

# Chuang Lin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

178  
papers

1,851  
citations

25  
h-index

34  
g-index

239  
ext. papers

2,297  
ext. citations

3.2  
avg, IF

4.96  
L-index

#	Paper	IF	Citations
178	A Convolution Component-Based Method with Attention Mechanism for Travel-Time Prediction. <i>Sensors</i> , <b>2019</b> , 19,	3.8	7
177	. <i>IEEE Transactions on Cloud Computing</i> , <b>2019</b> , 1-1	3.3	46
176	Two-level task scheduling with multi-objectives in geo-distributed and large-scale SaaS cloud. <i>World Wide Web</i> , <b>2019</b> , 22, 2291-2319	2.9	4
175	An LSTM-Based Method with Attention Mechanism for Travel Time Prediction. <i>Sensors</i> , <b>2019</b> , 19,	3.8	50
174	Short-Term Travel Time Prediction: A Spatiotemporal Deep Learning Approach. <i>International Journal of Information Technology and Decision Making</i> , <b>2019</b> , 18, 1087-1111	2.8	6
173	Multi-Objective Service Composition with QoS Dependencies. <i>IEEE Transactions on Cloud Computing</i> , <b>2019</b> , 7, 537-552	3.3	14
172	Performance Evaluation and Optimization of Hierarchical Routing in SDN Control Plane. <i>Chinese Journal of Electronics</i> , <b>2018</b> , 27, 342-350	0.9	4
171	Energy-Aware Computation Offloading of IoT Sensors in Cloudlet-Based Mobile Edge Computing. <i>Sensors</i> , <b>2018</b> , 18,	3.8	27
170	A Review on the Architecture of Software Defined Network. <i>Chinese Journal of Electronics</i> , <b>2018</b> , 27, 1111-1117	0.9	1
169	Travel Time Prediction by Providing Constraints on a Convolutional Neural Network. <i>IEEE Access</i> , <b>2018</b> , 6, 59336-59349	3.5	5
168	Trust evaluation model of cloud user based on behavior data. <i>International Journal of Distributed Sensor Networks</i> , <b>2018</b> , 14, 155014771877692	1.7	11
167	Energy Efficient Scheduling and Management for Large-Scale Services Computing Systems. <i>IEEE Transactions on Services Computing</i> , <b>2017</b> , 10, 217-230	4.8	18
166	Cost-efficient workload scheduling in Cloud Assisted Mobile Edge Computing <b>2017</b> ,		45
165	Cost-Efficient Resource Provisioning in Cloud Assisted Mobile Edge Computing <b>2017</b> ,		11
164	Trust Model of Wireless Sensor Networks and Its Application in Data Fusion. <i>Sensors</i> , <b>2017</b> , 17,	3.8	28
163	Relationship Privacy Leakage in Network Traffics <b>2016</b> ,		4
162	Joint study on VMs deployment, assignment and migration in geographically distributed data centers. <i>Frontiers of Computer Science</i> , <b>2016</b> , 10, 559-573	2.2	

161	Guest Editorial Special Issue on Cloud Computing for IoT. <i>IEEE Internet of Things Journal</i> , <b>2016</b> , 3, 254-256	0.7	3
160	A PetriNet-Based Approach for Supporting Traceability in Cyber-Physical Manufacturing Systems. <i>Sensors</i> , <b>2016</b> , 16,	3.8	23
159	Multi-objective evaluation and optimization on trustworthy computing. <i>Science China Information Sciences</i> , <b>2016</b> , 59, 1	3.4	1
158	Cost-Effective Request Scheduling for Greening Cloud Data Centers <b>2016</b> ,		3
157	A Partial Selection Methodology for Efficient QoS-Aware Service Composition. <i>IEEE Transactions on Services Computing</i> , <b>2015</b> , 8, 384-397	4.8	62
156	Modeling and Analysis of Availability in Multi-Tenant SaaS <b>2015</b> ,		1
155	VEGAS: Visual influEnce GrAph Summarization on Citation Networks. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2015</b> , 27, 3417-3431	4.2	31
154	An Effective Policy Relocation Scheme for VM Migration in Software-Defined Networks <b>2015</b> ,		3
153	Comprehensive understanding of TCP Incast problem <b>2015</b> ,		13
152	Energy Efficient Speed Scaling and Task Scheduling for Distributed Computing Systems. <i>Chinese Journal of Electronics</i> , <b>2015</b> , 24, 468-473	0.9	1
151	EcoPlan: energy-efficient downlink and uplink data transmission in mobile cloud computing. <i>Wireless Networks</i> , <b>2015</b> , 21, 453-466	2.5	5
150	Privacy Petri Net and Privacy Leak Software. <i>Journal of Computer Science and Technology</i> , <b>2015</b> , 30, 1318-1343	1.3	1
149	Security Analysis for Web Service Behaviors Based on Hierarchical Stochastic Game Model. <i>Chinese Journal of Electronics</i> , <b>2015</b> , 24, 449-454	0.9	
148	Relocation routing for energy balancing in mobile sensor networks. <i>Wireless Communications and Mobile Computing</i> , <b>2015</b> , 15, 1418-1432	1.9	1
147	Hierarchical caches in content-centric networks: modeling and analysis. <i>Frontiers of Computer Science</i> , <b>2015</b> , 9, 846-859	2.2	1
146	An online mechanism for dynamic instance allocation in reserved instance marketplace <b>2014</b> ,		4
145	HEIR: Heterogeneous interference recognition for wireless sensor networks <b>2014</b> ,		2
144	Managing performance and power consumption tradeoff for multiple heterogeneous servers in cloud computing. <i>Cluster Computing</i> , <b>2014</b> , 17, 943-955	2.1	29

143	Modeling and Analysis of Dependability Attributes for Services Computing Systems. <i>IEEE Transactions on Services Computing</i> , <b>2014</b> , 7, 599-613	4.8	11
142	Partial Selection: An Efficient Approach for QoS-Aware Web Service Composition <b>2014</b> ,		19
141	Ranking Web Services with Limited and Noisy Information <b>2014</b> ,		4
140	Cutting Your Cloud Computing Cost for Deadline-Constrained Batch Jobs <b>2014</b> ,		13
139	Energy Efficient Dynamic Service Selection for Large-Scale Web Service Systems <b>2014</b> ,		7
138	Greening Geo-distributed Data Centers by Joint Optimization of Request Routing and Virtual Machine Scheduling <b>2014</b> ,		30
137	Flow-Based Influence Graph Visual Summarization <b>2014</b> ,		5
136	Wireless channel model using stochastic high-level Petri nets for cross-layer performance analysis in orthogonal frequency-division multiplexing system. <i>IET Communications</i> , <b>2014</b> , 8, 2871-2880	1.3	4
135	Scalability of control planes for Software defined networks: Modeling and evaluation <b>2014</b> ,		43
134	Analysis of Backward Congestion Notification with Delay for Enhanced Ethernet Networks. <i>IEEE Transactions on Computers</i> , <b>2014</b> , 63, 2674-2684	2.5	7
133	Optimal power scheduling in 802.11n wireless networks for real-time services. <i>Wireless Communications and Mobile Computing</i> , <b>2014</b> , 14, 877-890	1.9	
132	Dimensioning the packet loss burstiness over wireless channels: a novel metric, its analysis and application. <i>Wireless Communications and Mobile Computing</i> , <b>2014</b> , 14, 1160-1175	1.9	4
131	Modeling and security analysis of enterprise network using attack-defense stochastic game Petri nets. <i>Security and Communication Networks</i> , <b>2013</b> , 6, 89-99	1.9	16
130	Attribute-Aware Data Aggregation Using Potential-Based Dynamic Routing in Wireless Sensor Networks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2013</b> , 24, 881-892	3.7	39
129	On applying stochastic network calculus. <i>Frontiers of Computer Science</i> , <b>2013</b> , 7, 924-942	2.2	
128	Reaction-diffusion modeling of malware propagation in mobile wireless sensor networks. <i>Science China Information Sciences</i> , <b>2013</b> , 56, 1-18	3.4	16
127	Modeling, Analysis and Optimization of Dependability-Aware Energy Efficiency in Services Computing Systems <b>2013</b> ,		8
126	Scalable network traffic visualization using compressed graphs <b>2013</b> ,		9

125	Ease the Queue Oscillation: Analysis and Enhancement of DCTCP <b>2013</b> ,		8
124	Improving Energy Efficiency in Web Services. <i>International Journal of Web Services Research</i> , <b>2013</b> , 10, 29-52	0.8	11
123	Survey on transport control in data center networks. <i>IEEE Network</i> , <b>2013</b> , 27, 22-26	11.4	27
122	TDMA scheduling with maximum throughput and fair rate allocation in wireless sensor networks <b>2013</b> ,		8
121	Modeling and understanding burst transmission algorithms for energy efficient ethernet <b>2013</b> ,		4
120	Agent-Based Green Web Service Selection and Dynamic Speed Scaling <b>2013</b> ,		9
119	Performance evaluation and dynamic optimization of speed scaling on web servers in cloud computing. <i>Tsinghua Science and Technology</i> , <b>2013</b> , 18, 298-307	3.4	9
118	Performance analysis of device-to-device communications with frequency reuse using Stochastic Petri Nets <b>2013</b> ,		4
117	Selecting a preferable access point with more available bandwidth <b>2013</b> ,		3
116	Stochastic game net and applications in security analysis for enterprise network. <i>International Journal of Information Security</i> , <b>2012</b> , 11, 41-52	2.8	28
115	ANOC: Anonymous Network-Coding-Based Communication with Efficient Cooperation. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2012</b> , 30, 1738-1745	14.2	9
114	Retransmission or redundancy: Transmission reliability study in wireless sensor networks. <i>Science China Information Sciences</i> , <b>2012</b> , 55, 737-746	3.4	3
113	Enforcing scalable and dynamic hierarchical access control in cloud computing <b>2012</b> ,		2
112	Sliding Mode Congestion Control for data center Ethernet networks <b>2012</b> ,		1
111	Energy and Delay Minimization in Cluster-Based Wireless Sensor Networks <b>2012</b> ,		2
110	Analysis of backward congestion notification with delay for enhanced ethernet networks <b>2012</b> ,		2
109	Dependability modeling and analysis for the virtual clusters <b>2011</b> ,		1
108	EBRP: Energy-Balanced Routing Protocol for Data Gathering in Wireless Sensor Networks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2011</b> , 22, 2108-2125	3.7	138

107	Modeling and Analysis of Dependability Attributes of Service Computing Systems <b>2011</b> ,		8
106	An Analytical Method to Predict Packet Losses over Bursty Wireless Channels. <i>IEEE Communications Letters</i> , <b>2011</b> , 15, 1338-1340	3.8	3
105	A-ADHOC: An Adaptive Real-time Distributed MAC Protocol for Vehicular Ad Hoc Networks. <i>Mobile Networks and Applications</i> , <b>2011</b> , 16, 576-585	2.9	15
104	Modeling and survivability analysis of service composition using Stochastic Petri Nets. <i>Journal of Supercomputing</i> , <b>2011</b> , 56, 79-105	2.5	16
103	Dependability Modeling and Analysis for the Virtual Data Center of Cloud Computing <b>2011</b> ,		29
102	How stochastic network calculus concepts help green the power grid <b>2011</b> ,		3
101	Stochastic Delay Bound for Heterogeneous Aggregation in Sensor Networks <b>2011</b> ,		1
100	Trust Based Access Control in Infrastructure-Centric Environment <b>2011</b> ,		7
99	QoS-Aware Service Composition for Workflow-Based Data-Intensive Applications <b>2011</b> ,		4
98	Modeling and understanding TCP incast in data center networks <b>2011</b> ,		45
97	Padding for orthogonality: Efficient subspace authentication for network coding <b>2011</b> ,		52
96	DPLWN: A Novel Model for Designing and Implementing Dynamic Business Processes and Process Changes <b>2010</b> ,		2
95	A NEW FAULT-TOLERANT BROADCAST ROUTING ALGORITHM ON MESH NETWORKS. <i>Journal of Interconnection Networks</i> , <b>2010</b> , 11, 175-187	0.4	3
94	Stochastic Delay Bound in Sink-Tree Networks <b>2010</b> ,		2
93	An Analytical Model to Study the Packet Loss Burstiness over Wireless Channels <b>2010</b> ,		3
92	Energy efficient cooperation in underwater sensor networks <b>2010</b> ,		5
91	Attribute-aware data aggregation using dynamic routing in wireless sensor networks <b>2010</b> ,		2
90	An Efficient Privacy-Preserving Publish-Subscribe Service Scheme for Cloud Computing <b>2010</b> ,		5

89	Evaluation of user behavior trust in cloud computing <b>2010</b> ,		31
88	A Dual-Threshold Power Saving Mechanism in WiMAX <b>2010</b> ,		3
87	UTM-CM: A Practical Control Mechanism Solution for UTM System <b>2010</b> ,		3
86	Frequency-Domain Packet Scheduling for 3GPP LTE Uplink <b>2010</b> ,		30
85	P-Coding: Secure Network Coding against Eavesdropping Attacks <b>2010</b> ,		48
84	Availability Analysis of Web-Server Clusters with QoS-Aware Load Balancing <b>2010</b> ,		3
83	An Extended Stochastic Loss Bound with Moment Generating Function <b>2010</b> ,		1
82	Enhancing tit-for-tat for incentive in BitTorrent networks. <i>Peer-to-Peer Networking and Applications</i> , <b>2010</b> , 3, 27-35	3.1	4
81	A secure multipath routing protocol in mobile ad hoc networks. <i>Concurrency Computation Practice and Experience</i> , <b>2010</b> , 22, 481-502	1.4	0
80	Providing key recovery capability for mobile communications. <i>Security and Communication Networks</i> , <b>2010</b> , 3, 207-216	1.9	
79	Survivability evaluation of distributed service using stochastic Petri net <b>2009</b> ,		2
78	A Fair Transaction Mechanism for P2P File-Sharing Applications <b>2009</b> ,		1
77	P2P Accelerated Mass Data Distribution over Booming Internet: Effectiveness and Bottlenecks <b>2009</b> ,		3
76	Optimization of Energy Efficient Transmission in Underwater Sensor Networks <b>2009</b> ,		33
75	Improving Multi-Core System Dependability with Asymmetrically Reliable Cores <b>2009</b> ,		3
74	Optimizing availability and QoS of heterogeneous distributed system based on residual lifetime in uncertain environment. <i>Journal of Supercomputing</i> , <b>2009</b> , 48, 243-263	2.5	1
73	An Improved Markov Model for IEEE 802.15.4 Slotted CSMA/CA Mechanism. <i>Journal of Computer Science and Technology</i> , <b>2009</b> , 24, 495-504	1.7	29
72	Efficient user authentication and key management for peer-to-peer live streaming systems. <i>Tsinghua Science and Technology</i> , <b>2009</b> , 14, 234-241	3.4	4

71	An Efficient Scheme for Secure Communication in Large-Scale Wireless Sensor Networks <b>2009</b> ,		1
70	A-ADHOC: An adaptive real-time distributed MAC protocol for Vehicular Ad Hoc Networks <b>2009</b> ,		9
69	Security Analysis of Enterprise Network Based on Stochastic Game Nets Model <b>2009</b> ,		16
68	Security Analysis for Online Banking System Using Hierarchical Stochastic Game Nets Model <b>2009</b> ,		11
67	Performance modeling and evaluation using Queuing Petri Nets in IMS <b>2009</b> ,		1
66	Game-Based Trust Establishment for Mobile Ad Hoc Networks <b>2009</b> ,		9
65	Performance, Fault-Tolerance and Scalability Analysis of Virtual Infrastructure Management System <b>2009</b> ,		14
64	A Novel and High-Quality Measurement Study of Commercial CDN-P2P Live Streaming <b>2009</b> ,		4
63	A Novel Cookie-Based DDoS Protection Scheme and its Performance Analysis <b>2009</b> ,		5
62	Model-Driven Dependability Analysis of Virtualization Systems <b>2009</b> ,		7
61	Insight into the P2P-VoD System: Performance Modeling and Analysis <b>2009</b> ,		14
60	Comprehensive Analysis of Performance, Fault-Tolerance and Scalability in Grid Resource Management System <b>2009</b> ,		4
59	Accelerating large-scale data distribution in booming internet: effectiveness, bottlenecks and practices. <i>IEEE Transactions on Consumer Electronics</i> , <b>2009</b> , 55, 518-526	4.8	7
58	Enabling on-demand internet video streaming services to multi-terminal users in large scale. <i>IEEE Transactions on Consumer Electronics</i> , <b>2009</b> , 55, 1988-1996	4.8	25
57	General gap-utilizing strategy for non-persistent traffic in wireless networks. <i>IEEE Communications Letters</i> , <b>2009</b> , 13, 740-742	3.8	0
56	A Study of Forward Error Correction Schemes for Reliable Transport in Underwater Sensor Networks <b>2008</b> ,		13
55	Improving TCP Throughput over HSDPA Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2008</b> , 7, 1993-1998	9.6	6
54	A loosely synchronized gossip-based algorithm for aggregate information computation <b>2008</b> ,		1



53	Enhancing Tit-for-Tat Strategy to Cope with Free-Riding in Unreliable P2P Networks <b>2008</b> ,	4
52	A Tree-Based Signature Scheme for VANETs <b>2008</b> ,	5
51	Alleviating Congestion Using Traffic-Aware Dynamic Routing in Wireless Sensor Networks <b>2008</b> ,	16
50	End-to-End Congestion Control for High Speed Networks Based on Population Ecology Models <b>2008</b> ,	1
49	VCNF: A Secure Video Conferencing System Based on P2P Technology <b>2008</b> ,	3
48	A Trust and Context Based Access Control Model for Distributed Systems <b>2008</b> ,	28
47	TrustStream: A Secure and Scalable Architecture for Large-Scale Internet Media Streaming. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2008</b> , 18, 1692-1702	6.4 11
46	Performance Analysis and Industrial Practice of Peer-Assisted Content Distribution Network for Large-Scale Live Video Streaming <b>2008</b> ,	12
45	Design and analysis of an ONOFF variable structure controller for AQM routers supporting TCP flows. <i>Science in China Series F: Information Sciences</i> , <b>2008</b> , 51, 1785-1803	
44	Replica location mechanism in data grid based on ED-Chord. <i>Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities</i> , <b>2008</b> , 3, 171-175	
43	A mutual authentication and privacy mechanism for WLAN security. <i>Wireless Communications and Mobile Computing</i> , <b>2008</b> , 8, 101-112	1.9 1
42	3D-wavelet based Secure and Scalable Media Streaming in a Centralcontrolled P2P Framework. <i>International Conference on Advanced Networking and Applications</i> , <b>2007</b> ,	2
41	Retransmission or Redundancy: Transmission Reliability in Wireless Sensor Networks <b>2007</b> ,	25
40	Performance analysis of a dependable scheduling strategy based on a fault-tolerant grid model. <i>Frontiers of Computer Science</i> , <b>2007</b> , 1, 329-337	
39	Qos Performance Analysis for Grid Services Dynamic Scheduling System <b>2007</b> ,	1
38	TNC-compatible NAC System implemented on Network Processor <b>2007</b> ,	2
37	A Simple Active Congestion Control in Wireless Sensor Network <b>2007</b> ,	2
36	Towards a Trustworthy and Controllable Peer-Server-Peer Media Streaming: An Analytical Study and An Industrial Perspective <b>2007</b> ,	7

35	Modeling and Performance Evaluation of Hierarchical Job Scheduling on the Grids <b>2007</b> ,		2
34	Design and analysis of IPTV digital copyright management security protocol <b>2007</b> ,		3
33	A Fast Multi-pattern Matching Algorithm for Deep Packet Inspection on a Network Processor. <i>Parallel Processing (ICPP), Proceedings of the International Symposium, 2007</i> ,		4
32	An Analytical Model for Evaluating IEEE 802.15.4 CSMA/CA Protocol in Low-Rate Wireless Application <b>2007</b> ,		43
31	Improving the Convergence and Stability of Congestion Control Algorithm <b>2007</b> ,		6
30	Research on Network Architecture with Trustworthiness and Controllability. <i>Journal of Computer Science and Technology, 2006, 21, 732-739</i>	1.7	12
29	QoS-aware Composite Service Selection in Grids <b>2006</b> ,		14
28	QoS-aware Scheduling Algorithm Based on Complete Matching of User Jobs and Grid Services <b>2006</b> ,		2
27	QRP07-3: Analyzing the Performance and Fairness of BitTorrent-like Networks Using a General Fluid Model. <i>IEEE Global Telecommunications Conference (GLOBECOM), 2006</i> ,		1
26	Grid Service Workflow Models and Their Equivalent Simplification Methods <b>2006</b> ,		1
25	Security authentication of 3G-WLAN interworking <b>2006</b> ,		3
24	Architecture of Trustworthy Networks <b>2006</b> ,		1
23	Security mechanisms Analysis of Wireless Sensor Networks specific Routing attacks <b>2006</b> ,		5
22	Designing a binary controller to enhance end-to-end congestion control. <i>IEEE Communications Letters, 2006, 10, 858-860</i>	3.8	0
21	Performability Evaluation of Resource Scheduling Algorithms for Computational Grids <b>2006</b> ,		1
20	Mobile police information system based on Web Services. <i>Tsinghua Science and Technology, 2006, 11, 1-7</i>	3.4	7
19	BulkTree: An overlay network architecture for live media streaming. <i>Journal of Zhejiang University: Science A, 2006, 7, 125-130</i>	2.1	1
18	TCC: a two-category classifier for AQM routers supporting TCP flows. <i>IEEE Communications Letters, 2005, 9, 471-473</i>	3.8	4

17	Modeling and inference of extended interval temporal logic for nondeterministic intervals. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , <b>2005</b> , 35, 682-696		6
16	Scalable parameter tuning for AVQ. <i>IEEE Communications Letters</i> , <b>2005</b> , 9, 90-92	3.8	5
15	Scalable parameter tuning for AVQ. <i>IEEE Communications Letters</i> , <b>2005</b> , 9, 90-92	3.8	
14	Network traffic prediction based on a new time series model. <i>International Journal of Communication Systems</i> , <b>2005</b> , 18, 711-729	1.7	19
13	Fast algorithms for multidimensional DCT-to-DCT computation between a block and its associated subblocks. <i>IEEE Transactions on Signal Processing</i> , <b>2005</b> , 53, 3219-3225	4.8	10
12	A novel VLSI architecture for multidimensional discrete wavelet transform. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2004</b> , 14, 1105-1110	6.4	24
11	Temporal inference of workflow systems based on time petri nets: Quantitative and qualitative analysis. <i>International Journal of Intelligent Systems</i> , <b>2004</b> , 19, 417-442	8.4	9
10	Session-affinity aware request allocation for Web clusters <b>2004</b> ,		1
9	Stability analysis of buffer priority scheduling policies using Petri nets. <i>Journal of Computer Science and Technology</i> , <b>2003</b> , 18, 278-286	1.7	
8	A sufficient condition for instability of buffer priority policies in re-entrant lines. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 1235-1238	5.9	5
7	An accurate scene-based traffic model for MPEG video stream		4
6	Security analysis of mandatory access control model		2
5	Modeling and performance analysis of a multiserver multiqueue system on the grid		1
4	A multiobjective model for QoS multicast routing based on genetic algorithm		1
3	Queue management for QoS provision build on network processor		3
2	Session based differentiated quality of service admission control for Web servers		1
1	Rethink the tradeoff between proportional controller and PI controller		2