

Shabir Parah

List of Publications by Year in descending order

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111
papers

2,424
citations

218592

26
h-index

254106

43
g-index

115
all docs

115
docs citations

115
times ranked

1175
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust and blind watermarking technique in DCT domain using inter-block coefficient differencing. , 2016, 53, 11-24.		181
2	Hiding clinical information in medical images: A new high capacity and reversible data hiding technique. Journal of Biomedical Informatics, 2017, 66, 214-230.	2.5	158
3	Dual watermarking framework for privacy protection and content authentication of multimedia. Future Generation Computer Systems, 2019, 94, 654-673.	4.9	140
4	Information hiding in medical images: a robust medical image watermarking system for E-healthcare. Multimedia Tools and Applications, 2017, 76, 10599-10633.	2.6	137
5	Secure and Robust Digital Image Watermarking Using Coefficient Differencing and Chaotic Encryption. IEEE Access, 2018, 6, 19876-19897.	2.6	135
6	Enhancing speed of SIMON: A light-weight-cryptographic algorithm for IoT applications. Multimedia Tools and Applications, 2019, 78, 32633-32657.	2.6	85
7	An efficient watermarking technique for tamper detection and localization of medical images. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 1799-1808.	3.3	75
8	Data hiding in scrambled images: A new double layer security data hiding technique. Computers and Electrical Engineering, 2014, 40, 70-82.	3.0	71
9	Electronic Health Record hiding in Images for smart city applications: A computationally efficient and reversible information hiding technique for secure communication. Future Generation Computer Systems, 2020, 108, 935-949.	4.9	70
10	A reversible and secure patient information hiding system for IoT driven e-health. International Journal of Information Management, 2019, 45, 262-275.	10.5	69
11	Efficient Security and Authentication for Edge-Based Internet of Medical Things. IEEE Internet of Things Journal, 2021, 8, 15652-15662.	5.5	63
12	Information hiding in edges: A high capacity information hiding technique using hybrid edge detection. Multimedia Tools and Applications, 2018, 77, 185-207.	2.6	60
13	Hiding Electronic Patient Record (EPR) in medical images: A high capacity and computationally efficient technique for e-healthcare applications. Journal of Biomedical Informatics, 2017, 73, 125-136.	2.5	59
14	A New Reversible and high capacity data hiding technique for E-healthcare applications. Multimedia Tools and Applications, 2017, 76, 3943-3975.	2.6	57
15	DWFCAT: Dual Watermarking Framework for Industrial Image Authentication and Tamper Localization. IEEE Transactions on Industrial Informatics, 2021, 17, 5108-5117.	7.2	54
16	Efficient image encryption scheme based on generalized logistic map for real time image processing. Journal of Real-Time Image Processing, 2020, 17, 2139-2151.	2.2	49
17	Secure data transmission framework for confidentiality in IoTs. Ad Hoc Networks, 2019, 95, 101989.	3.4	46
18	Reversible data hiding exploiting Huffman encoding with dual images for IoMT based healthcare. Computer Communications, 2020, 163, 134-149.	3.1	46

#	ARTICLE	IF	CITATIONS
19	A new secure and robust watermarking technique based on logistic map and modification of DC coefficient. <i>Nonlinear Dynamics</i> , 2018, 93, 1933-1951.	2.7	41
20	A Security Management Framework for Big Data in Smart Healthcare. <i>Big Data Research</i> , 2021, 25, 100225.	2.6	35
21	Hiding in encrypted images: a three tier security data hiding technique. <i>Multidimensional Systems and Signal Processing</i> , 2017, 28, 549-572.	1.7	33
22	Realization of a New Robust and Secure Watermarking Technique Using DC Coefficient Modification in Pixel Domain and Chaotic Encryption. <i>Journal of Global Information Management</i> , 2017, 25, 80-102.	1.4	30
23	A secure and robust information hiding technique for covert communication. <i>International Journal of Electronics</i> , 2015, 102, 1253-1266.	0.9	29
24	Embedding in medical images: an efficient scheme for authentication and tamper localization. <i>Multimedia Tools and Applications</i> , 2020, 79, 21441-21470.	2.6	29
25	Secret Sharing-based Personal Health Records Management for the Internet of Health Things. <i>Sustainable Cities and Society</i> , 2021, 74, 103129.	5.1	29
26	An efficient image encryption scheme for healthcare applications. <i>Multimedia Tools and Applications</i> , 2022, 81, 7253-7270.	2.6	29
27	Realisation and robustness evaluation of a blind spatial domain watermarking technique. <i>International Journal of Electronics</i> , 2017, 104, 659-672.	0.9	27
28	Utilizing neighborhood coefficient correlation: a new image watermarking technique robust to singular and hybrid attacks. <i>Multidimensional Systems and Signal Processing</i> , 2018, 29, 1095-1117.	1.7	27
29	Reversible Data Hiding for Electronic Patient Information Security for Telemedicine Applications. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 9129-9144.	1.7	27
30	A self-embedding technique for tamper detection and localization of medical images for smart-health. <i>Multimedia Tools and Applications</i> , 2021, 80, 29939-29964.	2.6	22
31	On the realization of robust watermarking system for medical images. , 2015, , .		19
32	High Capacity and Secure Electronic Patient Record (EPR) Embedding in Color Images for IoT Driven Healthcare Systems. <i>Studies in Big Data</i> , 2018, , 409-437.	0.8	18
33	Secure data transmission in IoTs based on CLoG edge detection. <i>Future Generation Computer Systems</i> , 2021, 121, 59-73.	4.9	17
34	Adaptive image encryption based on twin chaotic maps. <i>Multimedia Tools and Applications</i> , 2022, 81, 8179-8198.	2.6	17
35	INDFORG: Industrial Forgery Detection Using Automatic Rotation Angle Detection and Correction. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 3630-3639.	7.2	16
36	Underwater image restoration: A state-of-the-art review. <i>IET Image Processing</i> , 2021, 15, 269-285.	1.4	16

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37	Underwater object detection: architectures and algorithms – a comprehensive review. <i>Multimedia Tools and Applications</i> , 2022, 81, 20871-20916.	2.6	16
38	Room temperature high Giant Magnetoresistance graphene based spin valve and its application for realization of logic gates. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126171.	0.9	15
39	Data hiding in intermediate significant bit planes, a high capacity blind steganographic technique. , 2012, , .		14
40	A Robust and Computationally Efficient Digital Watermarking Technique Using Inter Block Pixel Differencing. <i>Intelligent Systems Reference Library</i> , 2017, , 223-252.	1.0	14
41	Embedding information reversibly in medical images for e-health. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 39, 8389-8398.	0.8	14
42	Secure patient data transmission on resource constrained platform. <i>Multimedia Tools and Applications</i> , 2024, 83, 15001-15026.	2.6	14
43	Robustness Analysis of a Digital Image Watermarking Technique for Various Frequency Bands in DCT Domain. , 2015, , .		13
44	Embedding in medical images with contrast enhancement and tamper detection capability. <i>Multimedia Tools and Applications</i> , 2021, 80, 2009-2030.	2.6	13
45	High capacity reversible stenographic technique based on image resizing and pixel permutation. , 2017, , .		12
46	Tamper Detection and Self-Recovery of Medical Imagery for Smart Health. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 3465-3481.	1.7	12
47	Secure Patient Data Transfer Using Information Embedding and Hyperchaos. <i>Sensors</i> , 2021, 21, 282.	2.1	12
48	Power line noise and baseline wander removal from ECG signals using empirical mode decomposition and lifting wavelet transform technique. <i>Health and Technology</i> , 2022, 12, 745-756.	2.1	12
49	A high capacity data hiding scheme based on edge detection and even-odd plane separation. , 2015, , .		11
50	A Secure Medical Image Watermarking Technique for E-Healthcare Applications. , 2019, , 119-141.		10
51	Utilization of secret sharing technology for secure communication: a state-of-the-art review. <i>Multimedia Tools and Applications</i> , 2021, 80, 517-541.	2.6	10
52	IEFHAC: Image encryption framework based on hessenberg transform and chaotic theory for smart health. <i>Multimedia Tools and Applications</i> , 2022, 81, 18829-18853.	2.6	10
53	Analysis of Streaming Data Using Big Data and Hybrid Machine Learning Approach. , 2019, , 629-643.		9
54	Double layer security using crypto-stego techniques: a comprehensive review. <i>Health and Technology</i> , 2022, 12, 9-31.	2.1	9

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55	Fragility evaluation of intermediate significant bit embedding (ISBE) based digital image watermarking scheme for content authentication. , 2014, , .		8
56	Pixel Repetition Technique: A High Capacity and Reversible Data Hiding Method for E-Healthcare Applications. Studies in Computational Intelligence, 2017, , 371-398.	0.7	8
57	A New Filter Bank Multicarrier (FBMC) Based Cognitive Radio for 5G Networks Using Optimization Techniques. Wireless Personal Communications, 2020, 112, 1265-1280.	1.8	8
58	Realization of an Adaptive Data Hiding System for Electronic Patient Record, Embedding in Medical Images. Lecture Notes in Intelligent Transportation and Infrastructure, 2019, , 47-70.	0.3	8
59	Hash-based image watermarking technique for tamper detection and localization. Health and Technology, 2022, 12, 385-400.	2.1	8
60	Detection of Breast Cancer Masses in Mammogram Images with Watershed Segmentation and Machine Learning Approach. , 2022, , 35-60.		8
61	Oversampled Sigma Delta ADC decimation filter: Design techniques, challenges, tradeoffs and optimization. , 2015, , .		7
62	A transform domain based robust color image watermarking scheme for single and dual attacks. , 2017, , .		7
63	A Novel Laplacian of Gaussian (LoG) and Chaotic Encryption Based Image Steganography Technique. , 2020, , .		7
64	A New Optimization Technique in Massive MIMO and LSAS using Hybrid Architecture and Channel Estimation Algorithm for 5G Networks. Wireless Personal Communications, 2021, 120, 771-785.	1.8	7
65	Blind digital speech watermarking using filter bank multicarrier modulation for 5G and IoT driven networks. International Journal of Speech Technology, 2018, 21, 715-722.	1.4	6
66	Color Image Authentication using dual watermarks. , 2019, , .		6
67	Realization of a Sub 10-nm Silicene Magnetic Tunnel Junction and Its Application for Magnetic Random Access Memory and Digital Logic. IEEE Nanotechnology Magazine, 2021, 20, 466-473.	1.1	6
68	Fast Image Encryption Framework for Medical Images. , 2021, , .		6
69	Electrocardiogram (ECG) denoising method utilizing Empirical Mode Decomposition (EMD) with SWT and a Mean based filter. , 2021, , .		6
70	Towards Green Capacity in Massive MIMO Based 4G-LTE a Cell Using Beam-Forming Vector Based Sectored Relay Planning. Wireless Personal Communications, 2017, 97, 5767-5781.	1.8	5
71	Compression and denoising of speech transmission using Daubechies wavelet family. International Journal of Wireless and Mobile Computing, 2017, 12, 313.	0.1	5
72	StegNmark: A Joint Stego-Watermark Approach for Early Tamper Detection. Studies in Computational Intelligence, 2017, , 427-452.	0.7	5

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73	A new method of speech transmission over space time block coded co-operative MIMO-OFDM networks using time and space diversity. International Journal of Speech Technology, 2018, 21, 65-77.	1.4	5
74	Realization of a Reversible Data Hiding Framework using Histogram Bin Shifting for Color Images. , 2019, , .		5
75	Secure and reversible data hiding scheme for healthcare system using magic rectangle and a new interpolation technique. , 2019, , 267-309.		5
76	SVIoT: A Secure Visual-IoT Framework for Smart Healthcare. Sensors, 2022, 22, 1773.	2.1	5
77	On the realization of a spatial domain data hiding technique based on intermediate significant bit plane embedding (ISBPE) and Post Embedding Pixel Adjustment (PEPA). , 2013, , .		4
78	A New Method of Haar and Db10 Based Secured Compressed Data Transmission Over GSM Voice Channel. Studies in Computational Intelligence, 2017, , 401-426.	0.7	4
79	Adaptive Color Image Encryption Scheme Based on Multiple Distinct Chaotic Maps and DNA Computing. Mathematics, 2022, 10, 2004.	1.1	4
80	A new reversible stenographic technique based on pixel repetition method (PRM) and special data shifting (SDS). , 2017, , .		3
81	Chaos based novel cryptographic technique based on a new logistic map. International Journal of Social Computing and Cyber-Physical Systems, 2017, 2, 73.	0.1	3
82	PAPR reduction in MIMO-OFDM system using combination of OSTBC Encoder and Spreading code sequence. , 2013, , .		2
83	Bit Error Rate (BER) improvement of Multiple Input Multiple Output Orthogonal Frequency Division Multiplexing (MIMO-OFDM) system using bit level scrambling. , 2015, , .		2
84	On the design and performance evaluation of compressed speech transmission over wireless channel. , 2015, , .		2
85	Energy efficient image transmission through orthogonal frequency division multiplexing (OFDM) based multiple input multiple output (MIMO) systems. , 2017, , .		2
86	Realization of a Robust Watermarking System in Spatial Domain. Lecture Notes in Electrical Engineering, 2021, , 369-379.	0.3	2
87	Self-embedding framework for tamper detection and restoration of color images. Multimedia Tools and Applications, 2022, 81, 18563-18594.	2.6	2
88	Automatic Classification of COVID-19 Infected Patients Using Convolution Neural Network Models. , 2022, , 119-131.		2
89	Orthogonal Variable Spreading Factor (OVSF) based image transmission using Multiple Input Multiple Output Orthogonal Frequency Division Multiplexing (MIMO-OFDM) system. , 2012, , .		1
90	A new multiple input multiple output multi-carrier direct sequence code division multiple access system using T-SS spreading with link budget analysis. International Journal of Wireless and Mobile Computing, 2016, 10, 148.	0.1	1

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91	Analytical analysis and effect of scrambling on inter-relay interference in a tri-sectored LTE-A network. <i>International Journal of Wireless and Mobile Computing</i> , 2018, 14, 149.	0.1	1
92	A reversible and secure electronic patient record embedding technique using histogram bin shifting and RC6 encryption. , 2019, , 245-266.		1
93	Impact of antenna and beam-selection-based sectored relay planning for performance evaluation of 4G LTE-A tri-sectored cell. <i>Digital Communications and Networks</i> , 2019, 5, 121-130.	2.7	1
94	Information Embedding Using DNA Sequences for Covert Communication. <i>Algorithms for Intelligent Systems</i> , 2021, , 111-129.	0.5	1
95	On exploiting MIMO technology for achieving maximum detection probability and mitigating interference in tri-sectored co-operative cognitive radio networks. <i>International Journal of Wireless and Mobile Computing</i> , 2017, 13, 200.	0.1	1
96	Role of Multimedia in Medicine: Study of Visual Prosthesis. , 2019, , 559-576.		1
97	Modeling and Simulation of High-Performance CrTe Intrinsic Half Metal-Based Spin Valve and Spin Diode. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 021002.	0.9	1
98	A pattern recognition approach based on feature-wise comparison. , 2012, , .		0
99	Novel hybrid technique for PAPR reduction in OVSA based OSTBC OFDM system. , 2015, , .		0
100	Design and realisation of Multirate signal processor for enhancement performance of Digital receivers. , 2015, , .		0
101	Performance Evaluation and Future Scope of Image Secret Sharing Schemes. , 2018, , .		0
102	A High Capacity Framework for Reversible Information Embedding in Medical Images. , 2018, , .		0
103	Secure Framework for Patient Data Transmission on Mobile-Cloud Platform. , 2018, , .		0
104	Reversible Embedding in Color Images using Interpolation and Bit Substitution Pattern (BSP). , 2020, , .		0
105	CrO ₂ Half Metal-Based Magnetic Tunnel Junction and Its Application for Digital Computing. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 563-572.	0.3	0
106	Information Hiding in Color Images Utilizing Multi-bit Substitution Patterns. <i>Algorithms for Intelligent Systems</i> , 2021, , 131-155.	0.5	0
107	LSB Technique-Based Dual-Image Steganography Using COS Function. <i>Advances in Intelligent Systems and Computing</i> , 2022, , 243-249.	0.5	0
108	On the Design and Realization of Non-Synchronous Frequency Hopping Spread Spectrum for Securing Data over Mobile and Computer Networks. <i>Communications in Computer and Information Science</i> , 2012, , 227-236.	0.4	0

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109	Resource Allocation in Co-Operative Relay Networks for IOT Driven Broadband Multimedia Services. , 2019, , 703-721.		0
110	Realization of a New Robust and Secure Watermarking Technique Using DC Coefficient Modification in Pixel Domain and Chaotic Encryption. , 2020, , 1-21.		0
111	A new method of power efficient speech transmission over 5G networks using new signaling techniques. , 2020, , 139-159.		0