

# Ravi Sankar

## List of Publications by Year in descending order

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102  
papers

2,476  
citations

516681

16  
h-index

254170

43  
g-index

102  
all docs

102  
docs citations

102  
times ranked

2738  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time Series Prediction Using Support Vector Machines: A Survey. IEEE Computational Intelligence Magazine, 2009, 4, 24-38.	3.2	776
2	A Survey of Intrusion Detection Systems in Wireless Sensor Networks. IEEE Communications Surveys and Tutorials, 2014, 16, 266-282.	39.4	610
3	Signal processing methods for pulse oximetry. Computers in Biology and Medicine, 1996, 26, 143-159.	7.0	160
4	Gait and tremor assessment for patients with Parkinson's disease using wearable sensors. ICT Express, 2016, 2, 168-174.	4.8	80
5	Trends in fetal monitoring through phonocardiography: Challenges and future directions. Biomedical Signal Processing and Control, 2017, 33, 289-305.	5.7	71
6	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
7	An Efficient Mutual Authentication and Access Control Scheme for Wireless Sensor Networks in Healthcare. Journal of Networks, 2011, 6, .	0.4	52
8	Two-Relay-Based Cooperative MAC Protocol for Wireless Ad hoc Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 3361-3373.	6.3	50
9	Computer-Aided Mass Detection Based on Ipsilateral Multiview Mammograms. Academic Radiology, 2007, 14, 530-538.	2.5	46
10	Automatic computer analysis of transients in EEG. Computers in Biology and Medicine, 1992, 22, 407-422.	7.0	33
11	Activity-oriented access control to ubiquitous hospital information and services. Information Sciences, 2010, 180, 2979-2990.	6.9	33
12	Boundary delineation in transrectal ultrasound image for prostate cancer. Computers in Biology and Medicine, 2007, 37, 1591-1599.	7.0	29
13	Applications of Higher Order Statistics in Electroencephalography Signal Processing: A Comprehensive Survey. IEEE Reviews in Biomedical Engineering, 2020, 13, 169-183.	18.0	26
14	Impact of mobility prediction on the performance of Cognitive Radio networks. , 2010, , .		22
15	An Intrusion Detection System Based on Multi-Level Clustering for Hierarchical Wireless Sensor Networks. Sensors, 2015, 15, 28960-28978.	3.8	22
16	Evaluation and analysis of a face and voice outdoor multi-biometric system. Pattern Recognition Letters, 2007, 28, 1572-1580.	4.2	20
17	Fuzzy handoff algorithms for wireless communication. Fuzzy Sets and Systems, 2000, 110, 379-388.	2.7	19
18	Theoretical derivation of minimum mean square error of RBF based equalizer. Signal Processing, 2007, 87, 1613-1625.	3.7	19

#	ARTICLE	IF	CITATIONS
19	Adaptive VBR video traffic management for higher utilization of ATM networks. Computer Communication Review, 1998, 28, 27-40.	1.8	16
20	Advances in micro-calcification clusters detection in mammography. Computers in Biology and Medicine, 2002, 32, 515-528.	7.0	15
21	Intrusion prevention with two-level user authentication in heterogeneous wireless sensor networks. International Journal of Security and Networks, 2012, 7, 107.	0.2	15
22	Throughput and delay of single-hop and two-hop aeronautical communication networks. Journal of Communications and Networks, 2015, 17, 58-66.	2.6	15
23	A brief survey of access control in Wireless Sensor Networks. , 2011, , .		14
24	Microcellular handoff using fuzzy techniques. Wireless Networks, 1998, 4, 401-409.	3.0	13
25	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
26	ATMTN: a telemammography network architecture. IEEE Transactions on Biomedical Engineering, 2002, 49, 1438-1443.	4.2	12
27	Single trial independent component analysis for P300 BCI system. , 2009, 2009, 4035-8.		12
28	Advanced two tier User Authentication scheme for heterogeneous Wireless Sensor Networks. , 2011, , .		12
29	Gait monitoring system for patients with Parkinson's disease using wearable sensors. , 2016, , .		11
30	Information Dissemination From Social Network for Extreme Weather Scenario. IEEE Transactions on Computational Social Systems, 2020, 7, 319-328.	4.4	11
31	P300 Based Single Trial Independent Component Analysis on EEG Signal. Lecture Notes in Computer Science, 2009, , 404-410.	1.3	11
32	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
33	Public key cryptography-based security scheme for wireless sensor networks in healthcare. , 2010, , .		9
34	Coherence time-based cooperative MAC protocol 1 for wireless ad hoc networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, , .	2.4	9
35	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
36	VBR video traffic management using a predictor-based architecture. Computer Communications, 2000, 23, 62-70.	5.1	8

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37	Performance evaluation of flexible TDD switching in 3GPP LTE system. , 2012, , .		8
38	Standardization for image characteristics in telemammography using genetic and nonlinear algorithms. Computers in Biology and Medicine, 2005, 35, 183-196.	7.0	7
39	Polarization-based cooperative directional MAC protocol for ad hoc networks. Ad Hoc Networks, 2013, 11, 1522-1538.	5.5	7
40	Wavelet based lossless image compression using partial SPIHT and bit plane based arithmetic coding. , 2002, , .		6
41	Grand challenge award: Interactive visual analytics palantir: The future of analysis. , 2008, , .		6
42	Constrained Motion Particle Swarm Optimization and Support Vector Regression for Non-linear Time Series Regression and Prediction Applications. , 2013, , .		6
43	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
44	Diagnosis of Parkinsonâ€™s disease using higher order statistical analysis of alpha and beta rhythms. Biomedical Signal Processing and Control, 2022, 77, 103743.	5.7	6
45	Delay-Throughput Trade-Off with Opportunistic Relaying in Wireless Networks. , 2011, , .		5
46	Improved transient weather reporting using people centric sensing. , 2013, , .		5
47	PCAC: Power- and Connectivity-Aware Clustering for Wireless Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	5
48	Throughput and delay analysis in Aeronautical Data Networks. , 2012, , .		4
49	Classification of Parkinsonâ€™s disease Using Pitch Synchronous Speech Analysis. , 2018, 2018, 1420-1423.		4
50	Novel Unsupervised Feature Extraction Protocol using Autoencoders for Connected Speech: Application in Parkinson's Disease Classification. , 2021, , .		4
51	Digital signal processing for precision wide-swath bathymetry. IEEE Journal of Oceanic Engineering, 1984, 9, 73-84.	3.8	3
52	Enhanced speaker recognition based on intra-modal fusion and accent modeling. , 2008, , .		3
53	Text dependent speaker recognition using shifted MFCC. , 2012, , .		3
54	Buffer-aware packet scheduling in downlink multiuser systems. , 2013, , .		3

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55	Adaptive-Rate Transmission With Opportunistic Scheduling in Wireless Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 1409-1415.	6.3	3
56	A novel acoustic catheter stethoscope based acquisition and signal processing framework to extract multiple bio signals. , 2017, 2017, 1336-1339.		3
57	A New Single Trial P300 Classification Method. International Journal of E-Health and Medical Communications, 2012, 3, 31-41.	1.6	3
58	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
59	Complex Network Approach for Power Grids Vulnerability and Large Area Blackout. Lecture Notes in Computer Science, 2016, , 206-213.	1.3	3
60	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
61	An internet overlay architecture for global scale wireless sensor networks. , 2010, , .		2
62	Throughput analysis in Aeronautical Data Networks. , 2011, , .		2
63	Advances and Challenges in Signal Analysis for Single Trial P300-BCI. Lecture Notes in Computer Science, 2011, , 87-94.	1.3	2
64	Atrial fibrillation source identification. , 2011, 2011, 4398-401.		2
65	Hybrid cooperative MAC protocol for wireless ad hoc networks. , 2012, , .		2
66	Text dependent speaker recognition using shifted MFCC. , 2013, , .		2
67	Effective and efficient compound feature vectors applicable to discrimination of any conceivable bandpass modulated waveforms. , 2016, , .		2
68	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
69	Distributed Adaptive Scheduling for Finite Horizon in Wireless Ad hoc Networks. Journal of Communications, 2012, 7, .	1.6	2
70	Performance trending for management of packet-switched networks. International Journal of Network Management, 1994, 4, 69-78.	2.2	1
71	Integrated network architecture and signal processing for telemammography. , 2002, , .		1
72	Pitch conversion based on pitch mark mapping. , 2007, , .		1

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73	Enhanced speaker recognition based on score level fusion of AHS and HMM. , 2007, , .		1
74	ADMAC with Integrated Destination Discovery for Ad Hoc Networks. IEEE Communications Letters, 2010, 14, 704-706.	4.1	1
75	Finite horizon scheduling in wireless ad hoc networks. , 2010, , .		1
76	Feasibility study of pico cellular-relaying system in urban outdoor environment. , 2011, , .		1
77	A state preserving approach to recognizing human behavior using wireless infrared and vibration sensors. , 2012, , .		1
78	Evaluation of Advanced Two Tier User Authentication scheme. , 2012, , .		1
79	Adaptive rate transmission with opportunistic scheduling in wireless networks. , 2012, , .		1
80	Comparison of routing and network coding in undirected network group communications. , 2012, , .		1
81	Signal processing techniques for atrial fibrillation source detection. , 2014, 2014, 2821-4.		1
82	A novel pitch cycle detection algorithm for tele monitoring applications. , 2020, , .		1
83	Early Stage Diagnosis of Parkinsonâ€™s Disease Using HOS Features of EEG Signals. , 2020, , .		1
84	Applying neural network to robust keyword spotting in speech recognition application. , 0, , .		0
85	QoS mapping scheme and a model for MAN-ATM internetworking. Computer Communications, 1996, 19, 276-286.	5.1	0
86	Lossless compression for x-ray mammogram images. , 2003, 5014, 337.		0
87	Selected applications of LPLE in speech processing. , 2007, , .		0
88	A Scenario-based Directional Communication Performance in Wireless Ad hoc Networks. , 2008, , .		0
89	Towards a Cross Layer Framework for ad hoc wireless networks. , 2009, , .		0
90	Performance Evaluation of Quick-Start in Low Latency Networks. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
91	A cooperative game-theoretic approach to cellular network hand-off. , 2010, , .		0
92	Welcome to WTS 2010. , 2010, , .		0
93	Instantaneous rate based cooperative MAC protocol for wireless ad hoc networks. , 2012, , .		0
94	Algorithms for hiding data in speech signals. , 2012, , .		0
95	An effect of phase noise for an indoor wireless system. Information Systems, 2015, 48, 262-266.	3.6	0
96	Cluster analysis framework for novel acoustic catheter stethoscope. , 2017, , .		0
97	Fetal Phonocardiogram Decomposition Framework. , 2018, , .		0
98	Effectiveness of Speech Analysis in Classification of Neurodegenerative Diseases: A Study on Parkinson's Disease. , 2018, , .		0
99	Compression of Gait IMU signals Using Sensor Fusion and Compressive Sensing. , 2020, , .		0
100	Novel Catheter Multiscope: A Feasibility Study. IEEE Transactions on Biomedical Engineering, 2021, 68, 606-615.	4.2	0
101	Mobility Pattern Classification for a Bed Activity Monitoring System. International Journal of Smart Home, 2015, 9, 183-192.	0.4	0
102	Cooperative Influence Learning. , 2020, , .		0