

Vinod Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

2,527
citations

201674

27
h-index

223800

46
g-index

111
all docs

111
docs citations

111
times ranked

2049
citing authors

#	ARTICLE	IF	CITATIONS
1	An elliptic curve cryptography based mutual authentication scheme for smart grid communications using biometric approach. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 698-705.	3.9	20
2	EAAF: ECC-based anonymous authentication framework for cloud-medical system. International Journal of Computers and Applications, 2022, 44, 491-500.	1.3	3
3	SCGKM: a secure and cost-effective group key management scheme for multicast communication in large dynamic groups. International Journal of Information Technology (Singapore), 2022, 14, 781-788.	2.7	3
4	Design Flaws and Suggested Improvement of Secure Medical Data Sharing Scheme Based on Blockchain. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 823-832.	0.7	1
5	Cryptanalysis and design flaws of anonymous ECC based self-certified key distribution scheme for smart grid. Materials Today: Proceedings, 2022, 57, 2185-2189.	1.8	1
6	RAFI: Robust Authentication Framework for IoT-Based RFID Infrastructure. Sensors, 2022, 22, 3110.	3.8	8
7	RAPCHI: Robust authentication protocol for IoMT-based cloud-healthcare infrastructure. Journal of Supercomputing, 2022, 78, 16167-16196.	3.6	10
8	CKMIB: Construction of Key Agreement Protocol for Cloud Medical Infrastructure Using Blockchain. IEEE Access, 2022, 10, 67787-67801.	4.2	13
9	A secure and energy efficient key agreement framework for vehicle-grid system. Journal of Information Security and Applications, 2022, 68, 103231.	2.5	6
10	RAKS: robust authentication and key agreement scheme for satellite infrastructure. Telecommunication Systems, 2022, 81, 83-98.	2.5	3
11	A Computationally Efficient and Scalable Key Management Scheme for Access Control of Media Delivery in Digital Pay-TV Systems. Multimedia Tools and Applications, 2021, 80, 1-34.	3.9	61
12	LKM-AMI: A Lightweight Key Management Scheme for Secure two Way Communications between Smart Meters and HAN Devices of AMI System in Smart Grid. Peer-to-Peer Networking and Applications, 2021, 14, 82-100.	3.9	7
13	SEBAP: A secure and efficient biometric-assisted authentication protocol using ECC for vehicular cloud computing. International Journal of Communication Systems, 2021, 34, e4103.	2.5	39
14	LAKAF: Lightweight authentication and key agreement framework for smart grid network. Journal of Systems Architecture, 2021, 116, 102053.	4.3	50
15	A secure and efficient key agreement framework for critical energy infrastructure using mobile device. Telecommunication Systems, 2021, 78, 539-557.	2.5	17
16	A computationally efficient centralized group key distribution protocol for secure multicast communications based upon RSA public key cryptosystem. Journal of King Saud University - Computer and Information Sciences, 2020, 32, 1081-1094.	3.9	24
17	Polynomial based non-interactive session key computation protocol for secure communication in dynamic groups. International Journal of Information Technology (Singapore), 2020, 12, 283-288.	2.7	16
18	ESEAP: ECC based secure and efficient mutual authentication protocol using smart card. Journal of Information Security and Applications, 2020, 51, 102443.	2.5	36

#	ARTICLE	IF	CITATIONS
19	RSEAP: RFID based secure and efficient authentication protocol for vehicular cloud computing. Vehicular Communications, 2020, 22, 100213.	4.0	49
20	A secure and robust group key distribution and authentication protocol with efficient rekey mechanism for dynamic access control in secure group communications. International Journal of Communication Systems, 2020, 33, e4465.	2.5	10
21	CSEF: Cloud-Based Secure and Efficient Framework for Smart Medical System Using ECC. IEEE Access, 2020, 8, 107838-107852.	4.2	63
22	Current Reduction in EPAS System of Electric Vehicles using 2-DOF PID Controller tuned with GWO and SSA. , 2020, , .		0
23	PALK: Password-based anonymous lightweight key agreement framework for smart grid. International Journal of Electrical Power and Energy Systems, 2020, 121, 106121.	5.5	56
24	Information count and distribution matrix: A contemporary approach for content-based brain image indexing. International Journal of Imaging Systems and Technology, 2020, 30, 779-793.	4.1	0
25	SFVCC: Chaotic map-based security framework for vehicular cloud computing. IET Intelligent Transport Systems, 2020, 14, 241-249.	3.0	14
26	An Efficient and Scalable Distributed Key Management Scheme Using Ternary Tree for Secure Communication in Dynamic Groups. Lecture Notes in Electrical Engineering, 2020, , 152-164.	0.4	4
27	Design Flaws and Cryptanalysis of Elliptic Curve Cryptography-Based Lightweight Authentication Scheme for Smart Grid Communication. Lecture Notes in Electrical Engineering, 2020, , 169-179.	0.4	5
28	Design Flaws and Cryptanalysis of a Standard Mutual Authentication Protocol for Cloud Computing-Based Healthcare System. Lecture Notes in Electrical Engineering, 2020, , 99-109.	0.4	3
29	Reply to comment on "SFVCC: Chaotic map-based security framework for vehicular cloud computing". IET Intelligent Transport Systems, 2020, 14, 1724-1724.	3.0	1
30	A secure user authentication protocol using elliptic curve cryptography. Journal of Discrete Mathematical Sciences and Cryptography, 2019, 22, 521-530.	0.8	22
31	An Identity-Based Authentication Framework for Big Data Security. Lecture Notes in Networks and Systems, 2019, , 63-71.	0.7	12
32	A secure elliptic curve cryptography based mutual authentication protocol for cloud-assisted TMIS. Telematics and Informatics, 2019, 38, 100-117.	5.8	47
33	Intensity population based unsupervised hemorrhage segmentation from brain CT images. Expert Systems With Applications, 2018, 97, 325-335.	7.6	13
34	Fully Homomorphic Encryption Scheme with Probabilistic Encryption Based on Euler's Theorem and Application in Cloud Computing. Advances in Intelligent Systems and Computing, 2018, , 605-611.	0.6	14
35	Detection of myocardial infarction in 12 lead ECG using support vector machine. Applied Soft Computing Journal, 2018, 64, 138-147.	7.2	119
36	An Efficient Mutual Authentication Framework for Healthcare System in Cloud Computing. Journal of Medical Systems, 2018, 42, 142.	3.6	59

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37	Evaluation of cognitive behavior among deaf subjects with video game as intervention. Cognitive Systems Research, 2017, 42, 42-57.	2.7	8
38	Liver Ultrasound Image Segmentation Using Region-Difference Filters. Journal of Digital Imaging, 2017, 30, 376-390.	2.9	14
39	Approach towards automatic segmentation of diaphragm from ultrasound images. , 2017, , .		0
40	A hybrid computer-aided diagnosis system for abnormality detection in mammograms. , 2017, , .		2
41	An advanced web-based digital image processing virtual lab using LabVIEW. , 2017, , .		2
42	Alpha-trimmed first order statistics for the classification of liver US images. , 2017, , .		0
43	A Study of Pairing-Free Identity-Based Mutual Authenticated Protocol for Cloud Computing. International Journal of Engineering Research and Applications, 2017, 07, 10-14.	0.1	4
44	Side lobe and grating lobe suppression in stepped frequency pulse train using multi-objective optimization algorithms. , 2016, , .		2
45	Performance analysis of femtocell in macro-cellular environment. , 2016, , .		1
46	A study and comparison of different image segmentation algorithms. , 2016, , .		14
47	IFCM Based Segmentation Method for Liver Ultrasound Images. Journal of Medical Systems, 2016, 40, 249.	3.6	7
48	Performance Evaluation of Color Models in the Fusion of Functional and Anatomical Images. Journal of Medical Systems, 2016, 40, 122.	3.6	10
49	Feature-Motivated Simplified Adaptive PCNN-Based Medical Image Fusion Algorithm in NSST Domain. Journal of Digital Imaging, 2016, 29, 73-85.	2.9	83
50	Grating lobe and sidelobe suppression using Multi-Objective Optimization Techniques. , 2015, , .		2
51	A CAD system for B-mode fatty liver ultrasound images using texture features. Journal of Medical Engineering and Technology, 2015, 39, 123-130.	1.4	17
52	Cognitive Behavior Evaluation Based on Physiological Parameters among Young Healthy Subjects with Yoga as Intervention. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-13.	1.3	100
53	ECG acquisition under incorrect electrode positions. , 2015, , .		1
54	Nonsampled shearlet based CT and MR medical image fusion using biologically inspired spiking neural network. Biomedical Signal Processing and Control, 2015, 18, 91-101.	5.7	124

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55	6-Benzylaminopurine affects lipid peroxidation and membrane permeability and thereby preserves curd quality and antioxidants during storage of cauliflower. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	2.1	15
56	Normal limits of the electrocardiogram in Indians. <i>Journal of Electrocardiology</i> , 2015, 48, 652-668.	0.9	15
57	SVM-Based CAC System for B-Mode Kidney Ultrasound Images. <i>Journal of Digital Imaging</i> , 2015, 28, 448-458.	2.9	33
58	Multi-Scale Decomposition Transform Based Approach for CT and MR Image Fusion. <i>Journal of Medical Imaging and Health Informatics</i> , 2015, 5, 715-723.	0.3	2
59	Multimodality medical image fusion based on new features in NSST domain. <i>Biomedical Engineering Letters</i> , 2014, 4, 414-424.	4.1	52
60	An ANN-based HRV classifier for cardiac health prognosis. <i>International Journal of Electronic Healthcare</i> , 2014, 7, 315.	0.3	2
61	An efficient new method for the detection of QRS in electrocardiogram. <i>Computers and Electrical Engineering</i> , 2014, 40, 1717-1730.	4.8	86
62	CT and MR Image Fusion Scheme in Nonsampled Contourlet Transform Domain. <i>Journal of Digital Imaging</i> , 2014, 27, 407-418.	2.9	83
63	Neural Network Ensemble Based CAD System for Focal Liver Lesions from B-Mode Ultrasound. <i>Journal of Digital Imaging</i> , 2014, 27, 520-537.	2.9	75
64	SVM-Based Characterization of Liver Ultrasound Images Using Wavelet Packet Texture Descriptors. <i>Journal of Digital Imaging</i> , 2013, 26, 530-543.	2.9	149
65	Texture analysis based segmentation and classification of oral cancer lesions in color images using ANN. , 2013, , .		25
66	A comparative study of computer-aided classification systems for focal hepatic lesions from B-mode ultrasound. <i>Journal of Medical Engineering and Technology</i> , 2013, 37, 292-306.	1.4	46
67	A Pairing-Free Identity Based Authentication Framework for Cloud Computing. <i>Lecture Notes in Computer Science</i> , 2013, , 721-727.	1.3	17
68	Design of high delay block using voltage scaling technique. , 2012, , .		1
69	A rapid approach for prediction of liver cirrhosis based on first order statistics. , 2011, , .		19
70	Prediction of Cirrhosis Based on Singular Value Decomposition of Gray Level Co-occurrence Matrix and a Neural Network Classifier. , 2011, , .		24
71	Multiclass Brain Tumor Classification Using GA-SVM. , 2011, , .		30
72	Classification of brain tumors using PCA-ANN. , 2011, , .		30

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73	Prediction of cirrhosis from liver ultrasound B-mode images based on Laws' masks analysis. , 2011, , .		26
74	Neural network based focal liver lesion diagnosis using ultrasound images. Computerized Medical Imaging and Graphics, 2011, 35, 315-323.	5.8	71
75	A comparative study on spectral parameters of HRV in yogic and non-yogic practitioners. International Journal of Medical Engineering and Informatics, 2010, 2, 1.	0.3	8
76	Denoising of ultrasound images using Curvelet Transform. , 2010, , .		8
77	Virtual lab for ultrasound image enhancement. , 2010, , .		0
78	ECG delineation techniques and applications in Cobra venom interacted patients. , 2009, , .		0
79	Medical feature based qualitative evaluation of denoising techniques for ultrasound liver images. International Journal of Signal and Imaging Systems Engineering, 2008, 1, 135.	0.6	2
80	COMPARATIVE STUDY OF WAVELET BASED NEURAL NETWORK AND NEURO-FUZZY SYSTEMS. International Journal of Wavelets, Multiresolution and Information Processing, 2007, 05, 879-906.	1.3	5
81	Time-Evolution of Cardiovascular Variability During Autonomic Function Tests in Physiological Investigations. , 2006, 2006, 1772-5.		3
82	Vibration based Fault Diagnosis of induction Motor. IETE Technical Review (Institution of Electronics) Tj ETQq0 0 0 ggBT /Overlock 10 Tf 3.2		2
83	The Time Evolution of Frequency Components of Heart Rate Variability Using Wavelets. IETE Journal of Research, 2006, 52, 481-488.	2.6	3
84	Real-Time Identification of Distributed Bearing Faults in Induction Motor. , 2006, , .		1
85	Detection of Bearing Failure in Rotating Machine Using Adaptive Neuro-Fuzzy Inference System. , 2006, , .		4
86	Time-Evolution of Cardiovascular Variability During Autonomic Function Tests in Physiological Investigations. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
87	SVM Based System for classification of Microcalcifications in Digital Mammograms. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
88	Improved modified AZTEC technique for ECG data compression: Effect of length of parabolic filter on reconstructed signal. Computers and Electrical Engineering, 2005, 31, 334-344.	4.8	57
89	Hansen Disease Diagnostics using Wavelets, Fuzzy and EBP-NN based Expert System. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2004, 21, 153-175.	3.2	2
90	Quality Assurance in Cardiac Disease Diagnostic using Computerised Feature Extraction of ECG Signal. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2003, 20, 377-386.	3.2	5

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91	ECG Data Compression using EBP-NN. IETE Technical Review (Institution of Electronics and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 622	3.2	4
92	Cascade Control of Interconnected System Using Neural Network. IETE Journal of Research, 2002, 48, 461-469.	2.6	6
93	Representation of heterogeneous objects during design, processing and freeform-fabrication. Materials & Design, 2001, 22, 185-197.	5.1	18
94	ECG Data Compression using Non-redundant Templates. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	3.2	12
95	ANN-based QRS-complex analysis of ECG. Journal of Medical Engineering and Technology, 1998, 22, 160-167.	1.4	97
96	Signal-analysis and a heuro-logistic interpretation of multi-lead electrocardiograms. International Journal of Systems Science, 1998, 29, 323-334.	5.5	8
97	ECG data compression using fast Walsh transform and its clinical acceptability. International Journal of Systems Science, 1997, 28, 831-836.	5.5	10
98	Artificial neural network based wave complex detection in electrocardiograms. International Journal of Systems Science, 1997, 28, 125-132.	5.5	30
99	Direct data compression techniques for ECG signals: effect of sampling frequency on performance. International Journal of Systems Science, 1997, 28, 217-228.	5.5	13
100	An assessment of data formats for layered manufacturing. Advances in Engineering Software, 1997, 28, 151-164.	3.8	99
101	Hartley Transform for Detection of Seismic Events. IETE Journal of Research, 1994, 40, 231-236.	2.6	0
102	Advances in Automatic Seismic Detection. IETE Journal of Education Online, 1988, 29, 123-131.	0.6	0
103	Integration of Next Generation IIoT with Blockchain for the Development of Smart Industries. Emerging Science Journal, 0, 4, 1-17.	3.7	22
104	Venom and ECG Signal Processing. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 165-186.	0.4	0