

Giuseppe Bianchi

List of Publications by Year in descending order

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Version: 2024-02-01

151
papers

11,654
citations

218381

26
h-index

114278

63
g-index

152
all docs

152
docs citations

152
times ranked

5582
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | “Cellular Network Densification Increases Radio-Frequency Pollution”: True or False?. IEEE Transactions on Wireless Communications, 2022, 21, 2608-2622. | 6.1 | 11 |
| 2 | <scp>OpenNym</scp> : Privacy preserving recommending via pseudonymous group authentication. Security and Privacy, 2022, 5, . | 1.9 | 0 |
| 3 | Processor Security: Detecting Microarchitectural Attacks via Count-Min Sketches. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2022, 30, 938-951. | 2.1 | 2 |
| 4 | LOcAl DEcisions on Replicated States (LOADER) in programmable dataplanes: Programming abstraction and experimental evaluation. Computer Networks, 2021, 184, 107637. | 3.2 | 2 |
| 5 | AI-assisted peer review. Humanities and Social Sciences Communications, 2021, 8, . | 1.3 | 69 |
| 6 | Capture Aware Sequential Waterfilling for LoRaWAN Adaptive Data Rate. IEEE Transactions on Wireless Communications, 2021, 20, 2019-2033. | 6.1 | 22 |
| 7 | Editorial for the Special Issue on Sustainable Cyber Forensics and Threat Intelligence. IEEE Transactions on Sustainable Computing, 2021, 6, 182-183. | 2.2 | 0 |
| 8 | More Accurate Streaming Cardinality Estimation With Vectorized Counters. IEEE Networking Letters, 2021, 3, 75-79. | 1.5 | 0 |
| 9 | IMSI Catchers in the wild: A real world 4G/5G assessment. Computer Networks, 2021, 194, 108137. | 3.2 | 10 |
| 10 | Design and Experimental Assessment of Detection Schemes for Air Interface Attacks in Adverse Scenarios. IEEE Wireless Communications Letters, 2021, 10, 1989-1993. | 3.2 | 2 |
| 11 | A Lightweight Security Checking Module to Protect Microprocessors against Hardware Trojan Horses. , 2021, , . | | 9 |
| 12 | Do Dense 5G Networks Increase Exposure to Electromagnetic Fields? [Point of View]. Proceedings of the IEEE, 2021, 109, 1880-1887. | 16.4 | 4 |
| 13 | A look at interdisciplinarity using bipartite scholar/journal networks. Scientometrics, 2020, 122, 867-894. | 1.6 | 11 |
| 14 | Will the Proliferation of 5G Base Stations Increase the Radio-Frequency “Pollution”? , 2020, , . | | 8 |
| 15 | Fast Updates for Line-Rate HyperLogLog-Based Cardinality Estimation. IEEE Communications Letters, 2020, 24, 2737-2741. | 2.5 | 3 |
| 16 | Is It Safe Living in the Vicinity of Cellular Towers? Analysis of Long-Term Human EMF Exposure at Population Scale. , 2020, , . | | 5 |
| 17 | Smashing OpenFlow's “atomic” actions: Programmable data plane packet manipulation in hardware. International Journal of Network Management, 2019, 29, e2043. | 1.4 | 1 |
| 18 | XTRA: Towards Portable Transport Layer Functions. IEEE Transactions on Network and Service Management, 2019, 16, 1507-1521. | 3.2 | 9 |

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| 19 | A Tutorial on IEEE 802.11ax High Efficiency WLANs. IEEE Communications Surveys and Tutorials, 2019, 21, 197-216. | 24.8 | 336 |
| 20 | A Fully Portable TCP Implementation Using XFSMs. , 2018, , . | | 5 |
| 21 | Living and Fluid Networks: The way ahead?. Computer Communications, 2018, 131, 46-50. | 3.1 | 0 |
| 22 | Low-Cost Standard Signatures for Energy-Harvesting Wireless Sensor Networks. Transactions on Embedded Computing Systems, 2017, 16, 1-23. | 2.1 | 16 |
| 23 | BLC. ACM Transactions on Privacy and Security, 2017, 20, 1-25. | 2.2 | 5 |
| 24 | A Survey on the Security of Stateful SDN Data Planes. IEEE Communications Surveys and Tutorials, 2017, 19, 1701-1725. | 24.8 | 133 |
| 25 | Implementing a Per-Flow Token Bucket Using Open Packet Processor. Communications in Computer and Information Science, 2017, , 251-262. | 0.4 | 1 |
| 26 | On offloading programmable SDN controller tasks to the embedded microcontroller of stateful SDN dataplanes. , 2017, , . | | 2 |
| 27 | OAuth-IoT: An access control framework for the Internet of Things based on open standards. , 2017, , . | | 45 |
| 28 | LTE-based passive device-free crowd density estimation. , 2017, , . | | 16 |
| 29 | Implementing iptables using a programmable stateful data plane abstraction. , 2017, , . | | 5 |
| 30 | Public Key Authentication and Key Agreement in IoT Devices With Minimal Airtime Consumption. IEEE Embedded Systems Letters, 2017, 9, 1-4. | 1.3 | 79 |
| 31 | HELIOS: Outsourcing of Security Operations in Green Wireless Sensor Networks. , 2017, , . | | 2 |
| 32 | An online approach for joint task assignment and worker evaluation in crowd-sourcing. , 2017, , . | | 1 |
| 33 | D-STREAMON " NFV-Capable Distributed Framework for Network Monitoring. , 2017, , . | | 4 |
| 34 | MAC learning. , 2016, , . | | 2 |
| 35 | MAC design on real 802.11 devices: From exponential to Moderated Backoff. , 2016, , . | | 3 |
| 36 | Superfluidity: a flexible functional architecture for 5G networks. Transactions on Emerging Telecommunications Technologies, 2016, 27, 1178-1186. | 2.6 | 52 |

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| 37 | Stateful OpenFlow: Hardware proof of concept. , 2015, , . | | 16 |
| 38 | Key Management Protocol with Implicit Certificates for IoT systems. , 2015, , . | | 55 |
| 39 | Per-Frame Energy Consumption in 802.11 Devices and Its Implication on Modeling and Design. IEEE/ACM Transactions on Networking, 2015, 23, 1243-1256. | 2.6 | 59 |
| 40 | Networking and communications for smart cities special issue editorial. Computer Communications, 2015, 58, 1-3. | 3.1 | 17 |
| 41 | Modeling and Analysis of Random Access Channels With Bursty Arrivals in OFDMA Wireless Networks. IEEE Transactions on Wireless Communications, 2015, 14, 1940-1953. | 6.1 | 135 |
| 42 | Performance Assessment of an Epidemic Protocol in VANET Using Real Traces. Procedia Computer Science, 2014, 40, 92-99. | 1.2 | 45 |
| 43 | Simulating the Statistics of the First Meetings Using Dynamic "Open Environments", , 2014, , . | | 1 |
| 44 | A General, Tractable and Accurate Model for a Cascade of LRU Caches. IEEE Communications Letters, 2014, 18, 877-880. | 2.5 | 26 |
| 45 | Weighting peer reviewers. , 2014, , . | | 1 |
| 46 | OpenState. Computer Communication Review, 2014, 44, 44-51. | 1.5 | 268 |
| 47 | StreaMon: A software-defined monitoring platform. , 2014, , . | | 7 |
| 48 | Traffic-Aware Design of a High-Speed FPGA Network Intrusion Detection System. IEEE Transactions on Computers, 2013, 62, 2322-2334. | 2.4 | 60 |
| 49 | Conditional disclosure of encrypted whitelists for DDoS attack mitigation. , 2013, , . | | 0 |
| 50 | Human time-scale duty cycle for opportunistic WiFi based mobile networks. , 2013, , . | | 5 |
| 51 | Wireless MAC Processor Networking: A Control Architecture for Expressing and Implementing High-Level Adaptation Policies in WLANs. IEEE Vehicular Technology Magazine, 2013, 8, 81-89. | 2.8 | 6 |
| 52 | AGREE: exploiting energy harvesting to support data-centric access control in WSNs. Ad Hoc Networks, 2013, 11, 2625-2636. | 3.4 | 31 |
| 53 | A Survey of Medium Access Mechanisms for Providing QoS in Ad-Hoc Networks. IEEE Communications Surveys and Tutorials, 2013, 15, 592-620. | 24.8 | 66 |
| 54 | Check before storing. Computer Communication Review, 2013, 43, 59-67. | 1.5 | 66 |

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| 55 | One size hardly fits all. , 2013, , . | | 5 |
| 56 | Enabling cognitive-radio paradigm on commercial off-the-shelf 802.11 hardware. , 2013, , . | | 0 |
| 57 | Intermodule data sharing for flexible wireless MAC. , 2013, , . | | 0 |
| 58 | On the interplay among naming, content validity and caching in Information Centric Networks. , 2013, , . | | 7 |
| 59 | MAClets. , 2012, , . | | 42 |
| 60 | Energy consumption anatomy of 802.11 devices and its implication on modeling and design. , 2012, , . | | 71 |
| 61 | Wireless MAC processors: Programming MAC protocols on commodity Hardware. , 2012, , . | | 91 |
| 62 | Let me grab your App: Preliminary proof-of-concept design of opportunistic content augmentation. , 2012, , . | | 12 |
| 63 | Breaking layer 2: A new architecture for programmable wireless interfaces. , 2012, , . | | 1 |
| 64 | Delay performance of a Publish Subscribe system deployed over a memory-constrained, Delay Tolerant Network. , 2011, , . | | 6 |
| 65 | System architecture for collaborative security and privacy monitoring in multi-domain networks. , 2011, , . | | 1 |
| 66 | Challenge: Network-aware human traffic adaptation. , 2011, , . | | 1 |
| 67 | Enabling conditional cross-domain data sharing via a cryptographic approach. , 2011, , . | | 2 |
| 68 | Revisiting an RFID Identification-Free Batch Authentication Approach. IEEE Communications Letters, 2011, 15, 632-634. | 2.5 | 14 |
| 69 | On-demand time-decaying bloom filters for telemarketer detection. Computer Communication Review, 2011, 41, 5-12. | 1.5 | 16 |
| 70 | Building a decentralized, cooperative, and privacy-preserving monitoring system for trustworthiness: the approach of the EU FP7 DEMONS project [Very Large Projects]. , 2011, 49, 16-18. | | 3 |
| 71 | A Framework for Packet-Droppers Mitigation in OLSR Wireless Community Networks. , 2011, , . | | 7 |
| 72 | An architectural solution for data exchange in cooperative network security research. , 2011, , . | | 1 |

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| 73 | Design, implementation and performance evaluation of a publish-subscribe architecture for intermittently connected 802.15.4 networks. , 2011, , . | | 0 |
| 74 | Hardware-Based "on-the-fly" Per-flow Scan Detector Pre-filter (Poster). Lecture Notes in Computer Science, 2011, , 181-184. | 1.0 | 2 |
| 75 | IDS Rules Adaptation for Packets Pre-filtering in Gbps Line Rates. , 2011, , 303-316. | | 1 |
| 76 | Refinements on IEEE 802.11 Distributed Coordination Function Modeling Approaches. IEEE Transactions on Vehicular Technology, 2010, 59, 1055-1067. | 3.9 | 138 |
| 77 | Cross-layer H.264 scalable video downstream delivery over WLANs. , 2010, , . | | 9 |
| 78 | Measurement Data Reduction through Variation Rate Metering. , 2010, , . | | 6 |
| 79 | Key escrow schemes with sliding window for privacy-aware anomaly detection system. , 2010, , . | | 0 |
| 80 | Interference Estimation in IEEE 802.11 Networks. IEEE Control Systems, 2010, 30, 30-43. | 1.0 | 18 |
| 81 | Rethinking the IEEE 802.11e EDCA Performance Modeling Methodology. IEEE/ACM Transactions on Networking, 2010, 18, 540-553. | 2.6 | 76 |
| 82 | Fairness-oriented Overlay VPN topology construction. , 2010, , . | | 1 |
| 83 | Exploiting Dynamic Reconfiguration for FPGA Based Network Intrusion Detection Systems. , 2010, , . | | 9 |
| 84 | Streamline: An Optimal Distribution Algorithm for Peer-to-Peer Real-Time Streaming. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 857-871. | 4.0 | 27 |
| 85 | Flexible key exchange negotiation for wireless sensor networks. , 2010, , . | | 12 |
| 86 | On the side-effects of proprietary solutions for fading and interference mitigation in IEEE 802.11b/g outdoor links. Computer Networks, 2009, 53, 141-152. | 3.2 | 26 |
| 87 | Application-aware H.264 Scalable Video Coding delivery over Wireless LAN: Experimental assessment. , 2009, , . | | 8 |
| 88 | SVEF: an open-source experimental evaluation framework for H.264 scalable video streaming. , 2009, , . | | 41 |
| 89 | The SPARTA Pseudonym and Authorization System. Electronic Notes in Theoretical Computer Science, 2008, 197, 57-71. | 0.9 | 7 |
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| 91 | A push-based scheduling algorithm for large scale P2P live streaming. , 2008, , . | | 17 |
| 92 | User plane security alternatives in the 3G evolved Multimedia Broadcast Multicast Service (e-MBMS). , 2008, , . | | 1 |
| 93 | “Vendor-Affected” WLAN experimental results: A Pandora’s Box?. , 2008, , . | | 1 |
| 94 | A Theory-Driven Distribution Algorithm for Peer-to-Peer Real Time Streaming. , 2008, , . | | 1 |
| 95 | An Explanation for Unexpected 802.11 Outdoor Link-level Measurement Results. , 2008, , . | | 19 |
| 96 | New directions in privacy-preserving anomaly detection for network traffic. , 2008, , . | | 14 |
| 97 | Traffic Flow Confidentiality in IPsec: Protocol and Implementation. , 2008, , 311-324. | | 12 |
| 98 | An Explanation for Unexpected 802.11 Outdoor Link-level Measurement Results. , 2008, , . | | 1 |
| 99 | Out-of-Band Signaling Scheme for High Speed Wireless LANs. IEEE Transactions on Wireless Communications, 2007, 6, 3256-3267. | 6.1 | 10 |
| 100 | P-DIBS: Pseudonymised DIstributed Billing System for Improved Privacy Protection. , 2007, , . | | 1 |
| 101 | Towards Privacy-Preserving Network Monitoring: Issues and Challenges. , 2007, , . | | 8 |
| 102 | Traffic masking in IPsec: architecture and implementation. , 2007, , . | | 4 |
| 103 | Experimental Assessment of the Backoff Behavior of Commercial IEEE 802.11b Network Cards. , 2007, , . | | 75 |
| 104 | Impact of Chosen Error Criteria in RSS-based Localization: Power vs Distance vs Relative Distance Error Minimization. Proceedings - International Symposium on Computers and Communications, 2007, , . | 0.0 | 2 |
| 105 | Broadcast Link Quality Measurements in 802.11 Networks. , 2007, , . | | 8 |
| 106 | Analysis of the IEEE 802.11e EDCA Under Statistical Traffic. , 2006, , . | | 20 |
| 107 | RELAX: REaL time transmission of flight information and bLack boXes data. , 2006, , . | | 0 |
| 108 | Selected papers from the 3rd international workshop on QoS in multiservice IP networks (QoS-IP) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | | |

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| 109 | An analytical model of a new packet marking algorithm for TCP flows. Computer Networks, 2006, 50, 1176-1191. | 3.2 | 0 |
| 110 | Multiple-path layer-2 based routing and load balancing approach for wireless infrastructure mesh networks. , 2006, , . | | 1 |
| 111 | Are 802.11 link quality broadcast measurements always reliable?. , 2006, , . | | 2 |
| 112 | QRP03-4: Efficient Simulation of Bandwidth Allocation Dynamics in P2P Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , . | 0.0 | 5 |
| 113 | Remarks on IEEE 802.11 DCF performance analysis. IEEE Communications Letters, 2005, 9, 765-767. | 2.5 | 226 |
| 114 | Understanding 802.11e contention-based prioritization mechanisms and their coexistence with legacy 802.11 stations. IEEE Network, 2005, 19, 28-34. | 4.9 | 122 |
| 115 | Switched Ethernet Networking over LEO Satellite. , 2005, , . | | 3 |
| 116 | Channel-dependent load balancing in wireless packet networks. Wireless Communications and Mobile Computing, 2004, 4, 43-53. | 0.8 | 12 |
| 117 | Streaming for vehicular users via elastic proxy buffer management. , 2004, 42, 144-152. | | 20 |
| 118 | Guest Editorial: Wireless Mobile Internet. Wireless Networks, 2003, 9, 281-282. | 2.0 | 0 |
| 119 | Design and Validation of QoS Aware Mobile Internet Access Procedures for Heterogeneous Networks. Mobile Networks and Applications, 2003, 8, 11-25. | 2.2 | 18 |
| 120 | Design and performance evaluation of an hybrid reservation-polling MAC protocol for power-line communications. International Journal of Communication Systems, 2003, 16, 427-445. | 1.6 | 6 |
| 121 | QUASIMODO: quality of service-aware multicasting over DiffServ and overlay networks. IEEE Network, 2003, 17, 38-45. | 4.9 | 36 |
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| 125 | Endpoint admission control with delay variation measurements for QoS in IP networks. Computer Communication Review, 2002, 32, 61-69. | 1.5 | 27 |
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| 130 | A programmable MAC framework for utility-based adaptive quality of service support. IEEE Journal on Selected Areas in Communications, 2000, 18, 244-255. | 9.7 | 38 |
| 131 | IEEE 802.11-saturation throughput analysis. IEEE Communications Letters, 1998, 2, 318-320. | 2.5 | 356 |
| 132 | The role of local storage in supporting video retrieval services on ATM networks. IEEE/ACM Transactions on Networking, 1997, 5, 882-892. | 2.6 | 8 |
| 133 | C-PRMA: a centralized packet reservation multiple access for local wireless communications. IEEE Transactions on Vehicular Technology, 1997, 46, 422-436. | 3.9 | 109 |
| 134 | Capture-division packet access for wireless personal communications. IEEE Journal on Selected Areas in Communications, 1996, 14, 609-622. | 9.7 | 60 |
| 135 | Improved queueing analysis of shared buffer switching networks. IEEE/ACM Transactions on Networking, 1993, 1, 482-490. | 2.6 | 38 |
| 136 | Improved queueing analysis of shared buffer switching networks. , 0, , . | | 5 |
| 137 | Performance evaluation and enhancement of the CSMA/CA MAC protocol for 802.11 wireless LANs. , 0, , . | | 353 |
| 138 | Buffer sizing for high speed video information retrieval on ATM networks. , 0, , . | | 2 |
| 139 | A programmable MAC. , 0, , . | | 5 |
| 140 | On utility-fair adaptive services in wireless networks. , 0, , . | | 58 |
| 141 | Admission control over assured forwarding PHBs: a way to provide service accuracy in a DiffServ framework. , 0, , . | | 29 |
| 142 | Joint support of QoS and mobility in a stateless IP environment. , 0, , . | | 7 |
| 143 | Performance evaluation of a new adaptive packet marking scheme for TCP over DiffServ networks. , 0, , . | | 6 |
| 144 | Performance analysis of the out-of-band signaling scheme for high speed wireless LANs. , 0, , . | | 5 |

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| 145 | An analytical model of a new packet marking algorithm for tcp flows: preliminary insights. , 0, , . | | 2 |
| 146 | Is TCP packet reordering always harmful?. , 0, , . | | 2 |
| 147 | 802.11b/g Link Level Measurements for an Outdoor Wireless Campus Network. , 0, , . | | 34 |
| 148 | An Experimental Testbed and Methodology for Characterizing IEEE 802.11 Network Cards. , 0, , . | | 7 |
| 149 | Measurement Study of the Mobile Agent JADE Platform. , 0, , . | | 3 |
| 150 | Performance Understanding of IEEE 802.11 DCF and IEEE 802.11e EDCA. , 0, , 63-104. | | 2 |
| 151 | Legislation-Aware Privacy Protection in Passive Network Monitoring. , 0, , 363-383. | | 17 |