Kenneth N Brown

List of Publications by Year
in descending order

92	996	623734	610901
papers	citations	14 h-index	24 g-index

94	94	94	1023
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Blockchain-Empowered Digital Twins Collaboration: Smart Transportation Use Case. Machines, 2021, 9, 193.	2.2	65
2	Cognitive radio for disaster response networks: survey, potential, and challenges. IEEE Wireless Communications, 2014, 21, 70-80.	9.0	61
3	Scheduling with uncertain durations: Modeling -robust scheduling with constraints. Computers and Operations Research, 2009, 36, 2348-2356.	4.0	51
4	A Dynamic Model for Fire Emergency Evacuation Based on Wireless Sensor Networks. , 2009, , .		42
5	ER-MAC: A Hybrid MAC Protocol for Emergency Response Wireless Sensor Networks. , 2010, , .		39
6	A fault-tolerant relay placement algorithm for ensuring k vertex-disjoint shortest paths in wireless sensor networks. Ad Hoc Networks, 2014, 23, 145-162.	5.5	37
7	Blockchain-Based Digital Twins Collaboration for Smart Pandemic Alerting: Decentralized COVID-19 Pandemic Alerting Use Case. Computational Intelligence and Neuroscience, 2022, 2022, 1-14.	1.7	37
8	An efficient MIP model for the capacitated lot-sizing and scheduling problem with sequence-dependent setups. International Journal of Production Economics, 2009, 118, 282-291.	8.9	35
9	Analysis of smartphone user mobility traces for opportunistic data collection in wireless sensor networks. Pervasive and Mobile Computing, 2013, 9, 881-891.	3.3	30
10	Design and analysis of RPL objective functions for multi-gateway ad-hoc low-power and lossy networks. Ad Hoc Networks, 2017, 65, 78-90.	5.5	29
11	Real-Time Pedestrian Evacuation Planning during Emergency. , 2011, , .		25
12	Planning the deployment of multiple sinks and relays in wireless sensor networks. Journal of Heuristics, 2015, 21, 197-232.	1.4	25
13	Minimizing the Driving Distance in Ride Sharing Systems. , 2014, , .		23
14	Digital Twins Collaboration for Automatic Erratic Operational Data Detection in Industry 4.0. Applied Sciences (Switzerland), 2021, 11, 3186.	2.5	23
15	Human activity recognition for emergency first responders via body-worn inertial sensors. , 2017, , .		21
16	Semi-online task assignment policies for workload consolidation in cloud computing systems. Future Generation Computer Systems, 2018, 82, 89-103.	7.5	20
17	Motion Sensors-Based Machine Learning Approach for the Identification of Anterior Cruciate Ligament Gait Patterns in On-the-Field Activities in Rugby Players. Sensors, 2020, 20, 3029.	3.8	19
18	RPL-based routing protocols for multi-sink wireless sensor networks. , 2015, , .		18

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19	A hybrid MAC protocol for emergency response wireless sensor networks. Ad Hoc Networks, 2014, 20, 77-95.	5.5	17
20	Uncertainty and Change. Foundations of Artificial Intelligence, 2006, , 731-760.	0.9	16
21	Experimental evaluation of TCP performance over 10Gb/s passive optical networks (XG-PON). , 2014, , .		16
22	Multi-objective hierarchical algorithms for restoring Wireless Sensor Network connectivity in known environments. Ad Hoc Networks, 2015, 33, 190-208.	5.5	16
23	A Constraint Programming Approach for Solving a Queueing Design and Control Problem. INFORMS Journal on Computing, 2009, 21, 549-561.	1.7	15
24	Refining the GIANT dynamic bandwidth allocation mechanism for XG-PON. , 2015, , .		15
25	Fault-Tolerant Relay Deployment Based on Length-Constrained Connectivity and Rerouting Centrality in Wireless Sensor Networks. Lecture Notes in Computer Science, 2012, , 115-130.	1.3	15
26	Branching Constraint Satisfaction Problems and Markov Decision Problems Compared. Annals of Operations Research, 2003, 118, 85-100.	4.1	13
27	Fast optimised ridesharing: Objectives, reformulations and driver flexibility. Expert Systems With Applications, 2020, 141, 112914.	7.6	13
28	Wireless LAN load balancing with genetic algorithms. Knowledge-Based Systems, 2009, 22, 529-534.	7.1	12
29	A probabilistic approach to user mobility prediction for wireless services. , 2016, , .		12
30	Gaussian Process models for ubiquitous user comfort preference sampling; global priors, active sampling and outlier rejection. Pervasive and Mobile Computing, 2017, 39, 135-158.	3.3	12
31	Learning market prices in real-time supply chain management. Computers and Operations Research, 2008, 35, 3465-3478.	4.0	10
32	Fault-tolerant relay deployment for k node-disjoint paths in wireless sensor networks. , 2011, , .		10
33	Data Pre-Forwarding for Opportunistic Data Collection in Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2014, 11, 1-33.	3.6	10
34	Autonomous Unmanned Aerial Vehicle for Search and Rescue Using Software Defined Radio. , 2019, , .		10
35	Federated Adaptive Asynchronous Clustering Algorithm for Wireless Mesh Networks. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	10
36	Exploiting Rush Hours for Energy-Efficient Contact Probing in Opportunistic Data Collection. , 2011, , .		9

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37	Optimised QoS-Aware DBA Mechanisms in XG-PON for Upstream Traffic in LTE Backhaul. , 2016, , .		9
38	Managing restaurant tables using constraints. Knowledge-Based Systems, 2007, 20, 160-169.	7.1	8
39	Design, implementation, and evaluation of an XG-PON module for the ns-3 network simulator. Simulation, 2017, 93, 409-426.	1.8	7
40	Sensor and feature selection for an emergency first responders activity recognition system. , 2017, , .		7
41	Wireless LAN Load-Balancing with Genetic Algorithms. , 2009, , 3-16.		7
42	Reordering all agents in asynchronous backtracking for distributed constraint satisfaction problems. Artificial Intelligence, 2020, 278, 103169.	5.8	6
43	Using Domain Knowledge for Interpretable and Competitive Multi-Class Human Activity Recognition. Sensors, 2020, 20, 1208.	3.8	6
44	Value ordering for quantified CSPs. Constraints, 2009, 14, 16-37.	0.7	5
45	Learning Occupancy in Single Person Offices with Mixtures of Multi-lag Markov Chains. , 2013, , .		5
46	Using opportunistic caching to improve the efficiency of handover in LTE with a PON access network backhaul. , 2014, , .		5
47	Realtime Online Solving of Quantified CSPs. Lecture Notes in Computer Science, 2009, , 771-786.	1.3	5
48	Maximising Access to a Spectrum Commons using Interference Temperature Constraints. , 2007, , .		4
49	Emergency response MAC protocol (ER-MAC) for wireless sensor networks. , 2010, , .		4
50	Data pre-forwarding for opportunistic data collection in wireless sensor networks. , 2012, , .		4
51	Preference Elicitation and Reasoning While Smart Shifting of Home Appliances. Energy Procedia, 2015, 83, 389-398.	1.8	4
52	A constraint programming approach to the additional relay placement problem in wireless sensor networks. Constraints, 2015, 20, 433-451.	0.7	4
53	Evaluation of available bandwidth as a routing metric for delay-sensitive IEEE 802.15.4-based ad-hoc networks. Ad Hoc Networks, 2016, 37, 526-542.	5.5	4
54	Asynchronous Distributed Clustering Algorithm for Wireless Sensor Networks. , 2019, , .		4

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55	Comparing Person-Specific and Independent Models on Subject-Dependent and Independent Human Activity Recognition Performance. Sensors, 2020, 20, 3647.	3.8	4
56	The Impact of Wireless Communication on Distributed Constraint Satisfaction. Lecture Notes in Computer Science, 2014, , 738-754.	1.3	4
57	Robust Constraint Solving Using Multiple Heuristics. Lecture Notes in Computer Science, 2005, , 871-871.	1.3	4
58	Performance Based Maintenance Scheduling for Building Service Components. IFIP Advances in Information and Communication Technology, 2009, , 487-494.	0.7	4
59	Using relaxations to improve search in distributed constraint optimisation. Artificial Intelligence Review, 2007, 28, 35-50.	15.7	3
60	A Constraint Programming Approach to the Additional Relay Placement Problem in Wireless Sensor Networks. , 2013, , .		3
61	An online approach for wireless network repair in partially-known environments. Ad Hoc Networks, 2016, 45, 47-64.	5.5	3
62	A cognitive radio-based fully blind multihop rendezvous protocol for unknown environments. Ad Hoc Networks, 2020, 107, 102261.	5.5	3
63	Design and Evaluation of a Constraint-Based Energy Saving and Scheduling Recommender System. Lecture Notes in Computer Science, 2015, , 687-703.	1.3	3
64	Problem Decomposition for Evacuation Simulation Using Network Flow. , 2012, , .		2
65	Restoring Wireless Sensor Network Connectivity in Damaged Environments. Procedia Computer Science, 2012, 10, 1134-1139.	2.0	2
66	Autonomous discovery and repair of damage in Wireless Sensor Networks. , 2013, , .		2
67	An Efficient Dispatch and Decision-Making Model for Taxi-Booking Service. , 2015, , .		2
68	Contact Probing Mechanisms for Opportunistic Sensor Data Collection. Computer Journal, 2015, 58, 1792-1810.	2.4	2
69	Experimental evaluation of a software defined radio-based prototype for a disaster response cellular network. , 2015, , .		2
70	Maximising the Number of Participants in a Ride-Sharing Scheme: MIP Versus CP Formulations. , 2015, , .		2
71	Hidden terminal management for uplink traffic in rate-controlled WiFi networks. , 2016, , .		2
72	Vehicle In-Cabin Contactless WiFi Human Sensing. , 2021, , .		2

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73	Global Constraints in Distributed CSP: Concurrent GAC and Explanations in ABT. Lecture Notes in Computer Science, 2014, , 721-737.	1.3	2
74	Intelligent Hybrid Control Model for Lighting Systems Using Constraint-Based Optimisation. Advances in Intelligent and Soft Computing, 2010, , 249-259.	0.2	2
75	A Shared Opportunistic Infrastructure for Long-Lived Wireless Sensor Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 330-337.	0.3	2
76	Snapshot Centrality Indices in Dynamic FIFO Networks. Mathematical Modelling and Algorithms, 2011, 10, 371-391.	0.5	1
77	Cooperative code-sharing for UMTS femtocells. , 2013, , .		1
78	Capacity and contention-based joint routing and gateway selection for machine-type communications. Ad Hoc Networks, 2017, 62, 35-49.	5.5	1
79	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting. , 2018, , .		1
80	Simulation-Based Optimization Tool for Field Service Planning. , 2019, , .		1
81	A Distributed Optimization Method for the Geographically Distributed Data Centres Problem. Lecture Notes in Computer Science, 2017, , 147-166.	1.3	1
82	Subject-dependent and -independent human activity recognition with person-specific and -independent models. , 2019, , .		1
83	Data Analytics and Optimisation for Assessing aÂRide Sharing System. Lecture Notes in Computer Science, 2015, , 1-12.	1.3	1
84	A General Framework for Reordering Agents Asynchronously in Distributed CSP. Lecture Notes in Computer Science, 2015, , 463-479.	1.3	1
85	Cognitive Radio Policy-Based Adaptive Blind Rendezvous Protocols for Disaster Response. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 88-99.	0.3	1
86	On the Impact of Introducing Advanced Devices into a Cognitive Radio Network. , 2009, , .		0
87	Demonstration of robotic repair for wireless networks. , 2015, , .		0
88	Modelling revenue generation in a dynamically priced mobile telephony service. Telecommunication Systems, 2016, 62, 711-734.	2.5	0
89	RCBurst: A mechanism to mitigate the impact of hidden terminals in home WLANs. , 2017, , .		0
90	Advanced Energy Saving Mechanism for Multi-Radio Multi-Channel Wireless Mesh Networks. , 2018, , .		0

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91	Assigning and Scheduling Service Visits in a Mixed Urban/Rural Setting. International Journal on Artificial Intelligence Tools, 2020, 29, 2060007.	1.0	0
92	Monitoring Emergency First Respondersâ€™ Activities via Gradient Boosting and Inertial Sensor Data. Lecture Notes in Computer Science, 2019, , 691-694.	1.3	0