

**CURRICULUM VITAE**  
**OF**  
**MAURO FEMMINELLA**

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## Summary:

1	<i>Biographical data</i> .....	2
2	<i>Research projects</i> .....	3
3	<i>Summary of research activity</i> .....	4
4	<i>Main teaching activity</i> .....	5
5	<i>Peer review activity</i> .....	6
6	<i>Scientific publications</i> .....	6
6.1	<i>Journal papers</i> .....	6
6.2	<i>Book chapters</i> .....	8
6.3	<i>Papers in international conferences</i> .....	9
6.4	<i>Contribution to standardization bodies</i> .....	14

## 1 Biographical data

<b>1993/98:</b>	- Student of Electronic Engineering MS course at Università degli Studi di Perugia.
<b>1999:</b>	- He graduated with full score (110/110 magna cum laude) on 24 March 1999. - Contract researcher for the Dipartimento di Ingegneria Elettronica e dell'Informazione (DIEI), Università degli Studi di Perugia, for three months (April-June) - Contract researcher for the Consorzio di Ricerca sulle Telecomunicazioni (CoRiTel), Rome, for two months (September-October). - He received the award "The best MS thesis on broadcasting and multimedia via satellite" for his MS thesis from SAT EXPO, 22-25 October 1999. - Since November 1999 until September 2000, he accomplished the civil service. - Enabled as qualified engineer in November 1999.
<b>2000:</b>	- He was admitted as PhD student to the PhD program in Electronic Engineering, DIEI, Università degli Studi di Perugia, obtaining also a PhD scholarship.
<b>2002</b>	- He won a research grant (2 years) on the subject "Fast Internet for Fast Trains Hosts (FIFTH), IST-2001-39097" at the DIEI, Università degli Studi di Perugia.
<b>2003</b>	- He obtained the title of Doctor of Philosophy in Electrical Engineering on 7 February 2003.
<b>2004</b>	- He obtained a yearly extension of the research grant "Fast Internet for Fast Trains Hosts (FIFTH), IST-2001-39097".
<b>2005</b>	- He obtained another yearly extension of the research grant "Fast Internet for Fast Trains Hosts (FIFTH), IST-2001-39097".
<b>2006</b>	- Since November 2006 he is Research Fellow at DIEI, School of Engineering, Università degli Studi di Perugia

<b>2007</b>	- He received the award "Giorgio Barzilai" for his MS thesis from the Center-Southern Italy section of IEEE, 21 June 2007.
<b>2010</b>	- He received the confirmation as Research Fellow by the national committee in Telecommunications.

## 2 Research projects

Mauro Femminella actively participated in a number of research projects with different institutions, initially as member of the research team, and in last years also as project coordinator. Some of these projects have been funded through national (PRIN, FIRB) or international (EU, ESA) competitive applications. Other funding have been obtained by collaborating with local or national telecommunications companies.

- FP4 ACTS ASSET - Satellite Switching and End-to-End Trial, participation as researcher of CoRiTel, Rome.
- FP5 IST SUITED - Multi-Segment System for Ubiquitous Access to Internet Services and Demonstrator, participation as researcher of DIEI.
- FP5 IST WHYLESS.COM - Vision of an open platform for mobile, ubiquitous and seamless e-work and e-commerce based on a highly novel radio transmission, participation as researcher of DIEI.
- ESA (14956/00/NL/ND) - Transport Protocol and Resource Management for Mobile Satellite Networks, participation as researcher of CNIT.
- FP5 IST FIFTH - Fast Internet for Fast Trains Hosts, participation as researcher of Radiolabs (Consorzio Università Industria – Laboratori di Radiocomunicazioni), Roma.
- FP6 IST SIMPLICITY - Secure, Internet-able, Mobile Platforms LeadIng Citizens Towards simplicity, participation as researcher of University of Rome Tor Vergata.
- FP6 IST SATNEX - Satellite Communications Network of Excellence, participation as researcher of CNIT.
- FP6 IST EDCINE - Enhanced digital cinema, participation as researcher of DIEI.
- FP6 IST SATNEX II - Satellite Communications Network of Excellence Phase II, participation as researcher of CNIT.
- FP7 ARES (Advanced networking for the EU genomic research), accepted from an open call within GN3PLUS (Multi-Gigabit European Research and Education Network and Associated Services), participation as researcher and WP3 leader, DIEI.
- PRIN RAMON - Modulo d'Accesso Riconfigurabile per Applicazioni di Mobile Computing (Reconfigurable access module for mobile computing applications), participation as researcher of DIEI.
- PRIN TWELVE - Tecniche avanzate di accesso radio in 802.11 per il supporto di servizi differenziati (Advanced techniques for radio access in IEEE 802.11 to support differentiated services), participation as researcher of DIEI.
- FIRB PRIMO - Piattaforme riconfigurabili per comunicazioni radiomobili a larga banda (Reconfigurable platforms for wideband wireless communications), participation as researcher of DIEI.

- FIRB VICOM - Comunicazioni Immersive Virtuali (Immersive virtual communications), participation as researcher of CNIT.
- Project MIUR (art.14 DM 593/00) - Superamento delle criticità scientifiche e tecnologiche che oggi non consentono l'erogazione di servizi video su terminali UMTS e lo studio di una piattaforma NGN da laboratorio (Overcoming the scientific and technological issues which today does not allowing the provision of video services on UMTS terminals and the study of an NGN Lab platform), participation as researcher of DIEI.
- US NSF project NetServ - Enabling service virtualization at the Internet core, participation as researcher of DIEI.
- Ministero Affari Esteri, Italy-Israel project WICAST - Broadcast/multicast services for mobile WiMAX networks - budget 120 k€, funding 60 k€, DIEI, **Project coordinator for Italian consortium.**
- Programma Regionale di Azioni Innovative FESR 2006-2007 - Realizzazione prototipale di una piattaforma software basata su "open standard" per l'erogazione di servizi multimediali avanzati (Prototype development of a software platform based on "open standards" for the delivery of advanced multimedia services) - budget 70k€, funding 49 k€, DIEI, **Project coordinator.**
- Fondazione Cassa di Risparmio di Perugia (FCRPG) - Sviluppo di un programma di calcolo per simulare i meccanismi di base del sistema immunitario alle scale nanometriche (Development of a software to simulate the basic mechanisms of the immune system at the nanoscale), participation as researcher of DIEI.
- FAR ASINFO - Architetture di sistemi e Servizi Integrati per l'INFOMobilità, a supporto della mobilità delle persone e delle merci, e della gestione dei connessi servizi di trasporto e di logistica (System architectures and integrated services for the infomobility, to support the mobility of people and goods, and services related to the management of transport and logistics), participation as **responsible of CNIT RU UniPG** (CNIT research unit of Università degli Studi di Perugia).
- Project "Sistemi integrati di comunicazione e navigazione satellitare" (Integrated systems for communications and satellite navigation), funded by Consorzio Technos Reat Aerospace (Rieti), participation as researcher of DIEI.
- Project "Piattaforma per la localizzazione continua di mezzi di trasporto e persone (E-GPS)" (Platform for continuous localization of vehicles and people), funded by Consorzio Radiolabs, funding 34.5 k€, DIEI, **Project coordinator.**
- Projects funded by Wind Telecomunicazioni S.p.A.: "Analisi della qualità dei servizi di rete all'ingrosso di tipo ULL, WLR e Bitstream", "Analisi dell'applicabilità modello BU LRIC ai servizi di terminazione su reti mobili", "Analisi dei meccanismi di transizione alle reti NGN e delle procedure di accesso disaggregato all'ingrosso", participation as researcher of DIEI.

### 3 Summary of research activity

The research activity of Mauro Femminella is focused on computer networks, considering both the design of novel networking protocols/architectures and the relevant performance. At the beginning of his academic career, the participation to research projects has stimulated new ideas and solutions to address project issues, and thus his research activity has been mainly project-driven. In last years, in addition to carry out the research activities framed in ongoing projects,

additional research activities have been mostly curiosity-driven. This has also facilitated the establishment of cooperation with high level international research institutions: Columbia University, New York (Prof. H. Schulzrinne), University of Mississippi (Prof. J. Daigle), University of Osaka (Prof. T. Nakano), University of Western Macedonia (Prof. A. Vasilakos), Cambridge University, UK, (Prof. P. Liò), and Vrije Universiteit Brussel (Prof. K. Steenhaut). In turn, working on this new research themes allowed getting new funding from competitive calls (examples are the FP7 ARES project or the project funded by FCRPG), so feeding a positive loop between research and the relevant funding.

The main research topics of Mauro Femminella are listed below:

- Quality of service (QoS), pricing, and mobility support in the Internet;
- Content delivery networks (CDN) and caching;
- Service management in IEEE 802.11 wireless networks;
- Augmentation techniques for satellite localization services;
- Middleware platform for management and creation of multimedia services;
- Platform for programmable network nodes;
- Nanoscale molecular communications.

#### **4 Main teaching activity**

Official teaching assignments:

- Course “Telecommunication networks”, Università degli Studi di Perugia, Orvieto site, held in academic years 2002/03, 2003/04, 2004/05, 2005/06, 2006/07, 2007/08, 2008/09, and 2009/2010, BS in Computer and Telecommunication Engineering.
- Course “Telecommunication lab”, Università degli Studi di Perugia, Perugia site, held in the academic year 2010/2011, BS in Electronic and Information Engineering.
- Course “Wireless networks”, Università degli Studi di Perugia, Perugia site, held in academic years 2010/11, 2011/12, 2012/13, and 2013/14, MS in Computer and Automation Engineering.

Mauro Femminella has supervised a number of BS and MS thesis.

Currently Mauro Femminella is co-advisor of three PhD students in Information Engineering: F. Giacinti, L. Felicetti, and D. Valocchi.

Mauro Femminella has been a member of the Evaluation Committee for the access to the PhD program in Information Engineering of the Università degli Studi di Perugia in 2011/12.

Mauro Femminella has been member of the PhD Defense Committee, for the PhD in Information Engineering, Università degli Studi di Siena, 16 July 2010, and for the PhD in Electronic, Computer, and Telecommunication Engineering, Università Politecnica delle Marche, 22 December 2009.

He taught lessons on “Advanced protocols for wireless networking at the nano scales” at Erasmushogeschool Brussel in April 2013.

## 5 Peer review activity

Reviewer for the following journals: IEEE Communications Letters, IEEE Journal on Selected Areas in Communications (JSAC), IEEE Wireless Communications, IEEE Networks, IEEE Communications Surveys & Tutorials, Mobile Networks and Applications Journal (Springer), Wireless Networks (Springer), Journal of Network and Systems Management (Springer), Computer Communications (Elsevier), Computer Networks (Elsevier), Journal on Network and Computer Applications (Elsevier), International Journal of Satellite Communications (Wiley), International Journal of Communication Systems (Wiley), International Journal of Electronic Business (Inderscience), European Transactions on Telecommunications (Wiley), IEEE Transactions on Wireless Communications, International Journal of Network Management (Wiley), IEEE Transactions on NanoBioScience, IEEE Transactions on Signal Processing, Simulation Modelling Practice and Theory.

Reviewer for the following conferences: IEEE Infocom, IEEE ICC, IEEE Globecom, IEEE WCNC, IEEE VTC, High Performance Switching and Routing (HPSR), International Workshop on Algorithms for Wireless, Mobile, Ad Hoc and Sensor Networks (WMAN), International Workshop on Advanced Internet Charging and QoS Technologies (ICQT), Personal Wireless Communications (PWC), International Workshop on QoS in Multiservice IP Networks (QoS-IP), IST Mobile & Wireless Communications Summit, Advanced Satellite Mobile Systems Conference, Wireless Euro-Mediterranean International Conference, IEEE ISWPC, European Wireless.

TPC member for the following conferences: IMS and related services Workshop (co-located with Mobimedia 2009), IEEE ICC 2014, 8<sup>th</sup> and 9<sup>th</sup> IEEE Broadband Wireless Access Workshop (co-located with IEEE Globecom), ICST BICT 2014.

## 6 Scientific publications

The contribution of Mauro Femminella in all the papers reported below has to be considered equally shared with the other co-authors when the authors list is alphabetically sorted, while he has to be considered as the main contributor when he appears as first author and the alphabetical order is not adopted.

### 6.1 Journal papers

- A1. G. Bianchi, N. Blefari-Melazzi, M. Femminella, "Per-flow QoS Support over a Stateless Differentiated Services IP Domain", *Computer Networks, Elsevier Science*, vol. 40, N. 1, Settembre 2002, pp. 73-87.
- A2. D. Di Sorte, M. Femminella, G. Reali, S. Zeisberg, "Network Service Provisioning in UWB Open Mobile Access Networks", *IEEE JSAC*, vol. 20, N. 9, Dicembre 2002, pp. 1745-1753.
- A3. N. Blefari-Melazzi, M. Femminella, "A Comparison of the Utilization Efficiency between a Stateful and a Stateless Admission Control in IP Networks in a Heterogeneous Traffic Case", *Telecommunication Systems Journal, Kluwer Academic Publishers*, 25, N. 3/4, Marzo/Aprile 2004, pp. 231-258.

- A4. D. Di Sorte, M. Femminella, G. Reali, “A QoS Index for IP Services to Effectively Support Usage-based Charging”, *IEEE Communications Letters*, vol. 8, N. 11, Novembre 2004, pp. 686-688.
- A5. N. Blefari-Melazzi, M. Femminella, F. Pugini, “A layer 3 movement detection algorithm driving handovers in Mobile IP”, *Wireless Networks (WINET), Springer Science + Media Business (formerly Kluwer Academic Publishers)*, vol. 11, N. 3, Maggio 2005, pp. 223-233.
- A6. D. Di Sorte, M. Femminella, L. Piacentini, G. Reali, “Target access router selection in advanced mobility scenarios”, *Computer Communications, Elsevier*, Febbraio 2006, vol. 29, N. 3, pp. 337-357.
- A7. D. Di Sorte, M. Femminella, L. Piacentini, G. Reali, “Performance Evaluation of the Push-Mode-Multicast based Candidate Access Router Discovery (PMM CARD)”, *Computer Networks, Elsevier*, Febbraio 2006, vol. 50, N. 3, pp. 367-397.
- A8. D. Di Sorte, M. Femminella, G. Reali, “A novel approach to charge for IP services with QoS support,” *Journal of network and systems management, Springer*, Giugno 2006, vol. 14, N. 2, pp. 279-312.
- A9. N. Blefari Melazzi, D. Di Sorte, M. Femminella, G. Reali, “Autonomic Control and Personalization of a Wireless Access Network,” *Computer networks, Elsevier*, 11 Luglio 2007, vol. 51, N. 10, pp. 2645-2676.
- A10. D. Di Sorte, M. Femminella, G. Reali, “On the Performance of Service Publishing in IEEE 802.11 Multi-access Environment,” *IEEE Communications Letters*, Aprile 2007, vol. 11, N. 4, pp. 322-324.
- A11. D. Di Sorte, M. Femminella, G. Reali, “Beacon-based Service Publishing Framework in Multi-service Wi-Fi Hotspots,” *EURASIP Journal on Wireless Communications and Networking*, 2007, pp. 1-18, DOI: 10.1155/2007/38463.
- A12. D. Di Sorte, M. Femminella, G. Reali, “Design and performance evaluation of a mechanism to share contents over broadcast channels,” *International Journal of Communication Systems, Wiley*, vol. 21, N. 4, pp. 343-360.
- A13. N. Blefari Melazzi, M. Femminella, “Measuring the edge-to-edge available bandwidth in a DiffServ domain,” *International Journal of Network Management, Wiley*, September/October 2008, vol. 18, N. 5, pp. 409-426.
- A14. D. Di Sorte, M. Femminella, G. Reali, “QoS-enabled Multicast for Delivering Live Events in a Digital Cinema Scenario,” *Journal of Network and Computer Applications, Elsevier*, January 2009, vol. 32, N. 1, pp. 314-344.
- A15. N. Blefari Melazzi, M. Femminella, J.N. Daigle, “Efficient and stateless deployment of VoIP services”, *Computer Networks, Elsevier*, 9 April 2009, vol. 53, N. 5, pp. 706-726.
- A16. Femminella M., R Francescangeli, G Reali, J W Lee and H Schulzrinne. An Enabling Platform for Autonomic Management of the Future Internet. *IEEE Network* 25/2011:2–10, 2011. DOI: 10.1109/MNET.2011.6085639.
- A17. Femminella M., E Maccherani and G Reali. Workflow Engine Integration in JSLEE AS. *IEEE Communications Letters* 15:1405–1407, 2011. DOI: 10.1109/LCOMM.2011.093011.110851.

- A18. Femminella M., R Francescangeli, G Reali. A signaling architecture for multimedia MBS over WiMAX. *EURASIP Journal on Wireless Communications and Networking*, 2012:1–22. DOI: 10.1186/1687-1499-2012-140.
- A19. Femminella M., Reali G.. Extension of the GPS capabilities in low satellite visibility areas. *IEEE Vehicular Technology Magazine* 7(4), 2012, DOI: 10.1109/MVT.2012.2193492
- A20. Femminella M., F Giacinti and G Reali. An extended Java Call Control for Session Initiation Protocol. *IEEE Multimedia* 19(4):60–71, 2012. DOI: 10.1109/MMUL.2011.58.
- A21. L. Felicetti, Femminella M., G Reali. "A simulation tool for nanoscale biological networks". *Nano Communication Networks* 3/2012:2–18, 2012. DOI: 10.1016/j.nancom.2011.09.002.
- A22. Giuseppe Baruffa, Mauro Femminella, Francesco Mariani, Gianluca Reali, "Protection Ratio and Antenna Separation for DVB-T/LTE Coexistence Issues", *IEEE Communications Letters*, vol. 17, p. 1588-1591, doi: 10.1109/LCOMM.2013.070113.130887.
- A23. J.N. Daigle, M. Femminella, G. Reali. "Dimensioning of dual leaky bucket parameters for regulating voice sources". *Electronics Letters*, vol. 49, 2013, p. 756-757, doi: 10.1049/el.2013.0764
- A24. Luca Felicetti, Mauro Femminella, Gianluca Reali. "Simulation of molecular signaling in blood vessels: Software design and application to atherogenesis". *Nano Communication Networks*, vol. 4, no. 3, 2013, p. 98-119, doi: 10.1016/j.nancom.2013.06.002
- A25. M. Femminella, F. Giacinti, G. Reali. "Enhancing java call control with media server control functions". *IEEE Communications Magazine*, vol. 51, 2013, p. 132-142, doi: 10.1109/MCOM.2013.6619577
- A26. Deniz Demiray, Albert Cabellos-Aparicio, Eduard Alarcón, D. Turgay Altılar, Ignacio Llatser, Luca Felicetti, Gianluca Reali, Mauro Femminella. "DIRECT: A model for molecular communication nanonetworks based on discrete entities". *Nano Communication Networks*, 2013, vol. 4, no. 4, pp. 181-188, doi: 10.1016/j.nancom.2013.08.004
- A27. L. Felicetti, M. Femminella, G. Reali, P. Gresele, M. Malvestiti, "Simulating an in vitro experiment on nanoscale communications by using BiNS2", *Nano Communication Networks*, 2013, vol. 4, no. 4, pp. 172-180, doi: 10.1016/j.nancom.2013.08.003.
- A28. M. Femminella, F. Giacinti, G. Reali, " Optimal Deployment of Open-Source Application Servers providing Multimedia Services", *IEEE Network*, 2014, in press.

## 6.2 Book chapters

- B1. Bianchi, N. Blefari-Melazzi, F. Delli Priscoli, F. Dini, M. Femminella, "End-to-End Quality of Service Support", in *Space/Terrestrial Mobile Networks*, Edito da R.E. Sheriff, Y.F. Hu, G. Losquadro, P. Conforto, C. Tocci, Aprile 2004, *John Wiley & Sons*, ISBN: 0-470-85031-0, pp. 99-136.



### 6.3 *Papers in international conferences*

- C1. N. Blefari-Melazzi, M. Femminella, G. Reali, "Dynamic Bandwidth Allocation in a Circuit-Switched Satellite Network: Provision of Deterministic and Statistical QoS Guarantees", *IEEE INFOCOM 2000*, 26-30 Marzo, 2000, Tel Aviv, Israele.
- C2. C. Tocci, P. Conforto, G. Losquadro, F. Delli Priscoli, M. Femminella: "Internet end-to-end QoS support in a GMBS system: the SUITED solution", *IST Mobile Communication Summit 2000*, 1-4 Ottobre, 2000, Galway, Irlanda.
- C3. G. Bianchi, N. Blefari-Melazzi, M. Femminella, F. Pugini "Joint Support of QoS and Mobility in a Stateless IP Environment", *IEEE GLOBECOM 2001*, 25-29 Novembre, 2001, San Antonio, Texas, USA.
- C4. G. Bianchi, N. Blefari-Melazzi, M. Femminella, F. Pugini "Performance Evaluation of a Measurement-Based Algorithm for Distributed Admission Control in a DiffServ Framework", *IEEE GLOBECOM 2001*, 25-29 Novembre, 2001, San Antonio, Texas, USA.
- C5. N. Blefari-Melazzi, M. Femminella, F. Pugini "Definition and Performance Evaluation of a Distributed and Stateless Algorithm for QoS Support in IP Domains with Heterogeneous Traffic", invited paper, *SSGRR 2001*, 6-12 Agosto, 2001, L'Aquila, Italia.
- C6. N. Blefari-Melazzi, D. Di Sorte, M. Femminella, G. Reali "Resource Allocation Rules to Provide QoS Guarantees to Traffic Aggregates in a DiffServ Environment", *IST Mobile Communication Summit 2001*, 9-12 Settembre, 2001, Barcellona, Spagna.
- C7. N. Blefari-Melazzi, D. Di Sorte, M. Femminella, G. Reali "Accounting and Charging in a IP Infrastructure Supporting QoS and Mobility", *IST Mobile Communication Summit 2001*, 9-12 Settembre, 2001, Barcellona, Spagna.
- C8. P. Conforto, A. De Carolis, M. Femminella, F. Pugini, C. Tocci "Solutions and Techniques for the Provision of End-to-End IP QoS in a GMBS System", *IST Mobile Communication Summit 2001*, 9-12 Settembre, 2001, Barcellona, Spagna.
- C9. G. Bianchi, N. Blefari-Melazzi, M. Femminella, F. Pugini "Performance Evaluation of a Measurement-Based Algorithm for Distributed Admission Control in a DiffServ Framework", *IWDC 2001*, 17-20 Settembre, 2001, Taormina, Italia, in Lecture Notes on Computer Science, Springer-Verlag, Sergio Palazzo, Ed.
- C10. N. Blefari-Melazzi, D. Di Sorte, M. Femminella, G. Reali, "Charging IP Network Services in a Multi-Segment Infrastructure Supporting QoS and Mobility", *ICQT'01*, 27 Settembre, 2001, Vienna, Austria.
- C11. N. Blefari-Melazzi, M. Femminella, "Stateful vs. Stateless Admission Control: which can be the gap in utilization efficiency?", *IEEE GLOBECOM 2002*, 17-21 Novembre, 2002, Taipei, Taiwan.

- C12. N. Blefari-Melazzi, L. Buoncristiani, M. Femminella, F. Mazzolini, L. Secondiani, "A Transport Interworking Protocol for the Support of TCP/IP Services over the EuroSkyWay Satellite Network", *20th AIAA International Communication Satellite System Conference and Exhibit*, 12-15 Maggio, 2002, Montreal, Canada.
- C13. N. Blefari-Melazzi, M. Femminella, F. Pugini, "A robust and flexible solution for Movement Detection in Wireless IP Networks: Enhanced Lazy Cell Switching", *IST Mobile & Wireless Telecommunications Summit 2002*, 16-19 Giugno, 2002, Salonicco, Grecia.
- C14. N. Blefari-Melazzi, M. Femminella, F. Mazzolini, L. Piacentini, L. Secondiani, "A Transport Interworking Protocol for the Support of TCP/IP based Applications over the ESW Satellite Network in the GMBS environment", *IST Mobile & Wireless Telecommunications Summit 2002*, 16-19 Giugno, 2002, Salonicco, Grecia.
- C15. N. Blefari-Melazzi, P. Conforto, P. Dini, M. Femminella, R. De Finis, C. Tocci, "QoS-Aware Mobility Management: Solutions and Performance Evaluation", *IST Mobile & Wireless Telecommunications Summit 2002*, 16-19 Giugno, 2002, Salonicco, Grecia.
- C16. N. Blefari-Melazzi, D. Di Sorte, M. Femminella, G. Reali, "Theoretical Analysis of a Virtual Delay based Tariff Model", *IEEE ICC 2003*, 11-15 Maggio, 2003, Anchorage, Alaska, USA.
- C17. N. Blefari-Melazzi, J. N. Daigle, M. Femminella, "Stateless Admission Control for QoS Provisioning for VoIP in a DiffServ Domain", *ITC 18th*, 31 Agosto-5 Settembre, 2003, Berlino, Germania.
- C18. N. Blefari-Melazzi, F. Cuomo, M. Femminella, C. Martello, "Integrating UWB radio access procedures with a stateless IP QoS paradigm", *IEEE VTC 2003-Fall*, 6-9 Ottobre, 2003, Orlando, Florida, USA.
- C19. A. Roveri, C.-F. Chiasserini, M. Femminella, T. Melodia, G. Morabito, M. Rossi, I. Tinnirello, "The RAMON module: architecture framework and performance results", *QoS-IP 2003*, 24-26 Febbraio, 2003, Milano, Italia.
- C20. M. Femminella, L. Piacentini, "Mobility Management in a Reconfigurable Environment: the RAMON Approach", *QoS-IP 2003*, 24-26 Febbraio, 2003, Milano, Italia.
- C21. N. Blefari-Melazzi, M. Femminella, F. Pugini, "Movement detection in IP heterogeneous wireless networks", *5th European Personal Mobile Communications Conference (EPMCC 2003)*, 22-25 Aprile, 2003, Glasgow, Scozia.
- C22. N. Blefari-Melazzi, D. Di Sorte, M. Femminella, L. Piacentini, G. Reali, "Resources discovery and selection in wireless networks," *IEEE ICC 2004*, 21-23 Giugno, 2004, Parigi, Francia.
- C23. N. Blefari-Melazzi, D. Di Sorte, M. Femminella, L. Piacentini, G. Reali: "Access router discovery and selection in advanced wireless networks", *1<sup>st</sup> Working Conference on Wireless On-demand Network Systems (WONS 2004)*, 21-23 Gennaio, 2004, Madonna di Campiglio (TN), Italia.

- C24. M. Berioli, N. Blefari-Melazzi, D. Di Sorte, M. Femminella, "MPLS support in the FIFTH content delivery network," *IST Mobile and Wireless Communications Summit 2004*, 27-30 Giugno, 2004, Lione, Francia.
- C25. N. Blefari-Melazzi, D. Di Sorte, M. Femminella, L. Piacentini, G. Reali, "Performance evaluation of a multicast-based solution for wireless resources discovery," *IEEE ICC 2005*, 16-20 Maggio, 2005, Seoul, Corea.
- C26. N. Blefari-Melazzi, D. Di Sorte, M. Femminella, L. Piacentini, G. Reali, "A Distributed Brokerage Framework to Balance the Load in Wireless Networks," *ITC 19th*, 29 Agosto-2 Settembre, 2005, Beijing, Cina.
- C27. N. Blefari-Melazzi, D. Di Sorte, M. Femminella, L. Piacentini, G. Reali, "Toward an Autonomic Control of Wireless Access Networks," *IEEE GLOBECOM 2005*, St. Louis, USA.
- C28. N. Blefari-Melazzi, D. Di Sorte, M. Femminella, G. Reali, "Access network control within the Simplicity brokerage framework", *IST Mobile & Wireless Communications Summit 2005*, 19-23 Giugno, 2005, Dresda, Germania.
- C29. N. Blefari-Melazzi, D. Di Sorte, M. Femminella, G. Reali, "A tariff model to charge IP services with guaranteed quality: effect of users demand in a case study," *9th IFIP/IEEE International Symposium on Integrated Network Management (IFIP/IEEE IM 2005)*, 15-19 Maggio, 2005, Nizza, Francia.
- C30. N. Blefari-Melazzi, D. Di Sorte, M. Femminella, G. Reali, "Architecture for user-aware network self-configuration," *9th IFIP/IEEE International Symposium on Integrated Network Management (IFIP/IEEE IM 2005)*, 15-19 Maggio, 2005, Nizza, Francia.
- C31. N. Blefari-Melazzi, J.N. Daigle, M. Femminella, "On the modeling of voice sources regulated by dual leaky buckets", *IEEE MASCOTS 2005*, Atlanta, USA, 2005, 27-29 Settembre 2005.
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