

Erol Gelenbe

List of Publications by Year in descending order

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383
papers

13,418
citations

19657

61
h-index

32842

100
g-index

402
all docs

402
docs citations

402
times ranked

4146
citing authors

#	ARTICLE	IF	CITATIONS
1	The IoTAC Software Security-by-Design Platform: Concept, Challenges, and Preliminary Overview. , 2022, , .		2
2	SDK4ED: One-click platform for Energy-aware, Maintainable and Dependable Applications. , 2022, , .		1
3	Botnet Attack Detection with Incremental Online Learning. Communications in Computer and Information Science, 2022, , 51-60.	0.5	3
4	ACCURATE, ENERGY-EFFICIENT CLASSIFICATION WITH SPIKING RANDOM NEURAL NETWORK. Probability in the Engineering and Informational Sciences, 2021, 35, 51-61.	0.8	3
5	Random Neural Network for Lightweight Attack Detection in the IoT. Lecture Notes in Computer Science, 2021, , 79-91.	1.3	5
6	Investigating the Interaction between Energy Consumption, Quality of Service, Reliability, Security, and Maintainability of Computer Systems and Networks. SN Computer Science, 2021, 2, 23.	3.6	10
7	The Random Neural Network as a Bonding Model for Software Vulnerability Prediction. Lecture Notes in Computer Science, 2021, , 102-116.	1.3	4
8	Software Defined Network Dynamics via Diffusions. Lecture Notes in Computer Science, 2021, , 29-47.	1.3	1
9	Efficient Feature Selection for Static Analysis Vulnerability Prediction. Sensors, 2021, 21, 1133.	3.8	15
10	Time-Dependent Performance of a Multi-Hop Software Defined Network. Applied Sciences (Switzerland), 2021, 11, 2469.	2.5	11
11	Smart SDN Management of Fog Services to Optimize QoS and Energy. Sensors, 2021, 21, 3105.	3.8	11
12	Developing an infrastructure for secure patient summary exchange in the EU context: Lessons learned from the KONFIDO project. Health Informatics Journal, 2021, 27, 146045822110214.	2.1	4
13	A hierarchical model for quantifying software security based on static analysis alerts and software metrics. Software Quality Journal, 2021, 29, 431-507.	2.2	10
14	Reinforcement Learning and Energy-Aware Routing. , 2021, , .		0
15	Minimizing Energy and Computation in Long-Running Software. Applied Sciences (Switzerland), 2021, 11, 1169.	2.5	3
16	Randomization of Data Generation Times Improves Performance of Predictive IoT Networks. , 2021, , .		8
17	Diffusion Analysis Improves Scalability of IoT Networks to Mitigate the Massive Access Problem. , 2021, , .		8
18	MIRAI Botnet Attack Detection with Auto-Associative Dense Random Neural Network. , 2021, , .		15

#	ARTICLE	IF	CITATIONS
19	The Random Neural Network with Deep Learning Clusters in Smart Search. Neurocomputing, 2020, 396, 394-405.	5.9	11
20	Deep Learning Clusters in the Cognitive Packet Network. Neurocomputing, 2020, 396, 406-428.	5.9	6
21	Auction-Based Data Transaction in Mobile Networks: Data Allocation Design and Performance Analysis. IEEE Transactions on Mobile Computing, 2020, 19, 1040-1055.	5.8	13
22	Introduction to the Special Issue on the French-Polish Collaboration in Mathematical Models of Computer Systems, Networks and Bioinformatics. SN Computer Science, 2020, 1, 1.	3.6	0
23	Transient Behaviour of a Network Router. , 2020, , .		8
24	IoT Network Attack Detection and Mitigation. , 2020, , .		14
25	Self-Aware Networks That Optimize Security, QoS, and Energy. Proceedings of the IEEE, 2020, 108, 1150-1167.	21.3	37
26	Smart SDN Management of Fog Services. , 2020, , .		7
27	Sharing Energy for Optimal Edge Performance. Lecture Notes in Computer Science, 2020, , 24-36.	1.3	2
28	Optimal Fog Services Placement in SDN IoT Network Using Random Neural Networks and Cognitive Network Map. Lecture Notes in Computer Science, 2020, , 78-89.	1.3	5
29	Optimum Checkpoints for Time and Energy. , 2020, , .		4
30	Neural network architectures for the detection of SYN flood attacks in IoT systems. , 2020, , .		20
31	Incentive mechanism for collective coordination in an urban intelligent transportation system using G-networks. , 2020, , .		0
32	Product-Form Solution for Cascade Networks With Intermittent Energy. IEEE Systems Journal, 2019, 13, 918-927.	4.6	20
33	A Survey of Algorithms and Systems for Evacuating People in Confined Spaces. Electronics (Switzerland), 2019, 8, 711.	3.1	24
34	Optimum checkpoints for programs with loops. Simulation Modelling Practice and Theory, 2019, 97, 101951.	3.8	18
35	Supply Chains for Perishable Goods and G-networks. , 2019, , .		1
36	Double Auction Mechanism Design for Video Caching in Heterogeneous Ultra-Dense Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1669-1683.	9.2	29

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37	Performance Optimization With Energy Packets. IEEE Systems Journal, 2019, 13, 3770-3780.	4.6	22
38	The European cross-border health data exchange roadmap: Case study in the Italian setting. Journal of Biomedical Informatics, 2019, 94, 103183.	4.3	31
39	Improve cybersecurity of C-ITS Road Side Infrastructure Installations: the SerIoT - Secure and Safe IoT approach. , 2019, , .		5
40	Optimum Interval for Application-level Checkpoints. , 2019, , .		7
41	Non-negative Autoencoder with Simplified Random Neural Network. , 2019, , .		3
42	A Manifesto for Future Generation Cloud Computing. ACM Computing Surveys, 2019, 51, 1-38.	23.0	198
43	Peer Prediction-Based Trustworthiness Evaluation and Trustworthy Service Rating in Social Networks. IEEE Transactions on Information Forensics and Security, 2019, 14, 1582-1594.	6.9	17
44	Secure Cross-Border Exchange of Health Related Data: The KONFIDO Approach. Lecture Notes in Computer Science, 2019, , 318-327.	1.3	2
45	Adaptive Dispatching of Tasks in the Cloud. IEEE Transactions on Cloud Computing, 2018, 6, 33-45.	4.4	90
46	The Random Neural Network in a neurocomputing application for Web search. Neurocomputing, 2018, 280, 123-134.	5.9	9
47	Deep Learning with Dense Random Neural Network for Detecting Attacks against IoT-connected Home Environments. Procedia Computer Science, 2018, 134, 458-463.	2.0	83
48	Security for Internet of Things: The SerIoT Project. , 2018, , .		18
49	Networked Data Transaction in Mobile Networks: A Prediction-based Approach Using Auction. , 2018, , .		3
50	A Reinforcement Learning Approach to Adaptive Forwarding in Named Data Networking. Communications in Computer and Information Science, 2018, , 211-219.	0.5	3
51	Comprehensive user requirements engineering methodology for secure and interoperable health data exchange. BMC Medical Informatics and Decision Making, 2018, 18, 85.	3.0	27
52	An OpenNCP-based Solution for Secure eHealth Data Exchange. Journal of Network and Computer Applications, 2018, 116, 65-85.	9.1	33
53	Research and Innovation Action for the Security of the Internet of Things: The SerIoT Project. Communications in Computer and Information Science, 2018, , 101-118.	0.5	17
54	Static Analysis-Based Approaches for Secure Software Development. Communications in Computer and Information Science, 2018, , 142-157.	0.5	29

#	ARTICLE	IF	CITATIONS
55	Energy Life-Time of Wireless Nodes with Network Attacks and Mitigation. , 2018, , .		18
56	Deep Learning with Dense Random Neural Networks for Detecting Attacks Against IoT-Connected Home Environments. Communications in Computer and Information Science, 2018, , 79-89.	0.5	37
57	Machine Learning to Predict Toxicity of Compounds. Lecture Notes in Computer Science, 2018, , 335-345.	1.3	8
58	Deep Learning with Random Neural Networks. Lecture Notes in Networks and Systems, 2018, , 450-462.	0.7	5
59	The Deep Learning Random Neural Network with a Management Cluster. Smart Innovation, Systems and Technologies, 2018, , 185-195.	0.6	6
60	Deep Learning with Dense Random Neural Networks. Advances in Intelligent Systems and Computing, 2018, , 3-18.	0.6	15
61	KONFIDO: An OpenNCP-Based Secure eHealth Data Exchange System. Communications in Computer and Information Science, 2018, , 11-27.	0.5	15
62	An Energy Packet Network model for mobile networks with energy harvesting. Nonlinear Theory and Its Applications IEICE, 2018, 9, 322-336.	0.6	26
63	Multi-layer neural networks for quality of service oriented server-state classification in cloud servers. , 2017, , .		10
64	Contract Design for Traffic Offloading and Resource Allocation in Heterogeneous Ultra-Dense Networks. IEEE Journal on Selected Areas in Communications, 2017, 35, 2457-2467.	14.0	112
65	Single-cell based random neural network for deep learning. , 2017, , .		16
66	Intelligent search with deep learning clusters. , 2017, , .		7
67	Data Transaction Modeling in Mobile Networks: Contract Mechanism and Performance Analysis. , 2017, , .		12
68	G-Networks with Adders. Future Internet, 2017, 9, 34.	3.8	21
69	Self-aware Networks: The Cognitive Packet Network and Its Performance. , 2017, , 659-668.		2
70	Self-aware Computing Systems: Open Challenges and Future Research Directions. , 2017, , 709-722.		5
71	Adaptive workload distribution for local and remote Clouds. , 2016, , .		22
72	A Diffusion Model for Energy Harvesting Sensor Nodes. , 2016, , .		17

#	ARTICLE	IF	CITATIONS
73	Optimizing Secure SDN-Enabled Inter-Data Centre Overlay Networks through Cognitive Routing. , 2016, , .		31
74	Detection and mitigation of signaling storms in mobile networks. , 2016, , .		7
75	Energy Packet Networks With Energy Harvesting. IEEE Access, 2016, 4, 1321-1331.	4.2	70
76	Towards a cognitive routing engine for software defined networks. , 2016, , .		31
77	Deep learning with random neural networks. , 2016, , .		44
78	Packet transmission with K energy packets in an energy harvesting sensor. , 2016, , .		14
79	Energy packet model optimisation with approximate matrix inversion. , 2016, , .		5
80	Modeling and Analysis of RRC-Based Signalling Storms in 3G Networks. IEEE Transactions on Emerging Topics in Computing, 2016, 4, 113-127.	4.6	42
81	Big Data for Autonomic Intercontinental Overlays. IEEE Journal on Selected Areas in Communications, 2016, 34, 575-583.	14.0	53
82	Performance of an Autonomous Energy Harvesting Wireless Sensor. Lecture Notes in Electrical Engineering, 2016, , 35-43.	0.4	6
83	Real-Time Traffic over the Cognitive Packet Network. Communications in Computer and Information Science, 2016, , 3-21.	0.5	8
84	Markov and Non-Markov Probabilistic Models of Interacting Flows of Annihilating Particles. Communications in Computer and Information Science, 2016, , 281-291.	0.5	1
85	Countering Mobile Signaling Storms with Counters. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 199-209.	0.3	7
86	A Data Plane Approach for Detecting Control Plane Anomalies in Mobile Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 210-221.	0.3	3
87	Experiments with Smart Workload Allocation to Cloud Servers. , 2015, , .		9
88	Demonstrating Voice over an Autonomic Network. , 2015, , .		9
89	Energy loss through standby and leakage in energy harvesting wireless sensors. , 2015, , .		13
90	Emergency Navigation in Confined Spaces Using Dynamic Grouping. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
91	The impact of information technology on energy consumption and carbon emissions. Ubiquity, 2015, 2015, 1-15.	0.2	187
92	Synchronising Energy Harvesting and Data Packets in a Wireless Sensor. Energies, 2015, 8, 356-369.	3.1	51
93	Errors and Power When Communicating With Spins. IEEE Transactions on Emerging Topics in Computing, 2015, 3, 483-488.	4.6	11
94	Managing Crowds in Hazards With Dynamic Grouping. IEEE Access, 2015, 3, 1060-1070.	4.2	40
95	Cloud enabled emergency navigation using faster-than-real-time simulation. , 2015, , .		2
96	Central or distributed energy storage for processors with energy harvesting. , 2015, , .		24
97	Interconnected Wireless Sensors with Energy Harvesting. Lecture Notes in Computer Science, 2015, , 87-99.	1.3	37
98	Directional Navigation Improves Opportunistic Communication for Emergencies. Sensors, 2014, 14, 15387-15399.	3.8	7
99	Emergency Navigation without an Infrastructure. Sensors, 2014, 14, 15142-15162.	3.8	54
100	Cognitive packet network for QoS adaptation of asymmetric connections. , 2014, , .		3
101	Error and energy when communicating with spins. , 2014, , .		10
102	Identifying disease candidate genes via large-scale gene network analysis. International Journal of Data Mining and Bioinformatics, 2014, 10, 175.	0.1	19
103	Directional enhancements for emergency navigation. , 2014, , .		1
104	Storms in mobile networks. , 2014, , .		17
105	Capacity based evacuation with dynamic exit signs. , 2014, , .		12
106	Routing diverse evacuees with Cognitive Packets. , 2014, , .		15
107	Signalling storms in 3G mobile networks. , 2014, , .		31
108	Near-optimal emergency evacuation with rescuer allocation. , 2014, , .		2

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109	Top-\$k\$ Query Result Completeness Verification in Tiered Sensor Networks. IEEE Transactions on Information Forensics and Security, 2014, 9, 109-124.	6.9	41
110	Cognitive Packet Network for Bilateral Asymmetric Connections. IEEE Transactions on Industrial Informatics, 2014, 10, 1717-1725.	11.3	28
111	Search in the universe of big networks and data. IEEE Network, 2014, 28, 20-25.	6.9	16
112	A Software Defined Self-Aware Network: The Cognitive Packet Network. , 2014, , .		11
113	Search in Random Media with LÃ©vy Flights. , 2014, , 366-389.		2
114	Ubiquity symposium: The science in computer science: natural computation. Ubiquity, 2014, 2014, 1-9.	0.2	3
115	Mitigating for Signalling Attacks in UMTS Networks. , 2014, , 159-165.		6
116	An Implementation of Voice Over IP in the Cognitive Packet Network. , 2014, , 33-40.		5
117	A Cooperative Emergency Navigation Framework Using Mobile Cloud Computing. , 2014, , 41-48.		5
118	A sensor node with energy harvesting. Performance Evaluation Review, 2014, 42, 37-39.	0.6	39
119	A Parametric Study of CPNâ€™s Convergence Process. , 2014, , 13-20.		1
120	Scalable optimization in grid, cloud, and intelligent network computing â€“ foreword. Concurrency Computation Practice and Experience, 2013, 25, 1719-1721.	2.2	6
121	Graph and Analytical Models for Emergency Evacuation. Future Internet, 2013, 5, 46-55.	3.8	49
122	A Software Defined Self-Aware Network: The Cognitive Packet Network. , 2013, , .		1
123	Disruption tolerant communications for large scale emergency evacuation. , 2013, , .		15
124	Optimum power level for communications with interference. , 2013, , .		10
125	Cognitive Packets in Large Virtual Networks. , 2013, , 13-20.		0
126	Energy harvesting communication networks: Optimization and demonstration (the E-CROPS project). , 2013, , .		23

#	ARTICLE	IF	CITATIONS
127	Security for smart mobile networks: The NEMESYS approach. , 2013, , .		11
128	Top-k query result completeness verification in sensor networks. , 2013, , .		3
129	Spatial Computers for Emergency Support. Computer Journal, 2013, 56, 1399-1416.	2.4	16
130	Reactive and proactive congestion management for emergency building evacuation. , 2013, , .		10
131	Graph and analytical models for emergency evacuation. , 2013, , .		8
132	Time and energy in team-based search. Physical Review E, 2013, 87, .	2.1	37
133	Quality of information and energy provisioning (invited paper). , 2013, , .		3
134	Cognitive users with useful vacations. , 2013, , .		11
135	Security for smart mobile networks: The NEMESYS approach. , 2013, , .		11
136	Future Research on Cyber-Physical Emergency Management Systems. Future Internet, 2013, 5, 336-354.	3.8	90
137	Investigating the Tradeoffs between Power Consumption and Quality of Service in a Backbone Network. Future Internet, 2013, 5, 268-281.	3.8	9
138	Energy-QoS Trade-Offs in Mobile Service Selection. Future Internet, 2013, 5, 128-139.	3.8	38
139	Interoperating Infrastructures in Emergencies. , 2013, , 123-130.		4
140	Using Energy Criteria to Admit Flows in a Wired Network. , 2013, , 63-72.		7
141	Energy-Aware Admission Control for Wired Networks. Lecture Notes in Electrical Engineering, 2013, , 117-125.	0.4	4
142	Routing Emergency Evacuees with Cognitive Packet Networks. Lecture Notes in Electrical Engineering, 2013, , 295-303.	0.4	10
143	NEMESYS: Enhanced Network Security for Seamless Service Provisioning in the Smart Mobile Ecosystem. Lecture Notes in Electrical Engineering, 2013, , 369-378.	0.4	25
144	Mobile Network Anomaly Detection and Mitigation: The NEMESYS Approach. Lecture Notes in Electrical Engineering, 2013, , 429-438.	0.4	28

#	ARTICLE	IF	CITATIONS
145	Wireless networks in emergency management. , 2012, , .		9
146	Reconstruction of Large-Scale Gene Regulatory Networks Using Bayesian Model Averaging. IEEE Transactions on Nanobioscience, 2012, 11, 259-265.	3.3	19
147	Natural Computation. Computer Journal, 2012, 55, 848-851.	2.4	28
148	Energy packet networks. , 2012, , .		67
149	A Distributed Simulation Platform for Urban Security. , 2012, , .		3
150	Pervasive emergency support systems for building evacuation. , 2012, , .		5
151	Packet Delay and Energy Consumption in Non-homogeneous Networks. Computer Journal, 2012, 55, 950-964.	2.4	20
152	Resilience and security of opportunistic communications for emergency evacuation. , 2012, , .		9
153	Distributed networked emergency evacuation and rescue. , 2012, , .		4
154	Identifying Critical Sub-systems in the Simulation of Cyber-physical Systems. , 2012, , .		1
155	Emergency Cyber-Physical-Human Systems. , 2012, , .		23
156	Stochastic Gene Expression Modeling with Hill Function for Switch-Like Gene Responses. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 973-979.	3.0	33
157	Large scale simulation for human evacuation and rescue. Computers and Mathematics With Applications, 2012, 64, 3869-3880.	2.7	151
158	Choosing a Local or Remote Cloud. , 2012, , .		51
159	Power Savings in Packet Networks via Optimised Routing. Mobile Networks and Applications, 2012, 17, 152-159.	3.3	16
160	Gradient Optimisation for Network Power Consumption. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 125-134.	0.3	2
161	Energy Packet Networks: ICT Based Energy Allocation and Storage. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 186-195.	0.3	32
162	Routing and G-Networks to Optimise Energy and Quality of Service in Packet Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 163-173.	0.3	17

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163	Self-Aware Networks. , 2011, , .		8
164	Ubiquity symposium: Natural Computation. Ubiquity, 2011, 2011, .	0.2	9
165	Opportunistic Communications for Emergency Support Systems. Procedia Computer Science, 2011, 5, 39-47.	2.0	70
166	Adaptive packet prioritisation for large wireless sensor networks. Telecommunication Systems, 2011, 48, 125-150.	2.5	2
167	Cognitive and self-selective routing for sensor networks. Computational Management Science, 2011, 8, 237-258.	1.3	8
168	Packets travelling in non-homogeneous networks. , 2011, , .		1
169	Search in non-homogenous random environments?. Performance Evaluation Review, 2011, 39, 37-39.	0.6	6
170	Spatial Computers for Emergency Management. , 2011, , .		7
171	Autonomous navigation systems for emergency management in buildings. , 2011, , .		11
172	A Framework for Energy-Aware Routing in Packet Networks. Computer Journal, 2011, 54, 850-859.	2.4	105
173	Contrastive Learning in Random Neural Networks and its Relation to Gradient-Descent Learning. , 2011, , 511-517.		0
174	G-Network Modelling Based Abnormal Pathway Detection in Gene Regulatory Networks. , 2011, , 257-263.		7
175	Intelligent Navigation Systems for Building Evacuation. , 2011, , 339-345.		17
176	Reconstruction of Large-Scale Gene Regulatory Networks Using Bayesian Model Averaging. , 2011, , .		6
177	G-Networks Based Two Layer Stochastic Modeling of Gene Regulatory Networks with Post-Translational Processes. Interdisciplinary Bio Central, 2011, 3, 1-6.	0.1	10
178	A random neural network approach to an assets to tasks assignment problem. Proceedings of SPIE, 2010, , .	0.8	6
179	A distributed admission control mechanism for multi-criteria QoS. , 2010, , .		4
180	Adaptive Random Re-Routing for Differentiated QoS in Sensor Networks. Computer Journal, 2010, 53, 1052-1061.	2.4	21

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181	Distributed Building Evacuation Simulator for Smart Emergency Management. Computer Journal, 2010, 53, 1384-1400.	2.4	162
182	Fast Distributed Near-Optimum Assignment of Assets to Tasks. Computer Journal, 2010, 53, 1360-1369.	2.4	38
183	Demonstrating cognitive packet network resilience to worm attacks. , 2010, , .		18
184	Energy-Efficient Cloud Computing. Computer Journal, 2010, 53, 1045-1051.	2.4	521
185	Search in unknown random environments. Physical Review E, 2010, 82, 061112.	2.1	85
186	Performance Trade-Offs in a Network Coding Router. , 2010, , .		8
187	Stochastic gene expression modeling with hill function for switch-like gene responses. , 2010, , .		0
188	Fast message dissemination for emergency communications. , 2010, , .		12
189	Analysing Bidder Performance in Randomised and Fixed-Deadline Automated Auctions. Lecture Notes in Computer Science, 2010, , 42-51.	1.3	6
190	Analysis of an Automated Auction with Concurrent Multiple Unit Acceptance Capacity. Lecture Notes in Computer Science, 2010, , 382-396.	1.3	1
191	Stochastic Gene Expression Model Base Gene Regulatory Networks. Springer Proceedings in Physics, 2010, , 235-244.	0.2	3
192	Design of a Mobile Agent-Based Adaptive Communication Middleware for Federations of Critical Infrastructure Simulations. Lecture Notes in Computer Science, 2010, , 34-49.	1.3	11
193	A distributed decision support system for Building Evacuation. , 2009, , .		76
194	Steps toward self-aware networks. Communications of the ACM, 2009, 52, 66-75.	4.5	177
195	Analysis of single and networked auctions. ACM Transactions on Internet Technology, 2009, 9, 1-24.	4.4	44
196	Anomaly detection in gene expression via stochastic models of gene regulatory networks. BMC Genomics, 2009, 10, S26.	2.8	17
197	A Sustainable Model for Integrating Current Topics in Machine Learning Research Into the Undergraduate Curriculum. IEEE Transactions on Education, 2009, 52, 503-512.	2.4	18
198	Adaptive Packet Prioritisation for Wireless Sensor Networks. , 2009, , .		5

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199	Reducing power consumption in wired networks. , 2009, , .		31
200	Queueing performance under Network Coding. , 2009, , .		13
201	Information-aware traffic reduction for wireless sensor networks. , 2009, , .		18
202	An Approximate Model for Bidders in Sequential Automated Auctions. Lecture Notes in Computer Science, 2009, , 70-79.	1.3	10
203	Performance of Auctions and Sealed Bids. Lecture Notes in Computer Science, 2009, , 30-43.	1.3	8
204	Optimisation of Power Consumption in Wired Packet Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 717-729.	0.3	9
205	Approximate Analysis of a Round Robin Scheduling Scheme for Network Coding. Lecture Notes in Computer Science, 2009, , 212-217.	1.3	2
206	Adaptive prefetching algorithm in disk controllers. Performance Evaluation, 2008, 65, 382-395.	1.2	7
207	A multiple criteria, measurement-based admission control mechanism for Self-Aware Networks. , 2008, , .		2
208	A platform for pervasive combinatorial trading with opportunistic self-aggregation. , 2008, , .		4
209	Quality of information: An empirical approach. , 2008, , .		14
210	Robotic wireless network connection of civilians for emergency response operations. , 2008, , .		14
211	Adaptive QoS routing for significant events in wireless sensor networks. , 2008, , .		38
212	Random Neural Networks with Synchronized Interactions. Neural Computation, 2008, 20, 2308-2324.	2.2	132
213	Admission of QoS aware users in a smart network. ACM Transactions on Autonomous and Adaptive Systems, 2008, 3, 1-28.	0.8	32
214	Synchronized Interactions in Spiked Neuronal Networks. Computer Journal, 2008, 51, 723-730.	2.4	32
215	Discussant Contributions for the Computer Journal Lecture by Erol Gelenbe. Computer Journal, 2008, 51, 731-734.	2.4	2
216	Introduction. Stochastic networks: from theory to practice. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 2151-2152.	2.1	0

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217	Network of interacting synthetic molecules in steady state. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 2219-2228.	2.1	25
218	Information Quality aware sensor network services. , 2008, , .		6
219	Modelling Gene Regulatory Networks. Lecture Notes in Computer Science, 2008, , 19-32.	1.3	2
220	Emergency Response Simulation Using Wireless Sensor Networks. , 2008, , .		53
221	Hyperion Next-Generation Battlespace Information Services. Computer Journal, 2007, 50, 632-645.	2.4	17
222	A diffusion model for packet travel time in a random multihop medium. ACM Transactions on Sensor Networks, 2007, 3, 10.	3.6	46
223	Recursive Routing in the Cognitive Packet Network. , 2007, , .		12
224	Steady-state solution of probabilistic gene regulatory networks. Physical Review E, 2007, 76, 031903.	2.1	68
225	Detecting Denial of Service Attacks with Bayesian Classifiers and the Random Neural Network. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	37
226	Analytical Solution of Gene Regulatory Networks. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	4
227	Editorial: Introduction to the Special Issue. Computer Journal, 2007, 50, 630-631.	2.4	0
228	Oscillations in a Bio-Inspired Routing Algorithm. , 2007, , .		9
229	Admission of Packet Flows in a Self-Aware Network. , 2007, , .		5
230	Controlling Access to Preserve QoS in a Self-Aware Network. , 2007, , .		11
231	Travel Time and Energy in Wireless Networks with Duplicate Packets. , 2007, , .		0
232	Dealing with software viruses: A biological paradigm. Information Security Technical Report, 2007, 12, 242-250.	1.3	68
233	A self-aware approach to denial of service defence. Computer Networks, 2007, 51, 1299-1314.	5.1	137
234	A Framework for Autonomic Networked Auctions. , 2007, , .		5

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235	Modelling Large Scale Autonomous Systems. , 2006, , .		8
236	CAM04-1: Admission Control in Self Aware Networks. , 2006, , .		7
237	Genetic Algorithms for Route Discovery. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 1247-1254.	5.0	59
238	A survey of autonomic communications. ACM Transactions on Autonomous and Adaptive Systems, 2006, 1, 223-259.	0.8	521
239	A mathematical approach for mission planning and rehearsal. , 2006, , .		5
240	Fusing terrain and goals: agent control in urban environments. , 2006, 6242, 71.		7
241	Editorial: Building Adaptivity into Computer Networks. Computer Journal, 2006, 49, 136-136.	2.4	1
242	Towards autonomic networks. , 2006, , .		4
243	Analysis of Automated Auctions. Lecture Notes in Computer Science, 2006, , 1-12.	1.3	14
244	Function Approximation by Random Neural Networks with a Bounded Number of Layers. Advances in Computer Science and Engineering, 2006, , 35-58.	0.2	4
245	User Cooperation and Search in Intelligent Networks. Lecture Notes in Computer Science, 2006, , 41-56.	1.3	0
246	Simulating autonomous agents in augmented reality. Journal of Systems and Software, 2005, 74, 255-268.	4.5	93
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