

Prof. Giuseppe Bianchi

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General Research interests	Networking & Internet, Network Security & Privacy, Wireless Networks, performance modeling.
Bibliometric summary data	<ul style="list-style-type: none">• Total international publications (peer reviewed: more than 95%): ~262 (as of Nov 2019)• Total citations: 17844 (as of Nov 2019, source scholar.google.com)• Top cited paper: 10045 (as of Nov 2019, source scholar.google.com) – <i>received one among the most prestigious awards (ACM SIGMOBILE Test of Time, 2017) for long-lasting high impact scientific contributions.</i>• H-index: 38 (as of April 2019, source scholar.google.com)
Education	<ul style="list-style-type: none">• 1991, Post-Laurea specialization degree in Information Technology, CEFRIEL• 1990, Laurea degree, Electronic Engineering (math/physics track), Politecnico di Milano
Principal Position	<ul style="list-style-type: none">• 2007-today Full professor, Faculty of Engineering, Univ. Roma Tor Vergata• 2004-2006 Associate Professor, Faculty of Engineering, Univ. Roma Tor Vergata• 1998-2003 Associate Professor, Faculty of Engineering, Univ. Palermo• 1993-1998 Assistant Professor, Politecnico di Milano• 1991-1993 Researcher, CEFRIEL Milano
Current Additional Positions	<ul style="list-style-type: none">• 2016+: Honorary Chair Professor, National Taiwan University of Science & Technology• 2008-2013 and 2016-today: Scientific director of CNIT research Unit Roma Tor Vergata
Past Additional Positions	<ul style="list-style-type: none">• 2012-2017: Member of GTTI Board• 2014-2016: Member of CNIT executive committee (Consiglio di amministrazione)• 2010-2016: Chair of the Bachelor/Master Programme in Internet engineering (formerly Telecommunications engineering) Univ. Roma Tor Vergata• 2008-2010 Chair of the PhD Programme in Telecommunications and microelectronics, Univ. Roma Tor Vergata• 2008-2013 Member of CNIT Scientific Board
Visiting Positions	<ul style="list-style-type: none">• 2014 (2M), Visiting Professor, Nat. Univ. of Maynooth, Dublin, Ireland (hosted by Prof. D. Leith)• 2012 (2M), Visiting Professor, UCLA, Los Angeles, USA (hosted by prof. Van Der Schaar)• 2011 (2M), Visiting Professor, Nat. Univ. of Maynooth, Dublin, Ireland (hosted by Prof. D. Leith)• 1997-1998 (9M), Visiting Professor, Columbia Univ., NY, USA (hosted by Prof. A. Campbell)• 1992-1993 (14M), Visiting Res., Washington Univ., St. Louis, MO, USA (host Prof. J. S. Turner)
Professional services	<p>Area/Associate Journal Editor</p> <ul style="list-style-type: none">• 2010-2014: IEEE Transactions on Networking• 2008-today: Elsevier Computer Communications• 2011-2016: IEEE Transactions on Wireless Communications (area editor)• 2016-today: IEEE Transactions on Network and Service Management <p>Guest Editor</p> <ul style="list-style-type: none">• 2014: Elsevier Computer Communications, Special Issue on Networking and Communications for Smart Cities, with F. Theoleyre, T. Watteyne, V. C. Gungor, A. C. Pang, G. Tuna• 2008: Elsevier Pervasive Mobile Computing Journal, ``Selected Papers from IEEE WoWMoM'', with Sunghyun Choi• 2006: Journal of Selected Areas in Communications (JSAC), Special issue ``Multi-Hop Wireless Mesh Networks'', with Edward Knightly, Xingang Guo, and Shyam S. Chakraborty• 2005: ACM SIGMOBILE Mobile Computing and Communications Review (MC2R), ``Selected Papers from ACM WMASH 2004'' with Sunghyun Choi and Bill Schilit• 2004: ACM Springer Mobile Networks and Applications (MONET) Journal, special issue ``Wireless Applications and Services on WLAN Hotspots'', with Parviz Kermani and Sung Ju Lee

- 2004: Wiley Int. Journal of Communication Systems, special issue ``QoS Support and Service Differentiation in Wireless Networks'', with Aftab Ahmad, Larry Bernstein, Gabor Fodor, Guy Pujolle, Lee Bu Sung, Yu-Dong Yao
- 2003: ACM Springer Mobile Networks and Applications (MONET) Journal, special issue ``Wireless Mobile Internet'', with Parviz Kermain and Sung Ju Lee

Conference/Workshop General/Technical Chairing

- 2019: IEEE Int. Conf. on Sensing, Communication and Networking (SECON), tech. program chair
- 2018: IEEE High Performance Switching and Routing, Bucharest, technical program chair
- 2018: IEEE International Teletraffic Conference (ITC 30), Wien, technical program chair
- 2018: IEEE IEEE Wireless Communications and Networking Conference, track chair, barcelona
- 2016-2017: 1st and 2nd int. INFOCOM Workshop on Software-Driven Flexible and Agile Networking, workshop co-founder and general co-Chair
- 2015, 11th ACM CoNext, General co-Chair
- 2014, 33rd IEEE Infocom, Technical Program Chair
- 2013, 2nd SRIF ACM SIGCOMM Workshop on Software Defined Radio Implementation, Hong Kong, Technical Program co-chair
- 2013, 1st WiFlex Workshop, Kaliningrad, Russia, General Co-chair
- 2011, 6th ACM WinTech (ACM MobiCom workshop), Chicago, Chair
- 2010, 11th IEEE WoWMoM 2010, Montreal (Canada), General Chair
- 2010, 21st Tyrrhenian Workshop, Ponza (Italia), Technical Program Chair
- 2008, 19th IEEE PIMRC 2008, Cannes (Francia), Technical MAC track chair
- 2007, 8th IEEE WoWMoM 2007, Buffalo (USA), Technical Program Chair
- 2005, 3rd IEEE QoS-IP, Catania, Italy, Technical Program Chair
- 2004, 2nd ACM Workshop on Wireless Applications and Services on WLAN Hotspots (WMASH2004, ACM MobiCom workshop), Philadelphia, USA, General Chair
- 2003, 1st ACM Workshop on Wireless Applications and Services on WLAN Hotspots (WMASH2003, ACM MobiCom workshop), San Diego, USA, Technical Program Chair
- 2001, 1st ACM Wireless Mobile Internet (WMI2001, ACM MobiCom workshop), Roma, IT, Chair

Conference/Workshop steering committees

- 2015+, IFIP Wireless and Mobile Networking Conference
- 2014+, ACM Wintech
- 2003-2004, ACM WMASH (workshop founder)

Conference/Workshop other services chairing (list limited to 2007+)

- 2013, 32th IEEE Infocom Turin (Italia), Panel Chair
- 2009, 5th ACM CoNEXT, Roma (Italia), Publicity Chair

Technical Program Committee Member – int. conferences (list limited to 2011+)

- ACM SIGMETRICS 2016
 - CYCON 2017, 2018
 - IFIP PERFORMANCE 2017, 2018
 - IEEE WoWMoM 2011-2019
 - ACM CONEXT 2012, 2014, 2017
 - IEEE SECON 2011, 2012, 2015
 - IEEE ICC 2017, 2018, 2019
 - MedHocNet 2014,2016, 2017, 2018
 - IEEE LANMAN 2018
 - ACM MOBICOM 2014
 - IEEE DYSPAN 2018
 - IEEE HPRS 2019
 - IEEE INFOCOM 2013, 2015-17 (Area Chair)
 - IEEE CNS 2013, 2014, 2015, 2016
 - ITC 2012, 2013, 2014, 2016, 2017
 - IEEE ISCC 2011
 - IEEE/IFIP WONS 2011, 2012, 2016, 2017, 2018
 - ICDCS 2018, 2019
- **Plus many more TCP membership to workshops and small conferences**

Research project evaluation

- For Italy: MIUR (Ministry of Research), Univ. Padova, Univ. Palermo
- For Singapore: A-STAR, NRF
- For France: ANR (French National Agency for Research)
- For Ireland: Science Foundation Ireland
- For Austria: Austria Science Fund

Teaching

Current

- Network security

- Networking fundamentals
- Vulnerability and Defense of Internet systems (limited to course responsible)

Past

- Internet basics
- Access Networks
- Wireless networks
- Stochastic Processes
- Telecommunication networks
- Digital Signal Processing
- Signals & Systems

Large (>2M€) international project as PI/coordinator

- 2015-2017: General Coordinator, EU project H2020-BEBA (on software defined networking), EU Obj. ICT-05 (Future Networks), 6 partners, total grant ~2.6M€, own unit grant ~700K€.
- 2015-2017: Technical Coordinator, EU project H2020-SCISSOR (on security in SCADA / smart grids), Obj. ICT-32 (ICT security), 9 partners, total grant ~4M€, own unit grant ~550K€.
- 2010-2013: General Coordinator, EU STREP project FP7-FLAVIA (on programmable wireless); Obj. 1.1 (network of the Future), 11 partners, total grant ~3.9M€, own unit grant ~800K€
- 2010-2013: Scientific Coordinator, EU IP project FP7-DEMONS (on distributed and cooperative network monitoring for security, EU objective 1.4 (Trustworthy Internet), 13 partners, total grant ~5.6M€, own unit grant ~700K€
- 2008-2010: Technical Coordinator, EU STREP project FP7-PRISM (on privacy-preserving network monitoring), EU objective 1.4 (Trustworthy Internet), 9 partners, total grant ~2.3M€, own unit grant ~600K€
- 2006-2008: General Coordinator, EU STREP Project FP6-DISCREET (privacy in smart environments), EU objective 1.4 (Trustworthy Internet), 10 partners, total grant ~2.4M\$, own unit grant ~450K€

Grants & Projects

International smaller scale coordinated projects

- 2014-2016: EU CIPS CI2C, (on cloud in critical infrastructures) , CO-PI with M.C. Brugnoli ICT4PEOPLE CNIT unit, 5 partners, total grant ~450K€, own unit grant ~200K€

International projects (as proponent/research unit coordinator)

- 2019-2021: EU H2020 project SPARTA (on ICT security), unit leader, own unit grant ~250K€
- 2018-2020: EU H2020 DS-8 project BPR4GDPR (on GDPR compliance and data protection), unit leader, own unit grant ~400K€
- 2017-2019: EU H2020 5G-call project 5G-PICTURE (on programmable data planes for 5G), unit leader, own unit grant ~450K€
- 2015-2017: EU H2020 DS-2 project RECRED (on access control and digital identities), unit leader, own unit grant ~450K€
- 2015-2017: EU H2020 5G-call project FLEX5GWARE (on reconfigurable wireless interfaces), unit leader, own unit grant ~270K€
- 2016-2018: EU H2020 IoT-call project SYMBIOTE (on interoperability of IoT platforms), unit leader, own unit grant ~500K€
- 2008-2011: EU STREP project FP7-PERIMETER (on user centric networking, EU objective 1.6 (experimentally driven research on future internet)
- 2004: ESA QoS-DVB-RCS (QoS in satellite systems DVB-RCS)
- 2001-2003: EU ITEA project POLLENS (on Open, Light, Legible & Efficient Network Services)

International projects (as research collaborator)

- 2015-2017: collaborator, EU H2020 FIRE project WISHFUL (on wireless reconfigurable testbeds)
- 2015-2017: support to the coordinator, EU H2020 5G-call project SUPERFLUIDITY (on reconfigurable virtualized 5G core network)
- 2013-2014: collaborator, EU STREP project CREW (on programmable Layer 2 experimental platforms)
- 2013-2015: collaborator, EU-Japan STREP Project, GreenICT (on information centric networking)
- 2011-2013: collaborator, EU STREP project CONVERGENCE (on content centricity)
- 2008-2010: collaborator, EU STREP project FP7-MOMENT (on Internet monitoring and measurement), EU objective 1.1 (the network of the Future)
- 2005-2006: collaborator, EU NOE project FP6-SATNEX (Satellite network of excellence)
- 2002-2004: collaborator, EU FP5 project FIFTH (Fast Internet for Fast Trains)

- 2001-2003: collaborator, EU FP5 project ICEBERGS (IP Conferencing with Broadband multimedia over Geostationary Satellites)
- 2000-2002: collaborator, EU FP5 project SUITED (Multi-Segment System for Ubiquitous Access to Internet Services and Demonstrator)
- 1999-2001: collaborator, EU ITEA project RTIPA (Real Time Internet Platform Architectures)

National projects (list restricted to national- or unit-coordinated)

- 2012-2013: National coordinator, PRIN PeopleNet (on mobile social networking)
- 2009-2011: co-proponent, PRIN IMPRESA (on network monitoring)
- 2008-2009: unit management coordination, PRIN SORPASSO (on overlay networks)
- 2004-2006: national coordinator, PRIN TWELVE (on 802.11/wifi differentiated service levels)
- 2002-2005: unit coordinator, FIRB-PRIMO (reconfigurable platforms for broadband wireless)
- 2002-2004: unit coordinator, FIRB-VICOM (Virtual Immersive Communications)
- 2002-2004: unit coordinator, FIRB-TANGO (Traffic Algorithms for network Optimization)
- 2000-2002: unit coordinator, PRIN-RAMON (Reconfigurable Access Module for mobile computing applications)

Private Research grants (list limited to 2007-2013)

- 2013, NEC Euro-Labs, on scalable DPI
- 2013, SSI Italy, on Data Centric Security and attribute based encryption for DDS
- 2011, NEC Euro-Labs, on VoIP Spam detection
- 2009, DoCoMo Euro-Labs, on Cross-layer video support over WLAN
- 2008, DoCoMo Euro-Labs, on Security in eMBMS
- 2007-2008: U. Palermo on WLAN performance issues
- 2007-today: various contracts with, or professional services / research support to: Telecom Italia, Crypto-Alarm s.r.l., Space Software Italia, Lottomatica, etc

patents

- 2016, filed EU/US patent on open packet processing architectures with CNIT
- 2014, filed ITA/EU patent on state management in OpenFlow (granted 2018)
- 2014, filed EU patent on method for scalable DPI with NEC Europe (granted 2018)
- 2013, filed US patent US13/907543: METHOD OF CHANGING THE OPERATION OF WIRELESS NETWORK NODES,, with I. Tinnirello, D. Garlisi, F. Giuliano, F. Gringoli, P. Gallo
- 2012, filed EU patent PCT/EP2012/059878 "Method for identifying potentially malicious Network Elements within a network using cross-domain collaborative data sharing" with Jens Mathias Bohli, NEC Europe; publication # WO2013174447 A1 (28/11/2013).
- 2008, IT-TO20080778, on wireless mesh systems (italian: "Rete wireless di comunicazione mobile con rilevazione e affiliazione di nodi estranei e relativi metodi di esplorazione e richiesta di affiliazione"), with C. Armani, P. Porzio Giusto, P. Loreti, F. Mazzenga.
- 2008, IT-TO20080926 on group learning in switched networks (italian: "Metodo di apprendimento di gruppo per una rete avente topologia ad albero"), with C. Armani, N. Legato, P. Loreti.

Keynotes, plenary talks

(updated up to 2016)

- 2016, ICUMT, Lisbon, Oct 18-20, "Data Plane programmability: the next step in Software Defined Networking"
- 2016, DCNET, Lisbon, July 28, "Revisiting control/data plane separation in SDN"
- 2016, ICETE, Hammamet, May, "Revisiting control/data plane separation in SDN"
- 2015, ITaS 2015, Sochi (Russia), "Network Programmability: A Holistic Perspective"
- 2015, IEEE IWCMC, Dubrovnik (Croatia), "Network Programmability: A Holistic Perspective"
- 2014, IEEE CAMAD 2014, Athens, joint talk/tutorial with A. Capone, From dumb to smarter switches in software defined networks: an overview of data plane evolution
- 2014, 7th IEEE/IFIP WMNC, Villamoura, Portugal, Title "Wireless Programmability"
- 2013, Wiflex, Kaliningrad, Russia, "Platform-agnostic Wireless Programmability"
- 2013, IEEE IWCMC, Cagliari, Italy, "Title: Wireless MAC layer reconfigurability (from a software-defined networking perspective)"
- 2013, IEEE WONS, Banff, Canada, "Wireless Programmability from an SDN perspective"
- 2012, IEEE WONS, Courmayeur, "Wireless MAC processors"

- 2011, IITP Information Technology and Systems, Gelenzhik, Russia, "Tools and models for real-time analysis of massive streaming data"
- 2011, Int. Workshop on network science, Maynooth, Ireland, "Tools and models for real-time analysis of massive streaming data"
- 2008, MACOM, St. Petersburg, Russia, "Vendor-affected" WLAN Experimental Results: a Pandora's Box?"
- 2008, YICGG, Roma, "Privacy versus Utility and Control: a false dichotomy?"
- 2007, WONS, Austria, "Privacy in pervasive computing: issues and challenges"
- 2007, IEEE ExponWireless 2007, Buffalo, USA, "Surprises in Experimental Assessment of Wireless LAN networks"
- 2004, IEEE CSNDSP 2004, "research challenges in WLAN/WMAN".

Panels

- **(updated up to 2016)**
- 2016, ACM MobiHoc, Paderborn, DE, "internet of things or Internet of Dreams?"
- 2013, IEEE CCW Computer Communication Workshop, panelist in "Future Internet" and in "Future Wireless"
- 2012, IEEE ICC User-Centric Networking workshop U-NET, Ottawa, Canada
- 2011, IEEE WCNC, Cancun, Mexico, "Future Wireless Internet"
- 2010, ISWPC, Modena, Italy, "Social implications of wireless pervasive computing: the research community perspective"
- 2009, IEEE IWCLD, Palma de Mallorca, "The role of Cross-Layer in the Future Wireless Internet"
- 2008, Italy-Korea future wireless Internet Workshop, Seoul, Korea, "Wireless evolutions towards the Internet of the future: which next step?"
- 2005, WiCon, Budapest, Hungary, "Wireless Internet access infrastructures: where are we heading to?"
- 2004, ACM WMASH, Philadelphia, USA, "Beyond Hot-Spots: Evolution of the WLAN Access Infrastructures"

Invited Talks

At European Commission events (list limited to 2007+, updated up to 2012)

- 2012, Berlin, EU workshop on Cooperative Security and Privacy
- 2012, Brussels, Future Internet Cluster, Wireless Programmability (pres + panel)
- 2009, Bruxelles, EU workshop on Future Internet Design
- 2008, Napoli, Int. Workshop on ongoing initiatives in large scale resilient computer systems
- 2007, EuroTrustAMI, Sophia Antipolis

At Universities, research centers, companies (list limited to 2007+, updated up to 2016)

- 2016, Taiwan, three talks at Academia SINICA (Distinguished Lecture Series), NCTU, and NTUST
- 2016, at IBM Cybersecurity centre Be'er Sheva Israel
- 2015, tutorial at 1st IEEE ComSoc PhD summer school, Trento, IT
- 2015, at INRIA Distinguished Lectures series
- 2014, Intel (multiple sites, via Lync)
- 2013, InterDigital, Melville, USA
- 2013, Technical University of Berlin
- 2013, German PhD summerschool
- 2011, MIT, Boston, USA
- 2011, Hamilton Institute, Maynooth national university, Ireland
- 2011, KTH, Stockholm, Sweden
- 2011, Aalborg University, Aalborg, Denmark
- 2010, Pisa S. Anna University, Pisa, Italy
- 2008, Carlos Terziero University, Madrid, Spain
- 2008, Universidad Nacional Autonomas of Mexico (UNAM)
- 2008, LG Electronics, Seoul, Korea
- 2008, NIST, Washington
- 2008, Telecommunication Mathematics Research Center, Korea University
- 2008, Seoul National University, Korea
- 2007, Hamilton Institute, Maynooth national university, Ireland

National public talks (list limited to 2007+, updated up to 2012)

- 2011, Italian Privacy Authority, talk: "Data access control and protection: the emerging Copernican revolution?"
- 2011, AICT Security in advanced technologies, talk: "Monitoring versus confidentiality: a false dichotomy?"
- 2010, National meeting of the Telecommunications and Information Theory Group, talk: "security and privacy: opportunities and challenges for the TLC community"
- 2009, PASION workshop, talk: "Privacy technologies"
- 2008, Governmental Public Administration forum, talk: "Community Wireless Networks (and open access wireless infrastructures)"

Thesis advisor *Giuseppe Bianchi has been advisor of more than 200 master thesis at Polytechnic of Milan (1991-1998), University of Palermo (1998-2004) and University of Roma Tor Vergata (2004+), and of 16 PhD students including:*

- Ilenia Tinnirello (PhD 2002, currently Associate prof. at University of Palermo)
- Giovanni Neglia (PhD 2003, currently Senior Researcher at INRIA)
- Vincenzo Mancuso (PhD 2003, currently at IMDEA, position equivalent to associate Prof.)
- Domenico Giustiniano (PhD 2006, currently at IMDEA, position equivalent to associate Prof.)
- Vincenzo Falletta (PhD 2008, currently post-doc research fellow at Univ. Trento)
- Simone Teofili (PhD 2009, Currently Italian Police)
- Marco Bonola (PhD 2010, currently unlimited time senior researcher at CNIT)
- Francesco Saverio Proto (PhD 2010, currently Swiss Research network SWITCH)
- Claudio Pisa (PhD 2011, currently at Italian research Network GARR)
- Alberto Caponi (PhD 2011, currently Cybersecurity researcher at Italian Space Agency)
- Marco Giuntini (PhD 2011, currently DevOps Engineer at ING Amsterdam)
- Arjana Trkulija (PhD 2012, currently Cybersecurity Manager, Dubai)
- Paolo Pileggi (PhD 2012, currently researcher at TNO, Holland)
- Hanieh Rajabi (PhD 2013, currently cloud engineer at Switch, CH)
- Alessandro Greco (PhD 2016, currently cybersecurity expert, Italy)
- Chiara Carusi (PhD 2019, currently Data Science expert at Ministry of Finance, Italy)
- Valerio Visconti (PhD 2019, currently Cybersecurity officer)
- Pietro Russo (PhD 2020, currently Cybersecurity officer at Italian Army)
- Stanislav Abaimov (PhD 2020, currently PostDoc, City University, London, UK)

Current PhD students:

- Valerio Bruschi – started 2018 (Exp. 2022)
- Angelo Tulumello – Started 2019 (Exp. 2023)
- Giacomo Belocchi – Started 2019 (Exp. 2023)
- Marco Faltelli – Started 2019 (Exp. 2023)
- Marco Spaziani Brunella – Started 2019 (Exp. 2023)
- Giorgio Bernardinetti – Started 2019 (Exp. 2023)
- Alessandro Palumbo – Started 2019 (Exp. 2023)

Peer reviewed Journal publications

(updated mar 2019)
1993-2000: 12
2001-2010: 20
2011-2018: 32
2019+: 13
Total: 77

- [J20b] K. Papadamou, S. Zannettou, B. Chifor, S. Teican, G. Gugulea, A. Caponi, A. Recupero, C. Pisa, G. Bianchi, S. Gevers, C. Xenakis, M. Sirivianos, Killing the Password and Preserving Privacy With Device-Centric and Attribute-Based Authentication, IEEE Transactions on Information Forensics and Security, Volume 15, 2020.
- [J20a] G Bianchi, M Welzl, A Tulumello, F Gringoli, G Belocchi, M Faltelli, S. Pontarelli, XTRA: Towards Portable Transport Layer Functions, IEEE Transactions on Network and Service Management, 2020 to appear
- [J19I] T Dargahi, A Dehghantanha, PN Bahrami, M Conti, G Bianchi, L. Benedetto, A Cyber-Kill-Chain based taxonomy of crypto-ransomware features, Journal of Computer Virology and Hacking Techniques 15 (4), 277-305, 2019
- [J19k] P Loreti, L Bracciale, G Bianchi, StableSENS: Sampling Time Decision Algorithm for IoT Energy Harvesting Devices, IEEE Internet of Things Journal, vol. 6(6), 2019
- [J19j] S Abaimov, G Bianchi, CODDLE: Code-Injection Detection With Deep Learning, IEEE Access 7, 128617-128627, 2019
- [J19i] AS Cacciapuoti, M Caleffi, F Tafuri, FS Cataliotti, S Gherardini, G Bianchi, Quantum Internet: networking challenges in distributed quantum computing, IEEE Network 2019
- [J19h] P Russo, A Caponi, M Leuti, G Bianchi, A Web Platform for Integrated Vulnerability Assessment and

- Cyber Risk Management, Information 10 (7), 242, 2019
- [J19g] RG Cheng, Z Becvar, YS Huang, G Bianchi, R Harwahyu, Two-Phase Random Access Procedure for LTE-A Networks, IEEE Transactions on Wireless Communications 18 (4), 2374-2387, 2019
- [J19f] C Carusi, G Bianchi, A look at interdisciplinarity using bipartite scholar/journal networks, Scientometrics, 1-28, 2019
- [J19e] Linguaglossa L; Lange S; Pontarelli S; Rétvári G; Rossi D; Zinner T; Bifulco R; Jarschel M; Bianchi G, Survey of Performance Acceleration Techniques for Network Function Virtualization, Proceedings of the IEEE, vo. 107(4), 2019
- [J19d] C Carusi, G Bianchi, Scientific community detection via bipartite scholar/journal graph co-clustering, Journal of Informetrics, 13(1), 354-386, 2019
- [J19c] R Harwahyu, RG Cheng, WJ Tsai, JK Hwang, G Bianchi, Repetitions vs Retransmissions: Trade-off in Configuring NB-IoT Random Access Channels, IEEE Internet of Things Journal, vol. 6(2), 2019
- [J19b] Giuseppe Bianchi, Tooska Dargahi, Alberto Caponi, Mauro Conti, Intelligent conditional collaborative private data sharing, Future Generation Computer Systems, 2019
- [J19a] S Pontarelli, M Bonola, G Bianchi Smashing OpenFlow's "atomic" actions: Programmable data plane packet manipulation in hardware, International Journal of Network Management, 29(1), 2019
- [J18f] S Sciancalepore, G Piro, D Caldarola, G Boggia, G Bianchi, On the design of a decentralized and multi-authority access control scheme in federated and cloud-assisted Cyber-Physical Systems, IEEE Internet of Things Journal, vol. 5(6). (2018)
- [J18e] C Carusi, G Bianchi, L Bracciale, An online approach for joint task assignment and worker evaluation in crowd-sourcing, Pervasive and Mobile Computing 50, 94-113 (2018)
- [J18d] E Khorov, A Kiryanov, A Lyakhov, G Bianchi, A Tutorial on IEEE 802.11 ax High Efficiency WLANs, IEEE Communications Surveys & Tutorials, vol. 21(1), (2019)
- [J18c] M. Ajmone Marsan, G. Bianchi, N. Blefari Melazzi, Living and Fluid Networks: the way ahead? Elsevier Computer Communications (2018)
- [J18b] S. Di Domenico, M. De Sanctis, E. Cianca, F. Giuliano, G. Bianchi: Exploring Training Options for RF Sensing Using CSI. IEEE Communications Magazine 56(5): 116-123 (2018)
- [J18a] P.Y. Lee, C.M. Yu, T. Dargahi, M. Conti, G. Bianchi, MDSClone: Multidimensional Scaling Aided Clone Detection in Internet of Things. IEEE Trans. Information Forensics and Security 13(8): 2031-2046 (2018)
- [J17e] T Dargahi, A Caponi, M Ambrosin, G Bianchi, M Conti, A Survey on the Security of Stateful SDN Data Planes, IEEE Communications Surveys & Tutorials (2017)
- [J17d] S Sciancalepore, G Piro, G Boggia, G Bianchi, Public Key Authentication and Key agreement in IoT devices with minimal airtime consumption, IEEE Embedded Systems Letters, (9)1, 1-4 (2017)
- [J17c] M Bonola, G Bianchi, G Picierro, S Pontarelli, M Monaci, StreaMon: a data-plane programming abstraction for Software-defined Stream Monitoring, IEEE Transactions on Dependable and Secure Computing, 14(6): 664-678, 2017
- [J17b] G. Ateniese, G. Bianchi, A. T. Caposelle, C. Petrioli, D. Spenza, Low-Cost Standard Signatures for Energy-Harvesting Wireless Sensor Networks. ACM Trans. Embedded Comput. Syst. 16(3): 64:1-64:23 (2017)
- [J17a] A. Checco, G. Bianchi, D. J. Leith: BLC: Private Matrix Factorization Recommenders via Automatic Group Learning, ACM Transactions on Privacy and Security, 20(2): 4:1-4:25 (2017)
- [J16e] G. Neglia, M. Sereno, G. Bianchi: Geographical Load Balancing across Green Datacenters: A Mean Field Analysis. SIGMETRICS Performance Evaluation Review 44(2): 64-69 (2016)
- [J16d] G Bianchi, E. Biton, N. Blefari-Melazzi, I. Borges, L. Chiaraviglio, P. de la Cruz Ramos, P. Eardley, F. Fontes, M. J. McGrath, L. Natarianni, D. Niculescu, C. Parada, M. Popovici, V. Riccobene, S. Salsano, B. Sayadi, J. Thomson, C. Tselios, G. Tsolis: "Superfluidity: a flexible functional architecture for 5G networks", Transactions on Emerging Telecommunications Technologies 27 (9), 1178-1186 (2016)
- [J16c] L Bracciale, P Loreti, G Bianchi, "The sleepy bird catches more worms: revisiting energy efficient neighbor discovery", IEEE Transactions on Mobile Computing 15 (7), 1812-1825 (2016)
- [J16b] M Bonola, L Bracciale, P Loreti, R Amici, A Rabuffi, G Bianchi, "Opportunistic communication in smart city: Experimental insight with small-scale taxi fleets as data carriers", Ad Hoc Networks 43, 43-55 (2016)
- [J16a] G Bianchi, L Bracciale, K Censor-Hillel, A Lincoln, M Médard, "The one-out-of-k retrieval problem and Linear Network Coding", Advances in Mathematics of Communications 10 (1), 95-112 (2016)
- [J15c] P Serrano, A Garcia-Saavedra, G Bianchi, A Banchs, A Azcorra, "Per-frame energy consumption in 802.11 devices and its implication on modeling and design", IEEE/ACM Trans. on networking 23(4), 1243-1256 (2015)
- [J15b] G Bianchi, L Bracciale, K Censor-Hillel, A Lincoln, M Médard, "The One-Out-of-k Retrieval Problem and Linear Network Coding", Coding Theory and Applications, 61-75 (2015)
- [J15a] C. H. Wei, G. Bianchi, R. G. Cheng, "Modeling and Analysis of Random Access Channels With Bursty Arrivals in OFDMA Wireless Networks", IEEE Trans. on Wireless Commun. 14 (4), 1940-1953 (2015)
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- [J14b] N. Blefari-Melazzi, G. Bianchi, A. Capone, A. Detti, A General, Tractable and Accurate Model for a Cascade of LRU Caches, IEEE Communications Letters 18 (5), 877-880 (2014)
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