

Giacomo VERTICALE

CURRICULUM ATTIVITÀ SCIENTIFICA E DIDATTICA

Milano, 24 settembre 2013

Informazioni generali

- ✉ Politecnico di Milano
Dipartimento di Elettronica, Informazione e Bioingegneria
piazza Leonardo da Vinci 32
I-20133 Milano (MI)
Italy
- ☎ telefono: +39 022399 3569
- ☎ cellulare:
- ☎ fax: +39 022399 3413
- @ e-mail: giacomo.verticale@polimi.it
- 🌐 home page: home.deib.polimi.it/vertical

Luogo e data di nascita: Milano, 2 aprile 1974

Nazionalità: italiana

Lingue straniere: Inglese (ottimo)

Esperienza professionale

Politecnico di Milano / Dip. di Elettronica, Informazione e Bioingegneria

Gennaio 2005 – oggi. Ricercatore, settore Telecomunicazioni (ING-INF/03).

Novembre 2002 – dicembre 2004. Collaboratore di ricerca.

Università Tongji (Shanghai)

Novembre 2012 – Gennaio 2013. Visiting Professor.

Novembre 2010 – Gennaio 2011. Visiting Professor.

Centro di Ricerca CEFRIEL

Dicembre 1998 – aprile 2001. Collaboratore di ricerca.

Istruzione e formazione

Febbraio 2003. **Dottorato di ricerca in Ingegneria Elettronica e delle Comunicazioni**, Politecnico di Milano. Titolo della tesi: *Modelli analitici e simulativi di capacità e copertura nei sistemi cellulari UMTS.*

Dicembre 1998. **Laurea in Ingegneria delle Telecomunicazioni**, Politecnico di Milano. Titolo della tesi: *Valutazione delle prestazioni delle architetture di rete IP-over-ATM ed IP-over-SDH nella fornitura di servizi a ritardo garantito.* Votazione: 100/100 e lode.

Attività didattica

Titolare, Politecnico di Milano

A.A. 2013/2014

- Cryptography and Network Security (5 crediti). Laurea Magistrale in Ing. Telecomunicazioni. A.A. 2007/2008–oggi.
- Piattaforme Software per la Rete (5 crediti). Laurea in Ing. Telecomunicazioni. A.A. 2010/2011–oggi

A.A. precedenti

- Reti Cellulari (5 crediti). Laurea Ing. Telecomunicazioni. A.A. 2009/2010
- Fondamenti di Reti di Telecomunicazioni (5 crediti). Laurea Ing. Informatica. A.A. 2004/05 – 2006/2007

Titolare, Università di Bergamo

- Laboratorio di reti ed elettronica (modulo di reti) (3 crediti). Laurea Magistrale in Ingegneria Informatica A.A. 2012/2013

Titolare, Università Tongji di Shanghai

- Signal Theory (5 crediti). Laurea in Information Technology Engineering A.A. 2010/2011 e 2012/2013
- Communications Technology (5 crediti). Laurea in Information Technology Engineering A.A. 2012/2013

Publicazioni

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| <p>[1] Giulia Mauri e Giacomo Verticale. «Distributing Key Revocation Status in Named Data Networking». In: <i>EUNICE Workshop on Advances in Communication Networking</i>. to appear. Ago. 2013.</p> <p>[2] Cristina Rottondi e Giacomo Verticale. «Privacy-Friendly Appliance Load Scheduling in Smart Grids». In: <i>IEEE Smartgridcomm 2013</i>. to appear. Ott. 2013.</p> <p>[3] Cristina Rottondi, Giacomo Verticale e Antonio Capone. «Privacy-preserving smart metering with multiple data Consumers». In: <i>Computer Networks</i> 57.7 (2013), pp. 1699–1713. ISSN: 1389-1286.</p> <p>[4] Cristina Rottondi, Giacomo Verticale e Christoph Krauß. «Distributed Privacy-Preserving Aggregation of Metering Data in Smart Grids». In: <i>Selected Areas in Communications, IEEE Journal on</i> 31.7 (2013), pp. 1342–1354. ISSN: 0733-8716.</p> | <p>[5] Cristina Rottondi, Giacomo Verticale e Christoph Krauß. «Secure Distributed Data Aggregation in the Automatic Metering Infrastructure of Smart Grids». In: <i>IEEE International Conference on Communications (ICC 2013)</i>. Giu. 2013.</p> <p>[6] Cristina Rottondi et al. «A Decisional Attack to Privacy-friendly Data Aggregation in Smart Grids». In: <i>IEEE Globecom 2013</i>. to appear. Dic. 2013.</p> <p>[7] Sanda Drakulic, Massimo Tornatore e Giacomo Verticale. «Degradation attacks on Passive Optical Networks». In: <i>Optical Network Design and Modeling (ONDM), 2012 16th International Conference on</i>. Apr. 2012, pp. 1–6.</p> <p>[8] Paolo Giacomazzi, Igor Stanojev e Giacomo Verticale. «A negotiation-based scheme for service level pricing for wireless access». In: <i>Computer Communications</i> 35.4 (2012), pp. 444–453. ISSN: 0140-3664.</p> |
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- [9] C. Rottondi e G. Verticale. «Internet Traffic Classification Using the Index of Variability». In: *Latin America Transactions, IEEE (Revista IEEE America Latina)* 10.3 (apr. 2012), pp. 1817–1823. ISSN: 1548-0992.
- [10] C. Rottondi, G. Verticale e A. Capone. «A security framework for smart metering with multiple data consumers». In: *Computer Communications Workshops (INFOCOM WKSHPS), 2012 IEEE Conference on*. Mar. 2012, pp. 103–108.
- [11] Cristina Rottondi, Giulia Mauri e Giacomo Verticale. «A data pseudonymization protocol for Smart Grids». In: *Online Conference on Green Communications (GreenCom), 2012 IEEE*. 2012, pp. 68–73.
- [12] Cristina Rottondi et al. «Implementation of a Protocol for Secure Distributed Aggregation of Smart Metering Data». In: *IEEE International Conference on Smart Grid Technology, Economics and Policies (SG-TEP 2012)*. Dic. 2012.
- [13] C. Rottondi e G. Verticale. «Using packet interarrival times for Internet traffic classification». In: *Communications (LATINCOM), 2011 IEEE Latin-American Conference on*. Ott. 2011, pp. 1–6.
- [14] S. Bregni et al. «Using per-Source measurements to improve performance of Internet traffic classification». In: *Communications (LATINCOM), 2010 IEEE Latin-American Conference on*. Set. 2010, pp. 1–5.
- [15] Igor Stanojev, Giacomo Verticale e Paolo Giacomazzi. «A Negotiation Approach for Pricing the Wireless Access». In: *ICC 2010*. 2010.
- [16] G. Verticale. «Machine Learning». In: *Automatic Internet Traffic Classification for Early Application Identification*. InTech, set. 2010. ISBN: 978-953-7619-X-X.
- [17] F. Raineri e G. Verticale. «Early Internet Application Identification with Machine Learning Techniques». In: *Evolving Internet, 2009. INTERNET '09. First International Conference on*. Ago. 2009, pp. 60–64.
- [18] G. Verticale. «An Empirical Study of Self-Similarity in the Per-User-Connection Arrival Process». In: *Telecommunications, 2009. AICT '09. Fifth Advanced International Conference on*. Mag. 2009, pp. 101–106.
- [19] Giacomo Verticale. «A closed-form expression for queuing delay in Rayleigh fading channels using stochastic network calculus». In: *Q2SWinet '09: Proceedings of the 5th ACM symposium on QoS and security for wireless and mobile networks*. Tenerife, Canary Islands, Spain: ACM, 2009, pp. 8–12. ISBN: 978-1-60558-619-9.
- [20] Giacomo Verticale e Paolo Giacomazzi. «An Analytical Expression for Service Curves of Fading Channels». In: *Globecom 2009*. 2009.
- [21] P. Giacomazzi et al. «A statistical hybrid traffic control for IEEE 802.11e WLANs». In: *Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks and Workshops, 2008. WiOPT 2008. 6th International Symposium on*. Apr. 2008, pp. 178–183.
- [22] G. Verticale. «On the Portability of Trained Machine Learning Classifiers for Early Application Identification». In: *Emerging Security Information, Systems and Technologies, 2008. SECURWARE '08. Second International Conference on*. Ago. 2008, pp. 306–310. ISBN: 978-0-7695-3329-2.
- [23] Giacomo Verticale e Paolo Giacomazzi. «Performance evaluation of a machine learning algorithm for early application identification». In: *Computer Science and Information Technology, 2008. IMCSIT 2008. International Multiconference on*. Ott. 2008, pp. 845–849.
- [24] Giacomo Verticale e Luigi Musumeci. «Impact of Multipath Fading on the Fairness of the WiMAX System». In: *Proceedings of International Conference on the Latest Advances in Networks (ICLAN)*. Toulouse (F), dic. 2008.
- [25] Paolo Giacomazzi et al. «Analytical Methods for Resource Allocation and Admission Control with Dual-Leaky-Bucket Regulated Traffic». In: *Proceedings of IEEE International Conference on*

- Communications (ICC)*. IEEE. Glasgow (UK), giu. 2007, pp. 499–505.
- [26] Giacomo Verticale. «Fair Queuing for UMTS High-Speed Packet Access». In: *Proceedings of International Conference on the Latest Advances in Networks (ICLAN)*. Paris (F), dic. 2007.
- [27] Giuseppe Caizzone et al. «A Novel Location-Based Multicast Protocol for Ad-Hoc Networks». In: *Proceedings of PIMRC 2006*. IEEE. Helsinki (Finland), set. 2006. ISBN: 1-4244-0330-8.
- [28] Giuseppe Caizzone et al. «Quality of Service for Packet Telephony over Mobile Ad Hoc Networks». In: *IEEE Network* 20 (gen. 2006), pp. 12–20. ISSN: 0890-8044.
- [29] Paolo Giacomazzi, Luigi Musumeci e Giacomo Verticale. «An Analytical Model Based on the ETSI Criteria for the Evaluation of User Satisfaction in UMTS». In: *Springer Wireless Networks* 12.6 (dic. 2006), pp. 789–796. ISSN: 1022-0038.
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- [31] Paolo Giacomazzi et al. «Two Different Approaches for providing QoS in the Internet Backbone». In: *Elsevier Computer Communications* 29.18 (nov. 2006), pp. 3957–3969. ISSN: 0140-3664.
- [32] P. Giacomazzi et al. «Adaptive Networks». In: *Mobile Information Systems Infrastructure and Design for Adaptivity and Flexibility*. Springer, apr. 2006. Cap. 5, pp. 119–155. ISBN: 3-540-31006-1.
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- [35] Giuseppe Caizzone et al. «Performance Analysis of a Flexible MAC Protocol for Real-Time Services in Vehicular Ad-Hoc Networks». In: *Springer International Journal of Wireless Information Networks* 12.3 (lug. 2005), pp. 147–157. ISSN: 1068-9605.
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Milano, 24 settembre 2013
Giacomo Verticale