0	15
93	VBR video traffic management using a predictor-based architecture. Computer Communications, 2000, 23, 62-70.	5.1	8
94	Fuzzy handoff algorithms for wireless communication. Fuzzy Sets and Systems, 2000, 110, 379-388.	2.7	19
95	Microcellular handoff using fuzzy techniques. Wireless Networks, 1998, 4, 401-409.	3.0	13
96	Adaptive VBR video traffic management for higher utilization of ATM networks. Computer Communication Review, 1998, 28, 27-40.	1.8	16
97	Signal processing methods for pulse oximetry. Computers in Biology and Medicine, 1996, 26, 143-159.	7.0	160
98	QoS mapping scheme and a model for MAN-ATM internetworking. Computer Communications, 1996, 19, 276-286.	5.1	0
99	Performance trending for management of packet-switched networks. International Journal of Network Management, 1994, 4, 69-78.	2.2	1
100	Automatic computer analysis of transients in EEG. Computers in Biology and Medicine, 1992, 22, 407-422.	7.0	33
101	Digital signal processing for precision wide-swath bathymetry. IEEE Journal of Oceanic Engineering, 1984, 9, 73-84.	3.8	3
102	Applying neural network to robust keyword spotting in speech recognition application. , 0, , .		0