

# Kameswara Rao Namuduri

## List of Publications by Year in descending order

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Version: 2024-02-01

115  
papers

1,327  
citations

516710

16  
h-index

434195

31  
g-index

129  
all docs

129  
docs citations

129  
times ranked

1188  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gabor filter-based edge detection. Pattern Recognition, 1992, 25, 1479-1494.	8.1	332
2	A Survey and Analysis of Mobility Models for Airborne Networks. IEEE Communications Surveys and Tutorials, 2014, 16, 1221-1238.	39.4	106
3	A Smooth-Turn Mobility Model for Airborne Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 3359-3370.	6.3	88
4	Video stabilization using principal component analysis and scale invariant feature transform in particle filter framework. IEEE Transactions on Consumer Electronics, 2009, 55, 1714-1721.	3.6	64
5	HORNS: A homomorphic encryption scheme for Cloud Computing using Residue Number System. , 2011, , .		46
6	A Decision Support Framework for Automated Screening of Diabetic Retinopathy. International Journal of Biomedical Imaging, 2006, 2006, 1-8.	3.9	45
7	Analytical Estimation of Path Duration in Mobile Ad Hoc Networks. IEEE Sensors Journal, 2012, 12, 1828-1835.	4.7	45
8	Dose prediction with deep learning for prostate cancer radiation therapy: Model adaptation to different treatment planning practices. Radiotherapy and Oncology, 2020, 153, 228-235.	0.6	45
9	A lossless image compression algorithm using variable block size segmentation. IEEE Transactions on Image Processing, 1995, 4, 1396-1406.	9.8	28
10	<title>Fast texture database retrieval using extended fractal features</title>. , 1997, , .		28
11	Motion Estimation Using Spatio-Temporal Contextual Information. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 1111-1115.	8.3	26
12	Secure, Redundant, and Fully Distributed Key Management Scheme for Mobile Ad Hoc Networks: An Analysis. Eurasip Journal on Wireless Communications and Networking, 2005, 2005, 1.	2.4	25
13	The impact of multi-group multi-layer network structure on the performance of distributed consensus building strategies. International Journal of Robust and Nonlinear Control, 2013, 23, 653-662.	3.7	21
14	A smooth-turn mobility model for airborne networks. , 2012, , .		19
15	Initial Development of the Hybrid Aerial Underwater Robotic System (HAUCS): Internet of Things (IoT) for Aquaculture Farms. IEEE Internet of Things Journal, 2021, 8, 14013-14027.	8.7	19
16	Mobile ad hoc networks in the sky. , 2013, , .		18
17	Techniques for Constructing Indoor Navigation Systems for the Visually Impaired: A Review. IEEE Transactions on Human-Machine Systems, 2020, 50, 492-506.	3.5	18
18	Feature preserving image compression. Pattern Recognition Letters, 2003, 24, 2767-2776.	4.2	17

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19	Automatic extraction of highlights from a cricket video using MPEG-7 descriptors. , 2009, , .		17
20	Flying cell towers to the rescue. IEEE Spectrum, 2017, 54, 38-43.	0.7	17
21	Efficient computation of gabor filter based multiresolution responses. Pattern Recognition, 1994, 27, 925-938.	8.1	16
22	Dynamic Wi-Fi fingerprinting indoor positioning system. , 2014, , .		16
23	Airborne network. , 2012, , .		15
24	Estimation and Validation of the 3D Smooth-Turn Mobility Model for Airborne Networks. , 2013, , .		15
25	OCTOPUS: An On-Demand Communication Topology Updating Strategy for Mobile Sensor Networks. IEEE Sensors Journal, 2011, 11, 1004-1012.	4.7	13
26	Performance analysis of wavelets in embedded zerotree-based lossless image coding schemes. IEEE Transactions on Signal Processing, 1999, 47, 884-889.	5.3	12
27	Edge detection models based on Gabor filters. , 0, , .		9
28	<title>Detection of targets in low-resolution FLIR images using two-dimensional directional wavelets</title>. , 1998, 3371, 510.		8
29	Object Tracking in Video Using Particle Filtering. , 0, , .		8
30	A Comprehensive Modeling Framework for Airborne Mobility. , 2013, , .		8
31	An architecture to implement multiresolution. , 1991, , .		7
32	<title>Effect of signal-to-clutter ratio on template-based ATR</title>. , 1998, 3370, 408.		7
33	Computation and performance trade-offs in motion estimation algorithms. , 0, , .		7
34	Energy-aware, collaborative tracking with ad-hoc wireless sensor networks. , 0, , .		7
35	Analysis of Mobility Models for Airborne Networks. , 2013, , .		7
36	Aerial Base Stations for Enabling Cellular Communications during Emergency Situation. , 2017, , .		7

#	ARTICLE	IF	CITATIONS
37	Context-based lossless image coding using EZW framework. IEEE Transactions on Circuits and Systems for Video Technology, 2001, 11, 554-559.	8.3	6
38	Formation Control of UAVs for Connectivity Maintenance and Collision Avoidance. , 2019, , .		6
39	Air Corridors: Concept, Design, Simulation, and Rules of Engagement. Sensors, 2021, 21, 7536.	3.8	6
40	Control traffic analysis of on-demand routing protocols in ad-hoc wireless networks. , 0, , .		5
41	SVSS: Intelligent video surveillance system for aircraft. IEEE Aerospace and Electronic Systems Magazine, 2009, 24, 23-29.	1.3	5
42	A factor graph based dynamic spectrum allocation approach for cognitive network. , 2011, , .		5
43	Context modeling of wavelet coefficients in EZW-based lossless image coding. , 1999, , .		4
44	Cooperative communication based on random beamforming strategy in wireless sensor networks. , 2012, , .		4
45	Circuits, Systems, and Technologies for Detecting the Onset of Sudden Cardiac Death Through EKG Analysis. IEEE Circuits and Systems Magazine, 2013, 13, 10-25.	2.3	4
46	Statistical ranking of sensor observations for centralized detection with distributed sensors. , 2013, , .		4
47	Introduction to UAV Systems. , 0, , 1-25.		4
48	Neuroscience Foundations for Human Decision Making in Information Security: A General Framework and Experiment Design. Lecture Notes in Information Systems and Organisation, 2017, , 91-98.	0.6	4
49	Remote ID and Vehicle-to-Vehicle Communications for Unmanned Aircraft System Traffic Management. Lecture Notes in Computer Science, 2020, , 194-202.	1.3	4
50	SAR target detection by fusion of CFAR, variance, and fractal statistics. , 1998, 3374, 167.		3
51	Image metrics for clutter characterization. , 2000, , .		3
52	Issues with nested mobility. , 2003, , .		3
53	Voice over IP security and law enforcement. , 2005, , .		3
54	Distributed Source Coding using non-binary LDPC codes for sensor network applications. , 2007, , .		3

#	ARTICLE	IF	CITATIONS
55	Image Registration in Low Resolution Visual Sensor Networks. , 2008, , .		3
56	LDPC-like belief propagation algorithm for consensus building in wireless sensor networks. , 2009, , .		3
57	Image Change Detection Using Wireless Sensor Networks. , 2007, , 240-252.		3
58	A Lego Mindstorms NXT-Based Test Bench for Cohesive Distributed Multi-agent Exploratory Systems: Mobility and Coordination. , 2012, , .		3
59	A lossless image compression algorithm using variable block size segmentation. , 0, , .		2
60	A light weight dynamic rate control scheme for video transmission over IP network. Pattern Recognition Letters, 2004, 25, 817-827.	4.2	2
61	Link availability and its effects on the capacity of mobile ad hoc wireless networks - an analytical approach. , 2006, , .		2
62	A Framework for Estimating the Capacity of Multi Channel Digital Image Watermarking. , 2007, , .		2
63	2D-3D registration using intensity gradients. Proceedings of SPIE, 2011, , .	0.8	2
64	HORNS: A semi-perfectly secret homomorphic encryption system. , 2012, , .		2
65	Coarse automated registration of visual imagery with three-dimensional light detection and ranging models. Journal of Electronic Imaging, 2013, 22, 033035.	0.9	2
66	A Testbed for Multi-Domain Communication Networks Using Lego Mindstorms. , 2013, , .		2
67	Enabling next generation airborne communications [Guest Editorial]. , 2014, 52, 102-103.		2
68	Mobility Support for Next-Generation Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2016, 12, 2462754.	2.2	2
69	Impact of mobility on convergence rate in a wireless sensor network. , 2017, , .		2
70	Real-World Applications. , 0, , 194-213.		2
71	Using EEG Signal to Analyze IS Decision Making Cognitive Processes. Lecture Notes in Information Systems and Organisation, 2018, , 211-218.	0.6	2
72	A Dry Electrode-Based ECG Sensor with Motion Artifacts Cancellation and Signal Analysis for Heart Irregularity Detection. , 2020, , .		2

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73	A Low-power Dry Electrode-based ECG Signal Acquisition with De-noising and Feature Extraction. Journal of Signal Processing Systems, 2022, 94, 579-593.	2.1	2
74	Patterns of communication during full-scale emergency/disaster drills. Journal of Emergency Management, 2021, 19, 575-589.	0.3	2
75	<title>Improved template-based SAR ATR performance using learning vector quantization</title>. , 1998, 3462, 296.		1
76	<title>Perceptual image compression for data transmission on the battlefield</title>. , 1998, , .		1
77	Multi-priority video partitioning for CDMA based communication systems. , 2003, , .		1
78	Ad-hoc nodes and Internet connectivity using pseudo-wire interfaces. , 2003, , .		1
79	On the dependence of burst losses on the packet inter-arrival times in VoIP. , 2010, , .		1
80	Map updation using image registration for different sensors by camera calibration. , 2011, , .		1
81	Color-based features for registering image time series. Proceedings of SPIE, 2012, , .	0.8	1
82	Robust 3D reconstruction using LiDAR and N - visual image. Proceedings of SPIE, 2013, , .	0.8	1
83	Performance evaluation of eigenvalue-based detection strategies in a sensor network. , 2014, , .		1
84	A link between consensus building and Low Density Parity Check decoding. , 2015, , .		1
85	Impact of High Temperature on Performance of Wearable Electro-Textile Antennas. , 2019, , .		1
86	Communication Support for Unmanned Air Transportation [From the Guest Editors]. IEEE Vehicular Technology Magazine, 2020, 15, 20-21.	3.4	1
87	Impact of Leadership and Mobility on Consensus-Building in Sensor Networks. Sensors, 2020, 20, 1081.	3.8	1
88	Advanced Air Mobility [From the Guest Editors]. IEEE Vehicular Technology Magazine, 2021, 16, 87-164.	3.4	1
89	Reliability, Throughput and Latency Analysis of an Aerial Network. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 382-389.	0.3	1
90	Node Authentication in Networks Using Zero-Knowledge Proofs. , 2007, , 142-164.		1

#	ARTICLE	IF	CITATIONS
91	<title>Image quality metrics based on scale</title>. , 1998, , .		0
92	<title>Scale-based approach for image quality evaluation</title>. , 1998, 3308, 36.		0
93	Quantitative analysis of security protocols in wireless networks. , 0, , .		0
94	On the choice of wavelet in image compression applications. , 2003, , .		0
95	A practical approach for evaluating the capacity of watermarking channel. , 0, , .		0
96	SVSS: an intelligent video surveillance system for aircraft. , 2007, , .		0
97	Multimedia over Wireless Networks. Eurasip Journal on Wireless Communications and Networking, 2008, 2008, .	2.4	0
98	An active trust model based on zero knowledge proofs for airborne networks. , 2009, , .		0
99	Error analysis and performance estimation of two different mathematical methods for image registration. , 2010, , .		0
100	Power, performance and security optimized hardware design for H.264. , 2010, , .		0
101	Fast, Automated 2D Estimation and Error Reduction by Model Selection. , 2011, , .		0
102	Estimation of camera matrix using lidar and aerial images. Proceedings of SPIE, 2011, , .	0.8	0
103	The Impact of Multi-group Multi-layer Network Structure on the Performance of Distributed Consensus Building Strategies. , 2011, , .		0
104	The chief security officer problem. , 2011, , .		0
105	Detection of image transformation for reduced error in 2-D reconstruction. , 2012, , .		0
106	Characterizing rate distortion region for video coding from first principles. , 2015, , .		0
107	Safety, Security, and Privacy Aspects in UAV Networks. , 0, , 160-176.		0
108	Adaptive Gateway Discovery for Load Distribution in Hybrid Wireless Networks. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
109	Joint Flocking and Deconfliction in Unmanned Aerial Vehicle Swarms. , 2019, , .		0
110	Multi-Agent Systems (MAS) related data analytics in the Hybrid Aerial Underwater Robotic System (HAUCS). , 2021, , .		0
111	Tracing Cyber Crimes with a Privacy-Enabled Forensic Profiling System. , 2006, , 137-154.		0
112	A Hierarchical Framework for Estimating the Performance of an Aerial Network. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 119-130.	0.3	0
113	An Ecosystem for Disaster Relief Operations. , 2019, , .		0
114	Mobility Accelerates Consensus Building in Sensor Networks. , 2020, 4, 1-4.		0
115	An Experimental Study of Wi-Fi Access Service using Drones in Container Yard. , 2020, , .		0