Christian Bonnet

List of Publications by Year
in descending order

125 papers	3,291 citations	840776 11 h-index	794594 19 g-index
128 all docs	128 docs citations	128 times ranked	2921 citing authors

#	Article	IF	Citations
1	Mobility models for vehicular ad hoc networks: a survey and taxonomy. IEEE Communications Surveys and Tutorials, 2009, 11, 19-41.	39.4	546
2	OpenAirInterface. Computer Communication Review, 2014, 44, 33-38.	1.8	324
3	Vehicular Mobility Simulation for VANETs. , 2007, , .		243
4	An IoT gateway centric architecture to provide novel M2M services. , 2014, , .		163
5	Fog Computing architecture to enable consumer centric Internet of Things services. , 2015, , .		100
6	Survey, comparison and evaluation of cross platform mobile application development tools. , 2013, , .		80
7	Vehicular mobility simulation with VanetMobiSim. Simulation, 2011, 87, 275-300.	1.8	77
8	Vehicles as Connected Resources: Opportunities and Challenges for the Future. IEEE Vehicular Technology Magazine, 2017, 12, 26-35.	3.4	63
9	Integrating connected vehicles in Internet of Things ecosystems: Challenges and solutions. , 2016, , .		61
10	Demo: OpenAirInterface. , 2014, , .		59
11	Resource discovery in Internet of Things: Current trends and future standardization aspects. , 2015, , .		56
12	SDN-based distributed mobility management for 5G networks. , 2016, , .		55
13	Enrich machine-to-machine data with semantic web technologies for cross-domain applications. , 2014, , .		52
14	Cross-Domain Internet of Things Application Development: M3 Framework and Evaluation. , 2015, , .		51
15	Applying Internet of Things for personalized healthcare in smart homes. , 2015, , .		50
16	Impact of packetization and functional split on C-RAN fronthaul performance. , 2016, , .		49
17	Android power management: Current and future trends. , 2012, , .		46
18	Low latency MEC framework for SDN-based LTE/LTE-A networks. , 2017, , .		45

#	Article	IF	Citations
19	oneM2M Architecture Based User Centric IoT Application Development. , 2015, , .		43
20	Smart M2M Gateway Based Architecture for M2M Device and Endpoint Management. , 2014, , .		39
21	A lightweight framework for efficient M2M device management in oneM2M architecture. , 2015, , .		38
22	LOV4IoT: A Second Life for Ontology-Based Domain Knowledge to Build Semantic Web of Things Applications. , 2016, , .		38
23	oneM2M architecture based IoT framework for mobile crowd sensing in smart cities. , 2016, , .		35
24	Contention Based Access for Machine-Type Communications over LTE. , 2012, , .		34
25	Standardizing generic cross-domain applications in Internet of Things. , 2014, , .		33
26	IoT device management framework for smart home scenarios. , 2015, , .		30
27	Topology Management for Improving Routing and Network Performances in Mobile Ad Hoc Networks. Mobile Networks and Applications, 2004, 9, 583-594.	3.3	28
28	Optimal Constant-Window Backoff Scheme for IEEE 802.11 DCF in Single-Hop Wireless Networks Under Finite Load Conditions. Wireless Personal Communications, 2007, 43, 1583-1602.	2.7	27
29	A Categorization of Discovery Technologies for the Internet of Things. , 2016, , .		26
30	Kinetic mobility management applied to vehicular ad hoc network protocols. Computer Communications, 2008, 31, 2907-2924.	5.1	24
31	Analyzing X2 handover in LTE/LTE-A. , 2016, , .		24
32	Propagation of Public Safety Warning Messages: A Delay Tolerant Network Approach. , 2010, , .		23
33	IoT Based UAV Platform for Emergency Services. , 2018, , .		23
34	A survey and analysis of ontology-based software tools for semantic interoperability in IoT and WoT landscapes. , 2018, , .		23
35	Describing things in the Internet of Things: From CoRE link format to semantic based descriptions. , 2016, , .		22
36	DataTweet: An architecture enabling data-centric IoT services. , 2016, , .		21

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37	Integrating Named Data Networking in Internet of Things architecture. , 2016, , .		21
38	Understanding Vehicular Mobility in Network Simulation. , 2007, , .		19
39	IPv6 Soft Handover Applied to Network Mobility over Heterogeneous Access Networks. , 2007, , .		18
40	Reusing and Unifying Background Knowledge for Internet of Things with LOV4IoT. , 2016, , .		18
41	Performance Analysis of IEEE 802.11p Control Channel. , 2010, , .		17
42	Vehicular Delay Tolerant Networks. , 0, , 356-367.		17
43	Design and Implementation of a Single-Frequency Mesh Network Using OpenAirInterface. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	16
44	An Ontology-Based Approach for Helping to Secure the ETSI Machine-to-Machine Architecture. , 2014, , .		16
45	CCT: Connect and Control Things: A novel mobile application to manage M2M devices and endpoints. , 2014, , .		16
46	Demo: Closer to Cloud-RAN. , 2015, , .		16
47	Minimizing energy expenditure in smart devices. , 2013, , .		15
48	Self-adaptive battery and context aware mobile application development. , 2014, , .		15
49	Internet of Things and M2M Communications as Enablers of Smart City Initiatives. , 2015, , .		15
50	A Semantic Engine for Internet of Things: Cloud, Mobile Devices and Gateways. , 2015, , .		15
51	MEC and IoT Based Automatic Agent Reconfiguration in Industry 4.0. , 2018, , .		15
52	An overview of OpenAirInterface wireless network emulation methodology. Performance Evaluation Review, 2008, 36, 90-94.	0.6	14
53	Assisting IoT Projects and Developers in Designing Interoperable Semantic Web of Things Applications. , 2015, , .		14
54	Architectures for cognitive radio testbeds and demonstrators - An overview. , 2010, , .		13

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55	Easing IoT application development through DataTweet framework. , 2016, , .		13
56	Performance Analysis and Optimization of the 802.11e EDCA Transmission Opportunity (TXOP) Mechanism. , 2007, , .		12
57	Search engine based resource discovery framework for Internet of Things. , 2015, , .		12
58	OLSR and MPR: Mutual Dependences and Performances. International Federation for Information Processing, 2006, , 67-71.	0.4	12
59	Host Identity Protocol and Proxy Mobile IPv6: A Secure Global and Localized Mobility Management Scheme for Multihomed Mobile Nodes. , 2009, , .		11
60	Adapting contention-based forwarding to urban vehicular topologies for active safety applications. Annales Des Telecommunications/Annals of Telecommunications, 2013, 68, 267-285.	2.5	11
61	Performance optimization of multicast content delivery in a Mobile environment based on PMIPv6. , 2013, , .		11
62	Implementation and validation of Multimedia Broadcast Multicast Service for LTE/LTE-advanced in OpenAirInterface platform. , 2013, , .		11
63	The STAC (security toolbox: attacks & countermeasures) ontology. , 2013, , .		11
64	Cross-Layer QoS Routing Framework for Wireless Mesh Networks. , 2008, , .		10
65	Combining mobility and heterogeneous networking for emergency management. , 2009, , .		10
66	DMM-based inter-domain mobility support for Proxy Mobile IPv6. , 2013, , .		10
67	Connect and Control Things: Integrating Lightweight IoT Framework into a Mobile Application. , 2015, , .		10
68	A hybrid centralized-Distributed Mobility Management for supporting highly mobile users. , 2015, , .		10
69	Rethinking the Overhead of Geo-Localization Information for Vehicular Communications. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .	0.0	9
70	Experimental Evaluation of Proxy Mobile IPv6: An Implementation Perspective. , 2010, , .		9
71	Power monitor v2: Novel power saving Android application. , 2013, , .		9
72	A hybrid centralized-distributed mobility management architecture for Network Mobility. , 2015, , .		9

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73	Kinetic Multipoint Relaying: Improvements Using Mobility Predictions. Lecture Notes in Computer Science, 2009, , 224-229.	1.3	9
74	QoS-based adaptive error control for wireless networks. Wireless Communications and Mobile Computing, 2003, 3, 37-50.	1.2	7
75	CROMA â€" An Enhanced Slotted MAC Protocol for MANETs. Mobile Networks and Applications, 2005, 10, 183-197.	3.3	7
76	Trajectory knowledge for improving topology control in mobile ad-hoc networks. , 2005, , .		7
77	Optimal constant-window backoff scheme for IEEE 802.11 DCF in finite load single-hop wireless networks. , 2006, , .		7
78	Application distribution model and related security attacks in VANET. , 2013, , .		7
79	Integrating machine-to-machine measurement framework into oneM2M architecture. , 2015, , .		7
80	Multicast and Virtual Road Side Units for Multi Technology Alert Messages Dissemination. , 2011, , .		6
81	Personalized power saving profiles generation analyzing smart device usage patterns. , 2014, , .		6
82	CROSS-LAYERâ€™S PARADIGM FEATURES IN MANET: BENEFITS AND CHALLENGES. , 2005, , .		6
83	Enhancements for Simultaneous Access in Network-based Localized Mobility Management. , 2007, , .		5
84	Topology management for group oriented networks. , 2010, , .		5
85	Considerations of IP multicast for load balancing in Proxy Mobile IPv6 networks. Computer Networks, 2014, 72, 113-126.	5.1	5
86	On the Application of Mobility Predictions to Multipoint Relaying in MANETs: Kinetic Multipoint Relays. Lecture Notes in Computer Science, 2005, , 143-156.	1.3	5
87	Lower Bound on Time-Delay Estimation Error of UWB Signals. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	4
88	Topology management for public safety networks. , 2009, , .		4
89	Proxy mobile IPv6 for electric vehicle charging service: Use cases and analysis. , 2013, , .		4
90	An IPv6 architecture for cloud-to-vehicle smart mobility services over heterogeneous vehicular networks. , 2014, , .		4

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91	DMMS: A flexible architecture for multicast listener support in a distributed mobility management environment. Computer Networks, 2016, 94, 129-144.	5.1	4
92	Energy-based routing optimization in MANET: Cross-layer benefits. , 2007, , .		3
93	Scalable proxy mobile IPv6 for heterogeneous wireless networks. , 2008, , .		3
94	Can mobility predictions be compatible with cooperative active safety for VANET?. , 2012, , .		3
95	Hybrid scheduling for event-driven simulation over heterogeneous computers. , 2013, , .		3
96	Service continuity for eMBMS in LTE/LTE-Advanced network: Standard analysis and supplement. , 2014, , .		3
97	Load balancing mechanism for Proxy Mobile IPv6 networks: An IP multicast perspective. , 2014, , .		3
98	IoT Platform for Precision Positioning Service for Highly Autonomous Vehicles. , 2018, , .		3
99	Public Safety Networks. , 0, , 267-284.		3
100	Kinetic graphs. , 2007, , .		2
101	Proxy Mobile IPv6 for Cluster Based Heterogeneous Wireless Mesh networks. , 2008, , .		2
102	Efficient Multicast Content Delivery over a Distributed Mobility Management Environment. , 2013, , .		2
103	On the efficiency of dynamic multicast mobility anchor selection in DMM: Use cases and analysis. , 2014, , .		2
104	Phy layer abstraction for SU-MIMO LTE system employing parallel interference-aware detection. , 2016, , .		2
105	An IoT framework for intelligent roadside assistance system. , 2017, , .		2
106	Coordinator-Master-Worker Model For Efficient Large Scale Network Simulation. , 2013, , .		2
107	Adaptive Packet Combining for IPv6 soft handover applied to Network Mobility. , 2008, , .		1
108	Dynamic topology implementation and maintenance for the CHORIST network. , 2009, , .		1

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109	Supply and demand, a dynamic topology control method for mesh networks. , 2010, , .		1
110	Usage patterns based security attacks for smart devices. , 2014, , .		1
111	Buffer Management Policies for DTN Applications with Different QoS Requirements. , 2014, , .		1
112	Interworking of NDN with IoT architecture elements: Challenges and solutions. , 2016, , .		1
113	Demonstrating Named Data Networking integration into DataTweet IoT Architecture. , 2017, , .		1
114	Public Safety Networks. , 0, , 376-393.		1
115	Improving the MAC Layer of Multi-Hop Networks. Wireless Personal Communications, 2004, 29, 71-100.	2.7	0
116	Crossaid (XAid). , 2007, , .		0
117	A UMTS-TDD Software Radio Platform. , 0, , 97-114.		0
118	Evaluation of Scalable Proxy Mobile IPv6 in Wireless Mesh Networks. , 2009, , .		0
119	Distributed Multi-Level Cooperative Scheme for QoS Support in Public Safety Networks. , 2011, , .		0
120	Near optimal multicoloring for inter-cluster interference avoidance. , 2012, , .		0
121	Improving unreliable mobile GIS with swarm-based particle filters. , 2012, , .		0
122	LTE Broadcast for Public Safety. , 2016, , 263-293.		0
123	Audio analysis using edge computing for road side assistance systems. , 2017, , .		0
124	IoT Based Positioning Service Platform. , 2018, , .		0
125	IP Mobility Management for Future Public Safety Networks. , 2016, , 127-172.		0