

Giuseppe Bianchi

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Research interests Networking & Internet, Wireless Networks, Security and privacy, monitoring & measurement, performance modeling, emerging Internet services

Bibliometric summary data

- Total international publications (peer reviewed + others): ~180 (as of May 2013)
- Total citations: 9962 (as of Dec 2013, source scholar.google.com)
- Top cited paper: 6309 (as of Dec 2013, source scholar.google.com)
- H-index: 26 (as of Dec 2013, source scholar.google.com)

Education

- 1991, Post-Laurea specialization degree in Information Technology, CEFRIEL
- 1990, Laurea degree, Electronic Engineering (math/physics track), Politecnico di Milano

Principal Position

- 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

- 2010- today Chair of the Bachelor/Master Programme in Internet technology engineering (formerly Telecommunications engineering) Univ. Roma Tor Vergata
- 2012-2014 Member of GTTI Board
- 2014-2016 Member of CNIT executive committee (Consiglio di amministrazione)

Past Additional Positions

- 2008-2010 Chair of the PhD Programme in Telecommunications and microelectronics, Univ. Roma Tor Vergata
- 2008-2013 Scientific director of CNIT research Unit Roma Tor Vergata
- 2008-2013 Member of CNIT Scientific Board

Visiting Positions

- 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 Researcher, Washington University, St. Louis, Missouri, USA (hosted by Prof. J. S. Turner)

Professional services

Editor

- 2010-today: IEEE Transactions on Networking
- 2008-today: Elsevier Computer Communications
- 2012-today: IEEE Transactions on Wireless Communications (area editor)

Guest Editor

- 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

- 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

- 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 2007+)

- IEEE INFOCOM 2007, 2008, 2009, 2010, 2010-WiP, 2013
- ACM CONEXT 2009, 2010, 2012, 2014
- ACM MOBICOM 2014
- IEEE CNS 2013
- IEEE SECON 2007, 2008, 2009, 2010, 2011, 2012
- ITC 2010, 2012, 2013, 2014
- IEEE WoWMoM 2007, 2008, 2009, 2011, 2012, 2013, 2014
- IEEE LCN 2009, 2010
- IEEE ICC 2008-ANI, 2009-AHSN, 2010-AHSN
- IEEE GLOBECOM 2007-WC, 2010-AHSN
- IEEE VTC 2009-spring
- ICCCN 2007
- IEEE/IFIP WONS 2007, 2009, 2010, 2011, 2012
- IEEE IMSAA 2009
- IEEE ISCC 2011
- IWCMC 2007
- IEEE IT-NEWS (QoS-IP) 2008
- ISWPC 2010
- WICON 2008
- INGRID 2008, 2009, 2010

Technical Program Committee Member – int. workshops (list limited to 2007+)

- ACM SIGCOMM SRIF 2014
- IEEE MediaWin 2007, 2009, 2009, 2010
- IEEE BWA 2008, 2009, 2010, 2011
- WIRELESS4D 2008
- MACOM 2009, 2010, 2011, 2014
- European Wireless 2010, special sessions 2010
- HOTMESH 2009
- IEEE MeshTech 2007, 2008, 2009, 2010, 2011
- RABAN 2010, 2011

Research project evaluation

- For MIUR, Italy
- For A-STAR and NRF, Singapore
- For ANR (French National Agency for Research), France
- For Science Foundation Ireland, Ireland
- For University of Padova, Italy
- For University of Palermo, Italy

Teaching

Current

- Network security
- Networking fundamentals

Past

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

Large international project coordination

- 2010-2013: General Coordinator, EU STREP project FP7-FLAVIA (on programmable wireless networks); EU objective 1.1 (the network of the Future), 11 partners, total grant ~5.3M\$, own unit grant ~950K\$
- 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 ~7.2M\$, own unit grant ~900K\$
- 2008-2010: Technical Coordinator, EU STREP project FP7-PRISM (on privacy-preserving network monitoring), EU objective 1.4 (Trustworthy Internet), 9 partners, total grant ~3.1M\$, own unit grant ~800K\$
- 2006-2008: General Coordinator, EU STREP Project FP6-DISCREET (privacy in smart environments), EU objective 1.4 (Trustworthy Internet), 10 partners, total grant ~3.2M\$, own unit grant ~650K\$

Grants & Projects

International projects (as proponent/research unit coordinator)

- 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 (Platform for Open, Light, Legible & Efficient Network Services)

International projects (as research collaborator)

- 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 centrality)

- 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 (Towards Enhancing 802.11 support of differentiated service Levels)
- 2002-2005: unit coordinator, FIRB-PRIMO (reconfigurable platforms for broadband wireless communications)
- 2002-2004: unit coordinator, FIRB-VICOM (Virtual Immersive Communications)
- 2002-2004: unit coordinator, FIRB-TANGO (Traffic Algorithms for Next Generation network Optimization)
- 2000-2002: unit coordinator, PRIN-RAMON (Reconfigurable Access Module for mobile computing applications)

Private Research grants (list limited to 2007+)

- 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.

patents

- 2013, filed ITA patent MI2013A000532, metodo per l'elaborazione di pacchetti di dati, inclusa la loro trasmissione usando piu' di un protocollo MAC, e nodo di rete senza fili (method for packet transmission and processing using multiple wireless MAC protocols), with I. Tinnirello, D. Garlisi, F. Giuliano, F. Gringoli, P. Gallo
- 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 on a method for data sharing with NEC Europe
- 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**

- 2014, 7th IEEE/IFIP WMNC, Portugal, Title TBD
- 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

- 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+)*

- 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+)

- 2013, InterDigital, Melville, USA
- 2013, Technical University of Berlin
- 2013, German PhD summerschool
- 2011, MIT, Boston, USA
- 2011, Hamilton Institute, Mayhoo national university, Ireland
- 2011, KTH, Stockholm, Sweden
- 2011, Aalborg University, Aalborg, Denmark
- 2010, Pisa S. Anna University, Pisa, Italy
- 2008, Carlos III 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, Mayhoo national university, Ireland

National public talks (list limited to 2007+)

- 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, PASON workshop, talk: “Privacy technologies”
- 2008, Governmental Public Administration forum, talk: “Community Wireless Networks (and open access wireless infrastructures)”

**Peer
reviewed
Journal
publications**

- [J13c] P. Gallo, D. Garlisi, F. Giuliano, F. Gringoli, I. Tinnirello, G. Bianchi (2013). Wireless MAC Processor Networking: a control architecture for expressing and implementing high-level adaptation policies in WLANs. *IEEE Vehicular Technology Magazine*, ISSN: 1556-6072, Dec. 2013
- [J13b] G. Bianchi, A. Caposelle, C. Petrioli, D. Spenza, "AGREE: exploiting energy harvesting to support data-centric access control in WSNs", *Ad Hoc Networks, Special Issue on Security, Privacy and Trust Management in the Internet of Things era*, 11(8): 2625-2636 (2013)
- [J13a] M. Natkaniec, K. Kosek-Szott, S. Szott, G. Bianchi, "A Survey of Medium Access Mechanisms for Providing QoS in Ad-Hoc Networks", *IEEE Communications Surveys and Tutorials*, 15(2): 592-620 (2013)
- [J12b] S. Pontarelli, G. Bianchi, S. Teofili, Traffic-aware Design of a High Speed FPGA Network Intrusion Detection System, *IEEE Transactions of Computers*, 62(11): 2322 – 2334 (2013).
- [J12a] M. Dusi, N. d'Heureuse, F. Huici, A. di Pietro, N. Bonelli, G. Bianchi, B. Trammell, S. Niccolini, "Blockmon: Flexible and High-Performance Big Data Stream Analytics Platform and its Use Cases", *NEC Technical Journal*, Vol. 7, no. 2, 2012, pp. 102-106.
- [J11c] G. Bianchi, N. D'Heureuse, S. Niccolini, "On-demand time-decaying bloom filters for telemarketer detection", *SIGCOMM Computer Commun. Review* 41, 5 pp. 5-12, 2011.
- [J11b] S. Niccolini, F. Huici, B. Trammell, G. Bianchi, F. Ricciato, Building a decentralized, cooperative, and privacy-preserving monitoring system for trustworthiness: the approach of the EU FP7 DEMONS project [Very Large Projects], *IEEE Communications Magazine*, Vol. 49, Issue 11, pp 16-18, 2011.
- [J11a] G. Bianchi, "Revisiting an identification-free RFID Batch Authentication Approach", *IEEE Communications Letters*, Volume 15, Issue 6, pp. 632-634, June 20, 2011
- [J10a] I. Tinnirello, G. Bianchi, "Interference Estimation in IEEE 802.11 Networks: a Kalman Filter Approach for Evaluating Congestion in Error-Prone Links", *IEEE Control Systems Magazine*, 2010.
- [J09d] G. Bianchi, N. Blefari Melazzi, L. Bracciale, F. Lo Piccolo, S. Salsano, "Streamline: An Optimal Distribution Algorithm for Peer-to-Peer Real-time Streaming", *IEEE Trans. on Parallel and Distributed Systems*, 2009
- [J09c] I. Tinnirello, G. Bianchi, "Rethinking the IEEE 802.11e EDCA Performance Modeling Methodology", *IEEE/ACM Transactions on Networking*, 2009.
- [J09b] I. Tinnirello, G. Bianchi, Y. Xiao, "Refinements on IEEE 802.11 Distributed Coordination Function Modeling Approaches", *IEEE Transactions on Vehicular Technology*, 59(3), 2010, pp. 1055 – 1067.
- [J09a] D. Giustiniano, I. Tinnirello, L. Scalia, G. Bianchi, "On the side-effects of proprietary solutions for fading and interference mitigations in IEEE 802.11b/g outdoor links, *Computer Networks*, Volume 53, Issue 2, February 2009, pp. 141-152, ISSN 1389-1286
- [J08b] Simone Teofili, Michele Di Mascolo, Cristina Basile, Giuseppe Bianchi, Stefano Salsano, Alf Zugenmaier: User plane security alternatives in the 3G evolved Multimedia Broadcast Multicast Service (e-MBMS). *Security and Communication Networks* 1(6): 473-485 (2008)
- [J08a] G. Bianchi, M. Bonola, V. Falletta, S. Proto, S. Teofili, "The SPARTA Pseudonym and Authorization System", *Science of Computer Programming*, Elsevier, Volume 74, Issue 1-2, Dec. 2008, pp. 23-33
- [J07a] J. W. Tantra, C. H. Foh, I. Tinnirello, G. Bianchi, "Out-of-Band Signaling Scheme for High Speed Wireless LANs", *IEEE Trans. on Wireless Commun.*, Vol. 6, Issue 9, September 2007, pp. 3256 - 3267
- [J06a] L. Scalia, I. Tinnirello, G. Bianchi, "MAC Parameters Tuning for Best Effort Traffic in 802.11e Contention-Based Networks", *The Mediterranean Journal of Computers and Networks – Special issue on Performance Analysis, Modelling and Optimization of Wireless Communications*, Volume 2, No. 1, January 2006, ISSN: 1744-2397, pp. 1-9.
- [J05c] G. Neglia, V. Falletta, G. Bianchi, "An Analytical Model of a new Packet Marking Algorithm for TCP flows", *Elsevier Computer Networks*, Volume 50, Issue 8, 6 June 2006, Pages 1176-1191, special issue on best papers from QoS-IP 2005.
- [J05b] G. Bianchi, I. Tinnirello, "Remarks on IEEE 802.11 Performance Analysis", *IEEE Communication letters*, Volume 9, Issue 8, August 2005, pp. 765-767.
- [J05a] G. Bianchi, L. Scalia, I. Tinnirello, "Understanding 802.11e contention-based prioritization mechanisms and their coexistence with legacy 802.11 stations", *IEEE Network*, Vol. 19, Issue 4, July-August 2005.
- [J04a] V. Mancuso, G. Bianchi, "Streaming for vehicular users via elastic proxy buffer management", *IEEE Communications Magazine*, Volume 42, Issue 11, Nov. 2004, pp. 144 – 152.
- [J03d] G. Bianchi, I. Tinnirello, "Channel-Dependent Load Balancing in Wireless Packet Networks", *Wireless Communications and Mobile Computing*, special issue on performance evaluation of wireless networks, John Wiley & Sons, Ltd., February 2004, Vol. 4, no. 1, pp. 43-53.
- [J03c] G. Bianchi, I. Tinnirello, G. Conigliaro, "Design and Performance Evaluation of an Hybrid Reservation-Polling MAC Protocol for Power-Line Communications", *Int. J. Comm. Systems*, special issue on powerline communications and applications, John Wiley & Sons, 2003, vol. 16, no. 5, pp. 427-445.
- [J03b] G. Bianchi, N. Blefari-Melazzi, G. Bonafede, E. Tintinelli, "QUASIMODO: QUALity of Service-aware Multicasting Over DiffServ and Overlay networks", *IEEE Network*, special issue on "Multicasting: An Enabling Technology", January-February 2003, pp. 2-9
- [J03a] G. Bianchi, N. Blefari-Melazzi, P.M.L. Chan, M. Holzbock, Y.F. Hu, A. Jahn, R.E. Sheriff: "Design and Validation of QoS Aware Mobile Internet Access Procedures for Heterogeneous Networks", *ACM Mobile Networks and Applications (MONET)*, Kluwer, Vol. 8, no. 1, January-February 2003, pp. 11-25.
- [J02b] G. Bianchi, N. Blefari-Melazzi, M. Femminella, "Per-flow QoS Support over a Stateless DiffServ Domain", *Computer Networks*, Elsevier, special issue on "Towards a New Internet Architecture", Vol. 40, Issue 1, September 2002, pp. 73 – 87.
- [J02a] G. Bianchi, F. Borgonovo, A. Capone, L. Fratta, C. Petrioli, "Endpoint Admission Control with Delay Variation Measurements for QoS in IP Networks", *ACM SIGCOMM Computer Communication Review (CCR)*, Vol. 32, no. 2, April 2002, pp. 61-69.

- [J01a] M. E. Kounavis, A. T. Campbell, G. Ito, G. Bianchi, "Design, Implementation and Evaluation of Programmable Handoff in Mobile Networks", ACM Mobile Networks and Applications (MONET), vol. 6, no. 5, September 2001, pp. 443-461.
- [J00c] G. Bianchi, A. Capone, C. Petrioli, "Packet management techniques for measurement based end-to-end admission control in IP networks", KICS/IEEE Journal of Communications and Networking, Vol. 2, No. 2, June 2000, pp. 147-156.
- [J00b] G. Bianchi, "Performance Analysis of the IEEE 802.11 Distributed Coordination Function", JSAC Wireless series, Vol. 18, no. 3, March 2000, pp. 535-547.
- [J00a] G. Bianchi, A. T. Campbell, "A Programmable MAC framework for Utility-based Adaptive Quality of Service Support", IEEE J. Selected Areas in Telecommun, Vol. 18, No. 2, February 2000, pp. 244-255.
- [J99a] G. Bianchi, R. Melen, "Effects of Multiple Node Crossing on ATM Traffic Performance", European Transaction on Telecommunications, Vol. 10, No. 1, January-February 1999, pp. 5-12.
- [J98a] G. Bianchi, "IEEE 802.11: Saturation Throughput Analysis", IEEE Commun. Letters, Vol. 2, No. 12, Dec. 1998, pp. 318-320.
- [J97b] G. Bianchi, R. Melen, "The Role of Local Storage in supporting Video Information Retrieval in ATM networks", IEEE/ACM Transactions on Networking, Vol. 5, No. 6, December 1997, pp. 882-892.
- [J97a] G. Bianchi, F. Borgonovo, L. Fratta, L. Musumeci, M. Zorzi, "C-PRMA: a Centralized Packet Reservation Multiple Access for Local Wireless Communications", IEEE Transactions on Vehicular Technology, Vol. 46, no. 2, May 1997, pp. 422-436.
- [J96c] G. Bianchi, R. Melen, "Performance and Dimensioning of a Hierarchical Video Storage Network for Interactive Video Services", European Transactions on Telecommunications, Vol. 7, No. 4, July-August 1996, pp. 349-358.
- [J96b] F. Borgonovo, M. Zorzi, L. Fratta, V. Trecordi, G. Bianchi, "The Capture-Division Packetized Access (CDPA) for Wireless Personal Communications", IEEE Journal on Selected Areas in Communications, Vol. 14, No. 4, May 1996, pp. 609-622.
- [J96a] G. Bianchi, A. Pattavina, "Architectures and performance of Non-Blocking ATM switches with Shared Internal Queueing", Computer Networks and ISDN Systems, Vol. 28, No. 6, April 1996, pp. 835-853.
- [J94a] G. Bianchi, V. Trecordi, "Simple Bandwidth Management Scheme for Multiservice ATM Networks", International Journal of Communication Systems, Vol. 7, No. 4, Oct.-Dec. 1994, pp. 265-273.
- [J93a] G. Bianchi, J.S. Turner, "Improved Queueing Analysis of Shared Buffer Switching Networks", IEEE Transaction on Networking, Vol. 1, No. 4, August 1993, pp. 482-490.

Peer-reviewed conference & workshop publications

- [C13h] D. Garlisi, F. Giuliano, I. Tinnirello, P. Gallo, F. Gringoli, G. Bianchi, "Deploying Virtual MAC Protocols Over a Shared Access Infrastructure Using MACLETS", IEEE INFOCOM 2013 Demo, Turin, Italy, April 14-19, 2013.
- [C13g] P. Gallo, D. Garlisi, F. Giuliano, F. Gringoli, I. Tinnirello, G. Bianchi, "A Control Architecture for Wireless MAC Processor Networking" EU Future Internet and Mobile Summit, 2013, **best paper award (1 out of approx. 150)**
- [C13f] F. Gringoli, N. Facchi, P. Gallo, D. Garlisi, F. Giuliano, G. Bianchi, Enabling cognitive-radio paradigm on commercial off-the-shelf 802.11 hardware, Demo, 8th ACM international workshop on Wireless network testbeds, experimental evaluation & characterization, pp. 95–96, 2013
- [C13e] G. Bianchi, I. Tinnirello, One size hardly fits all: towards context-specific wireless MAC protocol deployment, Proc. of the 8th ACM international workshop on Wireless network testbeds, experimental evaluation & characterization, pp. 1-8, 2013
- [C13d] L. Bracciale, P. Loreti, G. Bianchi, Human time-scale duty cycle for opportunistic WiFi based mobile networks, 24th IEEE Tyrrhenian International Workshop on Digital Communications-Green ICT (TIWDC), 2013
- [C13c] P. Loreti, R. Paolillo, M. Orru, C. Pisa, G. Bianchi, "Intermodule data sharing for flexible wireless MAC", 21st IEEE International Conference on Software, Telecommunications and Computer Networks (SoftCOM), 2013, pp. 1--6, 2013
- [C13b] A. Detti, A. Caponi, G. Tropea, G. Bianchi, N. Blefari-Melazzi, "On the Interplay among Naming, Content Validity and Caching in Information Centric Networks", IEEE Globecom 2013, December 9-13, Atlanta, GA, USA.
- [C13a] G. Ateniese, G. Bianchi, A. Caposelle, C. Petrioli, "Low-cost Standard Signatures in Wireless Sensor Networks: A Case for Reviving Pre-computation Techniques?", 20th Annual Network & Distributed System Security Symposium (NDSS 2013).
- [C12h] A. Garcia-Saavedra, P. Serrano, A. Banchs, G. Bianchi: Energy consumption anatomy of 802.11 devices and its implication on modeling and design. CoNEXT 2012: 169-180
- [C12g] G. Bianchi, P. Gallo, D. Garlisi, F. Giuliano, F. Gringoli, I. Tinnirello: MAClets: active MAC protocols over hard-coded devices. CoNEXT 2012: 229-240
- [C12f] G. Bianchi, P. Loreti, A. Trkulja: Let me grab your App: Preliminary proof-of-concept design of opportunistic content augmentation. ICC 2012: 7034-7039
- [C12e] G. Bianchi, L. Bracciale, P. Loreti: "Better Than Nothing" Privacy with Bloom Filters: To What Extent? Privacy in Statistical Databases 2012: 348-363
- [C12d] P. Gallo, A. Krasilov, A. Lyakhov, I. Tinnirello, G. Bianchi, Breaking Layer 2: A New Architecture for Programmable Wireless Interfaces, ICTC 2012, October 2012.
- [C12c] G. Bianchi, K. Duffy, D. Leith, V. Shneer, "Modeling Conservative Updates in Multi-Hash Approximate Count Sketches", 24th International Teletraffic Conference (ITC), Krakow, 4-7 September 2012
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