

# Renu Vig

## List of Publications by Year in descending order

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Version: 2024-02-01

94  
papers

762  
citations

567281

15  
h-index

677142

22  
g-index

94  
all docs

94  
docs citations

94  
times ranked

658  
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed denial of service attacks in cloud: State-of-the-art of scientific and commercial solutions. Computer Science Review, 2021, 39, 100332.	15.3	34
2	Energy efficient fixed-cluster architecture for wireless sensor networks. Journal of Intelligent and Fuzzy Systems, 2021, 40, 8727-8740.	1.4	2
3	Delay-Sensitive, Reliable, Energy-Efficient, Adaptive and Mobility-Aware (DREAM) Routing Protocol for WSNs. Wireless Personal Communications, 2021, 120, 1675-1703.	2.7	4
4	Hyperband Tuned Deep Neural Network With Well Posed Stacked Sparse AutoEncoder for Detection of DDoS Attacks in Cloud. IEEE Access, 2020, 8, 181916-181929.	4.2	60
5	From pyramids to state-of-the-art: a study and comprehensive comparison of visible-infrared image fusion techniques. IET Image Processing, 2020, 14, 1671-1689.	2.5	19
6	Taguchi-TOPSIS based HOG parameter selection for complex background sign language recognition. Journal of Visual Communication and Image Representation, 2020, 71, 102834.	2.8	19
7	Effective mitigation against IoTs using super materials for distributed denial of service attacks in cloud computing. Materials Today: Proceedings, 2020, 28, 1359-1362.	1.8	2
8	Medical fusion framework using discrete fractional wavelets and non-subsampled directional filter banks. IET Image Processing, 2020, 14, 658-667.	2.5	3
9	Delay Aware and Lifetime Enhanced Sectoring (DALES) Routing Protocol for Heterogeneous Wireless Sensor Network. International Journal of Sensors, Wireless Communications and Control, 2020, 10, 164-178.	0.7	1
10	Temperature-Robust Active Vibration Controller Using MWCNT/Epoxy Strain Sensor and PZT-5H Actuator. Journal of Electronic Materials, 2019, 48, 3991-3999.	2.2	2
11	Impact of Variable Packet Length on the Performance of Heterogeneous Multimedia Wireless Sensor Networks. Wireless Personal Communications, 2019, 107, 1849-1863.	2.7	5
12	Experimental Analysis of DDoS Attacks on OpenStack Cloud Platform. Lecture Notes in Networks and Systems, 2019, , 3-13.	0.7	6
13	Multiwalled Carbon Nanotube Film Composite for Active Vibration Control of Cantilevered Beam. IEEE Sensors Journal, 2019, 19, 2466-2473.	4.7	3
14	Computational Technique for Onset of P-Wave for Seismic Alert System. Lecture Notes in Networks and Systems, 2019, , 849-859.	0.7	0
15	Medical Fusion of CLAHE Images Using SWT and PCA for Brain Disease Analysis. Lecture Notes in Networks and Systems, 2019, , 427-437.	0.7	0
16	Effect of Secondary Path Lengths on the Performance of FxLMS and Virtual Sensing Technique Based ANC System. Lecture Notes in Electrical Engineering, 2019, , 229-244.	0.4	0
17	Cluster-Head Restricted Energy Efficient Protocol (CREEP) for Routing in Heterogeneous Wireless Sensor Networks. Wireless Personal Communications, 2018, 100, 1477-1497.	2.7	61
18	Analysis of Zernike Moment-Based Features for Sign Language Recognition. Advances in Intelligent Systems and Computing, 2018, , 1335-1343.	0.6	2

#	ARTICLE	IF	CITATIONS
19	Methods to Investigate Concept Drift in Big Data Streams. , 2018, , 51-74.		5
20	Identification and classification of upper limb motions using PCA. Biomedizinische Technik, 2018, 63, 191-196.	0.8	9
21	Active vibration control of a beam instrumented with MWCNT/epoxy nanocomposite sensor and PZT-5H actuator, robust to variations in temperature. Microsystem Technologies, 2018, 24, 1683-1694.	2.0	6
22	Development of Earthquake Event Detection Technique Based on STA/LTA Algorithm for Seismic Alert System. Journal of the Geological Society of India, 2018, 92, 679-686.	1.1	24
23	Effect of processing conditions on the electrical resistance of MWCNT/epoxy nanocomposite based strain sensors. Journal of Materials Science: Materials in Electronics, 2018, 29, 19264-19277.	2.2	6
24	Concealed Weapon Detection using Wavelet, Dual Tree Complex Wavelet Transform and Curvelet Transform. Journal of Computer Science, 2018, 14, 1341-1350.	0.6	0
25	Comparison Between the Performance of Trigate Junctionless Transistor and Double-Gate Junctionless Transistor with Same Device Length. Advances in Intelligent Systems and Computing, 2018, , 991-997.	0.6	1
26	RSA Cryptosystem Based on Early Word Based Montgomery Modular Multiplication. Lecture Notes in Computer Science, 2018, , 33-47.	1.3	2
27	DCA-based unimodal feature-level fusion of orthogonal moments for Indian sign language dataset. IET Computer Vision, 2018, 12, 570-577.	2.0	16
28	Comparison of Surface Electromyogram Signal for Prosthetic Applications. Current Signal Transduction Therapy, 2018, 13, 168-172.	0.5	2
29	Identification of ISL Alphabets Using Discrete Orthogonal Moments. Wireless Personal Communications, 2017, 95, 4823-4845.	2.7	8
30	Indian sign language recognition using Krawtchouk moment-based local features. Imaging Science Journal, 2017, 65, 171-179.	0.5	17
31	Performance analysis of FBMC-CR through optimization: tradeoff between various performance parameters in the cognitive radio environment. Telecommunication Systems, 2017, 65, 567-589.	2.5	5
32	Analysis and recognition of operations using SEMG from upper arm muscles. Expert Systems, 2017, 34, e12221.	4.5	6
33	Feature selection using soft computing algorithms in biometrics. , 2017, , .		1
34	Energy analysis of two-tiered clustered architectures for smart world applications. , 2017, , .		0
35	CFS- InfoGain based Combined Shape-based Feature Vector for Signer Independent ISL Database. , 2017, , .		5
36	Design and Implementation of Efficient Analysis and Synthesis QMF Bank for Multicarrier Cognitive Radio Communication.. Telkomnika (Telecommunication Computing Electronics and Control), 2017, 15, 636.	0.8	0

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37	Performance Evaluation of Prototype FBMC Cognitive Radio under Constraints of L Number of Sensing Samples at Variable SNR for AWGN and Rayleigh Fading Environment. International Journal of Advanced Science and Technology, 2017, 107, 1-20.	0.3	0
38	Simulation and Analysis of Strain Sensitivity of CNT-Based Strain Sensors. International Journal of Nanoscience, 2016, 15, 1660005.	0.7	0
39	Multimodal medical image fusion using Butterworth high pass filter and Cross bilateral filter. MATEC Web of Conferences, 2016, 57, 01021.	0.2	3
40	Variation of piezoelectric coefficient and permittivity of piezoactuator with electric field in AVC experiments. Ferroelectrics, 2016, 502, 170-186.	0.6	4
41	Comparative Performance Evaluation of Modified Prototype Filter Bank Multicarrier Cognitive Radio Under Constraints of $L$ , $K$ , $N$ and $D$ . Computer Journal, 2016, 59, 1479-1491.	2.4	1
42	FPGA implementation of RSA based on carry save Montgomery modular multiplication. , 2016, , .		6
43	Geometrical distortion correction using enhanced feature extraction. , 2016, , .		0
44	Multimodal biometric system based on decision level fusion. , 2016, , .		7
45	Temperature compensation in a smart structure by application of DC bias on piezoelectric patches. Journal of Intelligent Material Systems and Structures, 2016, 27, 2524-2535.	2.5	9
46	Finite element modeling of smart piezo structure: considering dependence of piezoelectric coefficients on electric field. Mechanics Based Design of Structures and Machines, 2016, 44, 372-383.	4.7	23
47	Lung Cancer Detection Using Fusion of Medical Knowledge and Content Based Image Retrieval for LIDC Dataset. Journal of Medical Imaging and Health Informatics, 2016, 6, 297-311.	0.3	2
48	Comparative Analysis of Energy Detection Spectrum Sensing of Cognitive Radio Under Wireless Environment Using SEAMCAT. International Journal of Advanced Computer Science and Applications, 2016, 7, .	0.7	2
49	OPTIMIZATION OF BER IN COGNITIVE RADIO NETWORKS USING FHSS AND ENERGY-EFFICIENT OBRMB SPECTRUM SENSING. Far East Journal of Electronics and Communications, 2016, 16, 297-324.	0.2	1
50	Energy-efficient mobile cluster-head data collection model for wireless sensor networks. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 3448-3458.	1.4	3
51	Secondary User Sensing Time Optimization in Sensing-Transmission Scheduling for Dynamic Spectrum Access in Cognitive Radio. Journal of Computer Science, 2015, 11, 880-891.	0.6	5
52	A multi-class hand gesture recognition in complex background using Sequential minimal Optimization. , 2015, , .		3
53	Analysis of shape recognition capability of Krawtchouk moments. , 2015, , .		5
54	Effect of Electric Field and Temperature on Dielectric Constant and Piezoelectric Coefficient of Piezoelectric Materials: A Review. Integrated Ferroelectrics, 2015, 167, 154-175.	0.7	17

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55	Data collection model for energy-efficient wireless sensor networks. Annales Des Telecommunications/Annals of Telecommunications, 2015, 70, 501-511.	2.5	5
56	Computer Aided BER Performance Analysis of FBMC Cognitive Radio for Physical Layer Under the Effect of Binary Symmetric Radio Fading Channel. Wireless Personal Communications, 2015, 82, 1263-1278.	2.7	9
57	A review on energy based spectrum sensing in Cognitive Radio Networks. , 2015, , .		9
58	Early-word-based montgomery modular multiplication algorithm. , 2015, , .		1
59	Histograms of orientation gradient investigation for static hand gestures. , 2015, , .		5
60	Active vibration control: considering effect of electric field on coefficients of PZT patches. Smart Structures and Systems, 2015, 16, 1091-1105.	1.9	10
61	Energy efficient approach through clustering and data filtering in WSN. , 2014, , .		1
62	Optimization of SU's probability of false alarm for dynamic spectrum access in cognitive radio. , 2014, , .		10
63	Variation of piezoelectric coefficient and dielectric constant with electric field and temperature: A review. , 2014, , .		1
64	Study of Filter Bank Multicarrier Cognitive Radio under wireless fading channel. , 2014, , .		6
65	Investigating role of interestingness measures in rule mining by embedding in novel soft computing method. , 2014, , .		0
66	Computational Complexity Analysis of FBMC-OQAM under different Strategic Conditions. , 2014, , .		8
67	Dynamic PSO-Based Associative Classifier for Medical Datasets. IETE Technical Review (Institution of) Tj ETQq1 1 0.784314 rgBT /Ove 3.2 22		22
68	Active vibration control of a cantilevered plate instrumented with piezoelectric patches: Robust to variations in electric field. , 2014, , .		2
69	Optimization of secondary user access in cognitive radio networks. , 2014, , .		8
70	Novel associative classifier based on dynamic adaptive PSO: Application to determining candidates for thoracic surgery. Expert Systems With Applications, 2014, 41, 8234-8244.	7.6	21
71	Server noise: Health hazard and its reduction using active noise control. , 2014, , .		10
72	An Ant Voronoi Based Clustering Approach for Wireless Sensor Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 32-46.	0.3	6

#	ARTICLE	IF	CITATIONS
73	A New Approach for Data Filtering in Wireless Sensor Networks. Lecture Notes in Electrical Engineering, 2014, , 177-187.	0.4	6
74	Content Based Image Retrieval Approach in Creating an Effective Feature Index for Lung Nodule Detection with the Inclusion of Expert Knowledge and Proven Pathology. Current Medical Imaging, 2014, 10, 178-204.	0.8	2
75	Active Noise Control Using Intrinsic Mode Function Technique. , 2013, , .		1
76	Online Library Content Generation Using Focused Crawling Based Upon Meta Tags and Tf-Idf. , 2013, , .		1
77	Semantic and content-based medical image retrieval for lung cancer diagnosis with the inclusion of expert knowledge and proven pathology. , 2013, , .		10
78	Patient-Wise Versus Nodule-Wise Classification of Annotated Pulmonary Nodules using Pathologically Confirmed Cases. Journal of Computers, 2013, 8, .	0.4	7
79	Focused Crawling Based Upon TF-IDF Semantics and Hub Score Learning. Journal of Emerging Technologies in Web Intelligence, 2013, 5, .	0.6	3
80	e-Library Content Generation Using WorldNet Tf-Idf Semantics. Advances in Intelligent Systems and Computing, 2013, , 221-227.	0.6	1
81	Correlation between Biopsy Confirmed Cases and Radiologist's Annotations in the Detection of Lung Nodules by Expanding the Diagnostic Database Using Content Based Image Retrieval. Lecture Notes in Computer Science, 2013, , 531-538.	1.3	1
82	Learable Focused Meta Crawling Through Web. Procedia Technology, 2012, 6, 606-611.	1.1	13
83	An Ultra Miniature MEMS Capacitor for Arterial Pressure Measurement. Journal of the Institution of Engineers (India): Series B, 2012, 93, 271-275.	1.9	0
84	Term-Frequency Inverse-Document Frequency Definition Semantic (TIDS) Based Focused Web Crawler. Communications in Computer and Information Science, 2012, , 31-36.	0.5	7
85	Performance Evaluation of a Novel iTongue for Indian Black Tea Discrimination. IEEE Sensors Journal, 2011, 11, 3462-3468.	4.7	19
86	A novel approach using Dynamic Social Impact Theory for optimization of impedance-Tongue (iTongue). Chemometrics and Intelligent Laboratory Systems, 2011, 109, 65-76.	3.5	34
87	Role of Segmentation in Medical Imaging: A Comparative Study. International Journal of Computer Applications, 2011, 29, 54-61.	0.2	22
88	A novel iTongue for Indian black tea discrimination. Sensors and Actuators B: Chemical, 2010, 148, 601-609.	7.8	31
89	Recognition of Handwritten Character of Manipuri Script. Journal of Computers, 2010, 5, .	0.4	13
90	Consistency Enforcement Using Ontology on Web. Journal of Computers, 2010, 5, .	0.4	2

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91	Design of CORE. , 2009, , .		3
92	Efficient Implementation of AES Algorithm in FPGA Device. , 2007, , .		10
93	An Efficient Montgomery Multiplication Algorithm and RSA Cryptographic Processor. , 2007, , .		13
94	Identification of MIMO Systems by Input-Output Takagi-Sugeno Fuzzy Models. Lecture Notes in Computer Science, 2001, , 1050-1059.	1.3	2