Karl Andersson

List of Publications by Year
in descending order

126 papers	2,679 citations	430442 18 h-index	276539 41 g-index
132 all docs	132 docs citations	132 times ranked	1408 citing authors

#	Article	IF	Citations
1	A Survey of Blockchain From the Perspectives of Applications, Challenges, and Opportunities. IEEE Access, 2019, 7, 117134-117151.	2.6	571
2	IoT Based Real-time River Water Quality Monitoring System. Procedia Computer Science, 2019, 155, 161-168.	1.2	129
3	An international Master's program in green ICT as a contribution to sustainable development. Journal of Cleaner Production, 2016, 135, 223-239.	4.6	93
4	A Belief Rule Based Expert System for Datacenter PUE Prediction under Uncertainty. IEEE Transactions on Sustainable Computing, 2017, 2, 140-153.	2.2	72
5	Security, Privacy and Trust for Smart Mobile- Internet of Things (M-IoT): A Survey. IEEE Access, 2020, 8, 167123-167163.	2.6	70
6	A Belief Rule Based Expert System to Assess Tuberculosis under Uncertainty. Journal of Medical Systems, 2017, 41, 43.	2.2	67
7	Static Hand Gesture Recognition using Convolutional Neural Network with Data Augmentation. , 2019, , .		67
8	IoT based Smart System to Support Agricultural Parameters: A Case Study. Procedia Computer Science, 2019, 155, 648-653.	1.2	60
9	Bangla Handwritten Character Recognition using Convolutional Neural Network with Data Augmentation. , 2019, , .		59
10	A novel anomaly detection algorithm for sensor data under uncertainty. Soft Computing, 2018, 22, 1623-1639.	2.1	57
11	Facial Expression Recognition using Convolutional Neural Network with Data Augmentation. , 2019, , .		54
12	A belief rule-based expert system to assess suspicion of acute coronary syndrome (ACS) under uncertainty. Soft Computing, 2018, 22, 7571-7586.	2.1	52
13	An Integrated Approach of Belief Rule Base and Deep Learning to Predict Air Pollution. Sensors, 2020, 20, 1956.	2.1	52
14	A Deep Learning Inspired Belief Rule-Based Expert System. IEEE Access, 2020, 8, 190637-190651.	2.6	42
15	Attention-Based Bi-Directional Long-Short Term Memory Network for Earthquake Prediction. IEEE Access, 2021, 9, 56589-56603.	2.6	42
16	Speech Emotion Recognition in Neurological Disorders Using Convolutional Neural Network. Lecture Notes in Computer Science, 2020, , 287-296.	1.0	39
17	An Integrated CNN-RNN Framework to Assess Road Crack. , 2019, , .		35
18	A belief rule based expert system to assess clinical bronchopneumonia suspicion. , 2016, , .		33

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19	Performance analysis of an IP based protocol stack for WSNs. , 2016, , .		33
20	A belief rule based expert system to diagnose dengue fever under uncertainty. , 2017, , .		31
21	An Integrated Real-Time Deep Learning and Belief Rule Base Intelligent System to Assess Facial Expression Under Uncertainty. , 2020, , .		30
22	A web based belief rule based expert system to predict flood. , 2015, , .		29
23	Energy efficient multi-connectivity algorithms for ultra-dense 5G networks. Wireless Networks, 2020, 26, 2207-2222.	2.0	29
24	An Integrated Neural Network and SEIR Model to Predict COVID-19. Algorithms, 2021, 14, 94.	1.2	29
25	Detection and Classification of Skin Cancer by Using a Parallel CNN Model. , 2020, , .		29
26	Performance Evaluation of Permissioned Blockchain Platforms. , 2020, , .		27
27	A Comparative Analysis of the Ensemble Method for Liver Disease Prediction. , 2019, , .		27
28	Analyzing Sentiment of Movie Reviews in Bangla by Applying Machine Learning Techniques. , 2019, , .		25
29	An IoT-Belief Rule Base Smart System to Assess Autism. , 2018, , .		23
30	Heterogeneous wireless sensor networks for flood prediction decision support systems. , 2015, , .		22
31	Smart risk assessment systems using belief-rule-based DSS and WSN technologies. , 2014, , .		21
32	Real-time Performance Evaluation of LTE for IIoT. , 2018, , .		21
33	Capacity Management of Hyperscale Data Centers Using Predictive Modelling. Energies, 2019, 12, 3438.	1.6	21
34	Feature Selection Based Machine Learning to Improve Prediction ofÂParkinson Disease. Lecture Notes in Computer Science, 2021, , 496-508.	1.0	20
35	A Novel Deep Learning Approach toÂPredict Air Quality Index. Advances in Intelligent Systems and Computing, 2021, , 367-381.	0.5	20
36	A Belief Rule Based Expert System for Evaluating Technological Innovation Capability of High-Tech Firms Under Uncertainty. , 2019, , .		19

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37	A Review on Recent Advancements in FOREX Currency Prediction. Algorithms, 2020, 13, 186.	1.2	19
38	A Machine Learning Based Fall Detection for Elderly People with Neurodegenerative Disorders. Lecture Notes in Computer Science, 2020, , 194-203.	1.0	19
39	<i>M</i> ^{<i>4</i>} : multimedia mobility manager. , 2007, , .		16
40	Multimedia QoE optimized management using prediction and statistical learning. , 2010, , .		16
41	Optimized Access Network Selection in a Combined WLAN/LTE Environment. Wireless Personal Communications, 2011, 61, 739-751.	1.8	16
42	An interoperable IP based WSN for smart irrigation system. , 2017, , .		16
43	An Integrated Deep Learning and Belief Rule-Based Expert System for Visual Sentiment Analysis under Uncertainty. Algorithms, 2021, 14, 213.	1.2	16
44	Recommendation System for E-commerce Using Alternating Least Squares (ALS) on Apache Spark. Advances in Intelligent Systems and Computing, 2021, , 880-893.	0.5	15
45	Comparative Analysis of Recurrent Neural Networks in Stock Price Prediction for Different Frequency Domains. Algorithms, 2021, 14, 251.	1.2	15
46	Mobile e-services using HTML5. , 2012, , .		14
47	Improving Wi-Fi based indoor positioning using Particle Filter based on signal strength. , 2014, , .		14
48	Performance analysis of a surveillance system to detect and track vehicles using Haar cascaded classifiers and optical flow method. , 2017, , .		14
49	Gender Classification from Inertial Sensor-Based Gait Dataset. Advances in Intelligent Systems and Computing, 2021, , 583-596.	0.5	14
50	An Evolutionary Belief Rule-Based Clinical Decision Support System to Predict COVID-19 Severity under Uncertainty. Applied Sciences (Switzerland), 2021, 11, 5810.	1.3	14
51	Deep Learning Approach to Classify Parkinsonâ€™s Disease from MRI Samples. Lecture Notes in Computer Science, 2021, , 536-547.	1.0	14
52	Machine learning with Belief Rule-Based Expert Systems to predict stock price movements. Expert Systems With Applications, 2022, 206, 117706.	4.4	14
53	Selection of Energy Efficient Routing Protocol for Irrigation Enabled by Wireless Sensor Network. , 2017, , .		13
54	Reputation Based Security Model for Android Applications. , 2012, , .		12

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55	A Belief Rule Based Flood Risk Assessment Expert System using Real Time Sensor Data Streaming. , 2018, , .		12
56	A Digital Personal Assistant using Bangla Voice Command Recognition and Face Detection. , 2019, , .		12
57	Mosquito Classification Using Convolutional Neural Network with Data Augmentation. Advances in Intelligent Systems and Computing, 2021, , 865-879.	0.5	12
58	An Integrated Deep Learning and Belief Rule Base Intelligent System to Predict Survival of COVID-19 Patient under Uncertainty. Cognitive Computation, 2022, 14, 660-676.	3.6	12
59	Heterogeneous wireless sensor networks using CoAP and SMS to predict natural disasters. , 2017, , .		11
60	An integrated approach of Belief Rule Base and Convolutional Neural Network to monitor air quality in Shanghai. Expert Systems With Applications, 2022, 206, 117905.	4.4	11
61	WallDroid: Cloud Assisted Virtualized Application Specific Firewalls for the Android OS. , 2012, , .		10
62	PERCCOM: A Master Program in Pervasive Computing and COMmunications for Sustainable Development. , 2016, , .		10
63	Human Gender Detection from Facial Images Using Convolution Neural Network. Communications in Computer and Information Science, 2021, , 188-203.	0.4	10
64	Glaucoma Detection Using Inception Convolutional Neural Network V3. Communications in Computer and Information Science, 2021, , 17-28.	0.4	10
65	A Weighted Average Ensemble Technique to Predict Heart Disease. Lecture Notes in Networks and Systems, 2022, , 17-29.	0.5	10
66	Bandwidth Efficient Mobility Management for Heterogeneous Wireless Networks. , 2010, , .		9
67	Indoor Taxi-Cab: Real-Time Indoor Positioning and Location-Based Services with Ekahau and Android OS. , 2014, , .		9
68	Optimal dynamic routing protocols for agro-sensor communication in MANETs. , 2017, , .		9
69	A New Crossover Technique to Improve Genetic Algorithm and Its Application to TSP. , 2019, , .		9
70	Mobility management for highly mobile users and vehicular networks in heterogeneous environments. , 2008, , .		8
71	Web-based adaptive application mobility. , 2012, , .		8
72	A CNN Based Model for Venomous and Non-venomous Snake Classification. Communications in Computer and Information Science, 2021, , 216-231.	0.4	8

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73	A Deep Transfer Learning Approach to Diagnose Covid-19 using X-ray Images. , 2020, , .		8
74	Challenges and opportunities in content distribution networks: A case study. , 2012, , .		7
75	A Congestion Avoidance Mechanism for WebRTC Interactive Video Sessions in LTE Networks. Wireless Personal Communications, 2014, 77, 2417-2443.	1.8	7
76	A Belief Rule Base Expert System for staging Non-Small Cell Lung Cancer under Uncertainty. , 2019, , .		7
77	Early Detection of Parkinson's Disease from Micrographic Static Hand Drawings. Lecture Notes in Computer Science, 2021, , 433-447.	1.0	7
78	Port-based Multihomed Mobile IPv6 for Heterogeneous Networks. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	6
79	A cross-platform application framework for HTML5-based e-services. , 2014, , .		6
80	Performance Analysis of Anomaly Based Network Intrusion Detection Systems. , 2018, , .		6
81	Human Age Estimation Using Deep Learning from Gait Data. Communications in Computer and Information Science, 2021, , 281-294.	0.4	6
82	Hand-Drawn Emoji Recognition using Convolutional Neural Network. , 2020, , .		6
83	Analysis and measurement of session setup delay and jitter in VoWLAN using composite metrics. , 2008, , .		5
84	Mobile VoIP user experience in LTE. , 2011, , .		5
85	Mobile computing application for industrial field service engineering: A case for ABB service engineers. , 2013, , .		5
86	A Case Study of Application Development for Mobile and Location-Based Services. , 2013, , .		5
87	Mobile e-Services. International Journal of E-Services and Mobile Applications, 2015, 7, 1-24.	0.6	5
88	A Belief Rule Base Approach to Support Comparison of Digital Speech Signal Features for Parkinson's Disease Diagnosis. Lecture Notes in Computer Science, 2021, , 388-400.	1.0	5
89	A Learning Mechanism for BRBES Using Enhanced Belief Rule-Based Adaptive Differential Evolution. , 2020, , .		5
90	A BRBES to Support Diagnosis of COVID-19 Using Clinical and CT Scan Data. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 483-496.	0.5	5

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91	A service level model and Internet mobility monitor. Telecommunication Systems, 2008, 37, 49-70.	1.6	4
92	Disaster-resilient mobile network architecture. , 2014, , .		4
93	A web based belief rule based expert system for assessing flood risk. , 2017, , .		4
94	Security and Privacy for Smart, Connected, and Mobile IoT Devices and Platforms. Security and Communication Networks, 2018, 2018, 1-2.	1.0	4
95	Challenges and Opportunities of Using Big Data for Assessing Flood Risks. , 2018, , 31-42.		4
96	User Performance in a 5G Multi-connectivity Ultra-Dense Network City Scenario. , 2020, , .		4
97	Nomadic mobility between smart homes. , 2012, , .		3
98	Supporting user mobility with peer-to-peer-based application mobility in heterogeneous networks. , 2013, , .		3
99	Enhanced Mobility Support for Roaming Users: Extending the IEEE 802.21 Information Service. Lecture Notes in Computer Science, 2010, , 52-63.	1.0	3
100	Blockchain Mobility Solution for Charging Transactions of Electrical Vehicles. , 2020, , .		3
101	Creating a Traceable Product Story in Manufacturing Supply Chains Using IPFS. , 2020, , .		3
102	Automated Acute Lymphocytic Leukemia (ALL) Detection Using Microscopic Images: AnÂEfficient CAD Approach. Lecture Notes in Networks and Systems, 2022, , 363-376.	0.5	3
103	A new MIP-SIP interworking scheme. , 2008, , .		2
104	A uniform AAA handling scheme for heterogeneous networking environments. , 2009, , .		2
105	Network DDoS Layer 3/4/7 Mitigation via Dynamic Web Redirection. Communications in Computer and Information Science, 2016, , 111-125.	0.4	2
106	Secure Computation on 4G/5G Enabled Internet-of-Things. Wireless Communications and Mobile Computing, 2019, 2019, 1-1.	0.8	2
107	D3mciAD: Data-Driven Diagnosis of Mild Cognitive Impairment Utilizing Syntactic Images Generation and Neural Nets. Lecture Notes in Computer Science, 2021, , 366-377.	1.0	2
108	Inference and Multi-level Learning in a Belief Rule-Based Expert System to Predict Flooding. , 2020, , .		2

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109	Sustainable Mobile Computing and Communications. Mobile Information Systems, 2017, 2017, 1-2.	0.4	1
110	A Belief Rule-Based Expert System to Assess Multiple Human Reaction in the Context of Facebook Posts under Uncertainty. , 2021, , .		1
111	An Interactive Computer System with Gesture-Based Mouse and Keyboard. Advances in Intelligent Systems and Computing, 2021, , 894-906.	0.5	1
112	DNS DDoS Mitigation, via DNS Timer Design Changes. Communications in Computer and Information Science, 2017, , 43-55.	0.4	1
113	On-Move 2013. , 2013, , .		0
114	Welcome message from the ON-MOVE chairs. , 2013, , .		0
115	Message from the demonstrations chair. , 2014, , .		0
116	Message from the Demonstrations chair. , 2014, , .		0
117	Special Issue on Mobility and Intelligence Management Technologies for Wireless and Mobile Networks. Wireless Personal Communications, 2014, 76, 657-660.	1.8	0
118	A novel framework of an expert system by integrating capability approach and BRB to evaluate e-Government Services. , 2015, , .		0
119	On-Move 2015. , 2015, , .		0
120	Visualization and cell data analysis tool based on XML log files. , 2015, , .		0
121	Stronger authentication for password credential Internet Services. , 2017, , .		0
122	Critical infrastructure network DDoS defense, via cognitive learning. , 2017, , .		0
123	Editorial: IEEE Transactions on Sustainable Computing, Special Issue on Cryptography and Data Security in Sustainable Computing (Part 1). IEEE Transactions on Sustainable Computing, 2020, 5, 160-160.	2.2	0
124	Application of Online Transportation Mode Recognition in Games. Applied Sciences (Switzerland), 2021, 11, 8901.	1.3	0
125	Mobile E-Services. , 2016, , 690-716.		0
126	Editorial: IEEE Transactions on Sustainable Computing, Special Issue on Cryptography and Data Security in Sustainable Computing (Part 2). IEEE Transactions on Sustainable Computing, 2020, 5, 235-235.	2.2	0