

# CURRICULUM VITAE

(aggiornato a Gennaio 2018)

## 1. Personal information

First name / Surname Antonio IERA

Address (personal): Viale Della Repubblica, 231  
87100 Cosenza, ITALY  
Tel.: +39 0984 1862612 ; Cell. +39 3471440180  
e-mail: antoiera67@gmail.com

Address (professional): University "Mediterranea" of Reggio Calabria  
Dept. D.I.I.E.S.  
Via Graziella (Feo di Vito)  
89100 Reggio Calabria, ITALY  
Phone: +39 0965 169 3286  
Fax: +39 0965 169 3247  
e-mail: antonio.iera@unirc.it  
web: [www.arts.unirc.it](http://www.arts.unirc.it), [www.social-iot.org](http://www.social-iot.org)

Nationality: Italian

Place and date of birth: Cosenza, ITALY - 02.08.1967

Gender: Male

## 2. Work experience

### From January 2005 to date

Full Professor of Telecommunications at the *Università degli Studi "Mediterranea"* of Reggio Calabria, Italy.

### From October 2001 to January 2005

Associate Professor of Telecommunications at the *Università degli Studi "Mediterranea"* of Reggio Calabria, Italy.

### From December 1997 to September 2001

Assistant Professor of Telecommunications at the *Università degli Studi "Mediterranea"* of Reggio Calabria, Italy.

### From October 1994 to October 1995

Recipient of a "*Commission of European Communities Fellowship Contract in RACE Mobility Action*", Siemens AG, Munich, Germany

## 3. Education

### From October 1992 to October 1995

PhD course in "*Multimedia Technologies and Communication Systems*".

Name of organization: Università della Calabria, Cosenza, Italy.  
Main research and study topics: Multimedia communications systems, multimedia traffic management over broadband wired and wireless multimedia networks.

**From September 1991 to July 1992**

Master course in *Information Technologies*

Name of organization: CEFRIEL/Politecnico di Milano, Milan, Italy  
Final mark: 100/100 cum laude  
Research Area: Telecommunication Networks

**From November 1985 to October 1991**

Degree in Computer Engineering

University: Università degli Studi della Calabria, Cosenza  
Final mark: 110/110 cum laude  
Topic of the final dissertation: ATM Networks

**4. Management activities:****From 2016 to date**

Member of the Advisory Boards of the DOMUS technological District of Calabria Region

**From 2013 to date**

Member of the Scientific Committee of CNIT (National Inter-University Consortium for Telecommunications). This is a non-profit Consortium among 37 Italian Universities, whose main purpose is to coordinate and foster basic and applied research activities also looking for cooperation with national and international bodies and industries and provide advanced education and training in the area of Telecommunications

**From 2012 to date**

Member of the Academic Senatium of the University of Reggio Calabria.

**From 2008 to date**

Responsible (scientific and administrative) of the Laboratory in Reggio Calabria of the ICT Competence Center ("ICT-SUD") funded by the Italian Ministry of Research.

**From 2002 to date**

Scientific Responsible of the Laboratory for Advanced Research into Telecommunication Systems (ARTS) at the Department DIIES ([www.arts.unirc.it](http://www.arts.unirc.it))

**From 2012 to May 2015**

Member of the Board of Directors of the ICT-Sud Consortium. This is an inter-regional Consortium (Calabria, Sicilia, Campania, Sardegna, Puglia) finalized to technology transfer activities. Currently it has 66 partners: 13 Research Centers and Universities, 5 private-public Consortia, and 48 private partners, mainly SMEs operating in the ICT sector.

**From 2010 to 2013**

Member of the Board of Directors of the CALPARK Consortium (Calabrian Scientific and Technological Park). The Calabrian Universities hold 50%. Companies hold the remaining 50%

**From 2010 to 2012**

Delegate of the Rector for the Industrial Research activities and for the coordination of Regional, National and International projects of the University of Reggio Calabria in the field of ICT.

**From 2008 to 2012**

Chief of the Department DIMET (Informatics, Mathematics, Electronic, and Transportation Systems) of the University "Mediterranea" of Reggio Calabria

**From 2008 to 2013**

Member of the Managing Committee of CNIT (National Inter-University Consortium for Telecommunications).

**From 2004 to 2015**

Responsible of the Research unit at the University Mediterranea di Reggio Calabria of the National Research Group "Telecommunications and Information Theory".

**From 1999 to 2012**

Delegate of the Dean of Faculty of Engineering for the tele-learning services and responsible of the Tele-learning and Teleconferencing laboratory and multimedia laboratory of the Faculty.

**From 2007 to 2011**

Coordinator of the Ph.D. Course in "Computer, Biomedical, and Telecommunication Engineering", Faculty of Engineering, University of Reggio Calabria

**From 2007 to 2010**

Member of the Managing Committee of the Industrial Liaison Office (ILO) of the Università di Reggio Calabria

**From 2007 to 2009**

Member of the Board of Directors of the R&D Log Consortium (Logistica Ricerca e Sviluppo s.c.r.l.) whose aim is carrying out preparatory actions for the Technological District of Logistics and Transformation of Gioia Tauro. The Universities and Public research bodies hold 50%. Companies hold the remaining 50%

**From 2001 to 2007**

Delegate of the Dean of Faculty to the International Relationships

**From 2004 to 2007**

Delegate of the Rector of University Mediterranea for e\_learning

**From 2005 to 2007**

Member of the Consultation Group for the "Information Society" of the Calabria Regional Council

**From 1998 to 2007**

Delegate of the Dean of Faculty of Engineering for the activities relevant to the SOCRATES / ERASMUS exchange program.

**From 2001 to 2004**

Member of the Board of Governors (Consiglio di Amministrazione) of the University of Reggio Calabria, representative of Associate Professors

**In 2003**

Member of the "Assembly of the Institutions" of the Civic Network of Reggio Calabria

**From 1999 to 2003**

Delegate of the Dean of Faculty of Engineering for the Project TELCAL (Piano Telematico Calabria).

**From 1998 to 2001**

Member of the Board of Governors (Consiglio di Amministrazione) of the University of Reggio Calabria, representative of Assistant Professors

**5. Main national and international activities/recognitions**

1. Co-Chair of the Demonstration Session at the 15th Annual IEEE Consumer Communications & Networking Conference, January 2018, Las Vegas, USA
2. Invited Lecturer (lecture title: Social Virtual Objects in the Edge Cloud) at the International School on "Enabling Technologies, Applications, and Methods for Emerging 5G Systems", sponsored by the IEEE Broadcast Technology Society Italy Chapter, Reggio Calabria, 9th-11th October 2017,
3. Co-Chair of the Special Session "Communication, Security and Data Analysis in the Social Internet of Things" at the IEEE 14th International Symposium on Wireless Communication Systems (ISWCS 2017), Bologna, Italy, August 28-31, 2017.

4. Co-Chair of the Demonstration Session at the 14th Annual IEEE Consumer Communications & Networking Conference, 8-11 January 2017, Las Vegas, USA
5. Lecturer of the online IEEE Course on the topic "The Emerging Paradigm of the Social Internet of Things", available online in the IEEEExplore Digital Library since June 2016
6. Co-Chair of the Special Session on the "Social Internet of Things" at the IEEE World Forum on Internet of Things, WF-IoT 2016, Reston, VA, U.S.
7. Tutorial on the topic "The Internet of Things moves into the Cloud" given at the IEEE International Conference on Cloud Engineering (IC2E) 2016, April 4-8, 2016, Berlin, Germany
8. Tutorial on the topic "Defining and analysing the Internet of Things in the age of Social Networks, Clouds, and Future Internet" given at the 13th Annual IEEE Consumer Communications & Networking Conference, 9th January 2016, Las Vegas, USA
9. Recipient of the *IEEE Runner-up Best Paper Award* for the paper published in the proceedings of the Conference IEEE World Forum on Internet of Things, WF-IoT 2015, Milan 2015
10. Tutorial on the topic "Understanding the IoT evolution to master the upcoming IoT revolution" given at the European Wireless Conference, Budapest, 20th may 2015
11. Tutorial on the topic "The Social Internet of Things" given at the IEEE International Conference on Cloud Engineering, IC2E 2015 Conference, Tempe, AZ, US, 9th march 2015
12. Invited Speaker at the Panel "Cloud and the Internet of Things", IEEE International Conference on Cloud Engineering, IC2E 2015 Conference, Tempe, AZ, US, march 11th 2014
13. Guest editor (with Antonio F. Skarmeta and M. Victoria Moreno, University of Murcia) for the special issue "Smart Things, Big Data Technology and Ubiquitous Computing Solutions for the Future Internet of Things" in the Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA), Vol. 6, No. 1., March 2015
14. Responsible of the International collaboration agreement between University Mediterranea of Reggio Calabria and INRIA (Institut national de recherche en informatique et en automatique) - Lille, France with the endorsement of the International Relations Department of Inria under the label of "Inria International Partner".
15. Invited Lecturer (lecture title: Evolution of the Internet of Things in the age of Social Networks) at the IEEE Signal Processing Society Summer School on Internet of Things and Machine-to-Machine Systems, Taipei, Taiwan, August 26th 2014
16. Tutorial on the topic "The Convergence of Social and Sensor Networks in the Internet of Things: From Theory to Practice" given at the IEEE WCNC 2014 Conference, Istanbul, April 6th 2014
17. Tutorial on the topic "Convergence of IoT and Social Networks" given at the IEEE World Forum on IoT 2014, Seoul, march 2014
18. Invited Speech on "Opportunities, Technologies, and Challenges of the Social Internet of Things" given at the School of Computer Science and Engineering of the Chung-Ang University, Seoul, march 2014
19. Tutorial on the topic "Social Internet of Things" given at the 9<sup>th</sup> IWCMC 2013 Conference, Cagliari, July 2013
20. Publicity chair of the "IEEE Workshop on Internet of Things Technology and Architectures", Las Vegas, US, the 11th of October 2012.
21. Keynote Speech on the topic "Internet of Things" given at the 50th Anniversary International Conference FITCE 2011, Palermo, August 2011
22. Publicity chair of the "IEEE Workshop on Internet of Things Technology and Architectures", Valencia, Spain, the 17th of October 2011.
23. Guest editor (with Christian Floerkemeier – M.I.T., Giacomo Morabito – Università di Catania, and Jin Mitsugi, Keyo University) for the special issue "*Internet of Things: The Next Big Thing in*

*Communications?*” in IEEE Wireless Communications Magazine. (call for papers 2009, pub. December 2010)

24. Technical co-chair of the 12th Thyrrhenian International Workshop on the “*Internet of Things*”, Pula, Sardinia, Sept. 2009.
25. Elected to the grade of Senior member of IEEE in 2007
26. Member of the Calabria Regional Council of Italian Engineering Society AEIT
27. Since 2006 member of the *ISI (Integrated Satellite Initiative) Technology Platform* and of the *E-Mobility Technology Platform* for the VII Frame Program of European Commission
28. Guest editor (with Apostolis Salkintzis, Motorola, Antonella Molinaro, Università della Calabria, Ki-Dong Lee, ETRI Korea) for the special issue *Synergy of Space and Terrestrial Communications in Next-Generation Hybrid Wireless Systems* in IEEE Wireless Communications Magazine. (call for papers Sept. 2004, pub. Aug. 2005)
29. Guest editor (with Klara Nahrstedt, University of Illinois at Urbana-Champaign and Antonella Molinaro, Università della Calabria) for the special issue *QoS in Next-generation Wireless Multimedia Communications Systems* in IEEE Wireless Communications Magazine. (call for papers Jun. 2002, pub. Jun. 2003)
30. Invited Speaker at a Plenary Session of IEEE PIMRC 2005, Berlin
31. Invited papers published in the Proceedings of the International Conference IEEE Mobimedia 2006, in the Proceedings of the International Conference Auswireless 2006, in the Proceedings of the International Symposium on 3<sup>rd</sup> Generation Infrastructure and Services (3GIS), Athens, July 2001, and in the International ASSI Satellite Communications Letter (edition No.4), June 2002
32. Member of the Technical Program Committees of the following Conferences: “IEEE Global Conference on Communications *GLOBECOM’2013, GLOBECOM’2012, GLOBECOM’2011, GLOBECOM’2010, GLOBECOM’2009, GLOBECOM’2008, GLOBECOM’2006, GLOBECOM’2005*”, “IEEE Symposium on Computers & Informatics” *ISCI 2012*, “IEEE Workshop on the Internet of Things: Smart Objects and Services” *IoT-SoS 2012*, IEEE *PIMRC 2011, FITCE 2011*, “IEEE International Symposium on Communications & Information Technologies” *ISCIT 2011*, “IEEE International Conference on Communications” *ICC’2010, ICC’2009, ICC’2008, ICC2007, ICC’2006, ICC’2005, ICC’2004*, “IEEE Vehicular Technology Conference *VTC’2010 Spring, VTC’2003 Fall - Symposium on Broadband Mobile Satellite Networks*” *WirelessCom 2005, AICT 2006*, - *Wireless Networking Symposium*”, *ICT 2002, ICT 2001*
33. *Publicity Chair* and Member of the Technical Program Committee of the International Conference “Wireless Personal Multimedia Communications” *WPMC’04*.
34. Recipient of the *IEICE/IEEE Outstanding Paper Award* for the paper published in the proceedings of the International Conference IEEE ATM Workshop, 1999
35. Recipient of the *IEEE Student Paper Award* for the paper published in the proceedings of the Conference IEEE International Conference on Universal Personal Communications, ICUPC’95, Tokio 1995
36. Recipient of an annual student grant from Telesoft S.p.A. for attending the course of Master in “Information Technologies” at the research center CEFRIEL/Politecnico di Milano in 1991-92
37. Continuous review activity of papers for international journal, Magazines, Conferences of IEEE, ACM, and IEE: IEEE Journal on Selected Areas in Communications, IEEE Transactions on Vehicular Technology, IEEE Personal Communications Magazine, IEEE Communications Magazine, ACM Computer Communications, Wireless Personal Communications, IEEE Transactions on Wireless Communications, etc.. (just a sample list)

## 6. Main project evaluation activities

1. Evaluator for “Sardegna Ricerche” of research projects within the call “Aiuti per progetti di ricerca e sviluppo” POR Sardegna FESR 2014-2020 Asse 1- Azione 1.1.3”, 2017

2. Evaluator for “Innovapuglia” of projects within the call ““INNONETWORK Sostegno alle attività di R&S per lo sviluppo di nuove tecnologie sostenibili, di nuovi prodotti e servizi”,” 2017
3. Evaluator for Provincia Autonoma di Trento – Industrial Research Projects, 2017
4. Evaluator forr “Sardegna Ricerche” for the call “Progetto Strategico Sulcis - Progetti di ricerca pubblico-privati”, 2016
5. Reviewer for Lithuanian State Education Development Agency, Activity 1.1.1.2 “Post-doctoral Research Aid” of the Specific Aid Objective 1.1.1, call 2017
6. Reviewer for ERANET-LAC 2nd Transnational Joint Call for Research and Innovation Projects - topic “Smarter, inclusive and sustainable cities”, call 2016
7. Reviewer of the U.S. National Science Fundation (NSF) research proposals within the Program “SCIENCE, TECH & SOCIETY”, call 2016
8. Member of the Expert Panel for *ERA-NET Cofund Smart Cities and Communities (ENSCC)*, by the Joint Programming Initiative (JPI) Urban Europe and the Smart Cities Member States Initiative (SC MSI) year 2015
9. Esternal review for Call for Proposals: 2014 - F.R.S.-FNRS / NRF (South Africa), November 2014
10. Esternal review for the *Call for Proposals Indo-Dutch Joint Research Programme for ICT* published by the Netherlands Organisation for Scientific Research (NWO) and the Department of Electronics and Information Technology (DeitY), India's Ministry of Communications and Information Technology, November 2014
11. Research Proposal External reviewer for the Hong Kong Polytechnic University – Dept. of Industrial and Systems Engineering, October 2014
12. Evaluator for the Italian Ministry of University of the *Program for Joung Researchers “Rita Levi Montalcini”*, year 2013
13. In 2012 included in the database of Experts (Albo degli Esperti MIUR) for the evaluation of industrial research projects (Ricerca Industriale - D.Lgs. 297/1999 ).
14. 2012- Project Evaluator for the Agence Nationale de la Recherche–ANR, France.  
Most recent evaluation activities:  
- Call "*Blanc International II - SIMI 2 - Science informatique et applications 2012*" of the ANR
15. Project Evaluator for the “Fund for Scientific Research - FNRS”, Brussels.  
Most recent evaluation activities:  
- Call "*Credits and Projects 2015*" of the Fund for Scientific Research - FNRS.  
- Call "*Grants and Fellowships 2014 of the Fund for Scientific Research – FNRS*"  
- Call "*Grants and Fellowships 2013 of the Fund for Scientific Research - FNRS*"  
- Call "*Credits and Projects 2012*" of the Fund for Scientific Research - FNRS.  
- Call "*Grants and Fellowships 2011*" of the Fund for Scientific Research - FNRS - F.R.F.C. (*Fonds de la Recherche Fondamentale Collective*) projects  
- Call "*Grants and Projects 2010*" of the Fund for Scientific Research - FNRS - F.R.F.C. (*Fonds de la Recherche Fondamentale Collective*) projects
16. Project Evaluator for VI and VII Frame Program of European Commission.  
Most recent evaluation activities:  
- *FP7-2007-ICT-1 Call Strategic Objective 1.1 “The Network of the Future”;*  
- *FP6-2004-IST-4 Call Strategic Objective 2.4.5 “Mobile and Wireless Systems beyond 3G”*
17. Evaluator for the Italian Ministry of University of *Projects of National Relevance “PRIN 2008”*, Year 2009
18. Evaluator for the Italian Ministry of University of the *Projects “Rientro dei cervelli”*, Year 2008
19. Evaluator for the Italian Ministry of University of *Internationalisation Projects*, Year 2002 and Year 2005

20. Included in the database of Experts for evaluation of “European Commission e-TEN programme”
21. Included in the database of Experts for evaluation of European Commission Horizon2020 Program

## 7. Research Activities (just the main projects)

*Responsibility of the research activity in grants from private companies:*

1. (2017) “*Social Internet of Things and Future-Oriented Functional Component Design for Intrinsic Networking Capability*”, Agreement No: HF2017010002. Funding Company: Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P. R. China

*Participation with scientific responsibility of the research unit at the University of Reggio Calabria:*

2. EC Project - Horizon 2020 - Call: H2020-ICT-2014-1, In-Network Programmability for next-generation personal cloud service support (INPUT)
3. Regional Government of Calabria – Industrial Research and Experimental Development projects addressed to Companies aggregated to Innovation Centres – Innovation Centre of Logistic and Transportation Systems – Project “SMARTEL”
4. Italian Ministry of Research MIUR - grant "P.O.N. Ricerca e Competitività 2007-2013- Title III", *DOMUS - Technological District for the Information and Communication Technologies for the development of intelligent and sustainable environments* (Distretto delle tecnologie informatiche e di comunicazione per lo sviluppo di ambienti intelligenti e Sostenibili)
5. Italian Ministry of Research MIUR - grant "P.O.N. Ricerca e Competitività 2007-2013", *MC3-Care - Mobile Continuous Connected Comprehensive Care*
6. Italian Ministry of Research MIUR - grant "P.O.N. Ricerca e Competitività 2007-2013", *TETRIS – Innovative Open Source Services over TETRA*
7. Italian Ministry of Research MIUR - grant "P.O.N. Ricerca e Competitività 2007-2013", *FINGERIMBALL- Anti-counterfeiting technologies and materials, and nanotechnology applications for authentication and protection of agri-food excellence*
8. Regional Government of Calabria - Investment Contract for Industry, Trade and Services granted to the ICT-SUD Consortium – Project “*B- Sistema di controllo accessi innovativo basato sull'utilizzo integrato di tecnologie a radiofrequenza (RFID) e tecniche biometriche*” (Innovative access control system based on the integrated use of RFID technologies and biometrics). Duration: June 2011- Novembre 2012
9. Italian Ministry of Research PRIN 2007 grant: *Satellite-Assisted Localization and Communication systems for Emergency services (SALICE)*
10. Italian Ministry of Research - Italian Ministry of Economy - Calabria Regional Government grant : *INLOCO (Innovations in Coordinated Logistics)*
11. Italian Ministry of Research - Italian Ministry of Economy - Calabria Regional Government grant : *PROMIS (Logistic PROCESS Management and Intelligence System)*
12. Italian Ministry of Research - Italian Ministry of Economy - Calabria Regional Government grant : *LOGICA (ICT Technologies for Logistics) - Telecommunications Section*
13. Italian Ministry of Research, Programma Operativo Nazionale (PON) 2000-2006 (Measure II.3- Center of Technological Competence) grant: *Center of Technological Competence on ICT (CC ICT-SUD)*
14. P.O.R 2000-2006 (Measure 3.16) Calabria Regional Government grant: *ICT-Lab (Regional Laboratory on ICT)*
15. P.O.N. 2000-2006 (Measure II.2) Italian Ministry of Research grant: *REBUS - A Broadband Network for Mediterranean University Campus)*
16. Italian Space Agency 2006 grant: *WAVE II - W-BAND ANALYSIS AND VERIFICATION – Phase II*
17. Italian Ministry of Research FAR 2004 grant : “*Platform of Interoperability for Logistic and Transportation Systems- PILOT*”
18. Italian Space Agency 2004 grant: *WAVE I - W-BAND ANALYSIS AND VERIFICATION*

19. CARICAL Foundation grant: *Integration of DVB-RCS (Digital Video Broadcasting-Return Channel via Satellite) Satellite Segment into Next-generation Heterogeneous Terrestrial Platforms*

*Participation to the research unit at the University of Reggio Calabria:*

20. Italian Ministry of Research - Calabria Regional Government grant : PON03PE\_00050\_1 “Intelligent platform for monitoring and managing in-home safety of people and infrastructures (Piattaforma intelligente per il monitoraggio e la gestione della sicurezza in-home di persone e strutture)
21. Italian Ministry of Research - Calabria Regional Government grant : PON03PE\_00050\_2 “Home automation systems for cooperative energy brokerage services (Sistemi domotici per il servizio di brokeraggio energetico cooperativo)”
22. Research Projects in Human, Economics and Social Sciences ( D.D. n. 791 – 01.02) - Calabria Regional Government, Italy, *TECNE - Interdisciplinary methods for the identification, development, and dissemination of artistic and cultural heritage.*
23. Italian Ministry of Research - Italian Ministry of Economy - Calabria Regional Government grant : AUTOMA (AUTOMobile Logistic Management)
24. Italian Ministry of Research PRIN 2005 grant: *Situation and location aware design solutions over heterogeneous wireless networks (ICONA)*
25. Italian Ministry of Research FIRB grant : *Virtual Immersive COMMunications (VICOM)*
26. Italian Ministry of Research PRIN grant: *Integration of Satellite and Terrestrial Heterogeneous Systems (SHINES)*
27. Italian Ministry of Research PRIN grant: *Variable Bit-rate Mobile Communications Systems for Multimedia Applications*
28. European Space Agency grant: *Ka-Band GEO System Technology and Demonstrator, Phase I and Phase II*

## **8. Teaching activities:**

1. **Academic Year 2016-2017, 2017-18**  
“Internet of Things” (3 ECTS) within the second-level degree course in Informatics and Telecommunication Engineering and Technology Engineering and “Fondamenti di Telecomunicazioni - Unit: Comunicazioni Digitali” (6 ECTS) and “Reti di Telecomunicazioni” (6 ECTS ) within the first-level degree course in Information Technology Engineering
2. **Academic Year 2015-2016, 2014-2015, 2013-2014**  
“Mobile Radio Systems” (3 ECTS) within the second-level degree course in Informatics and Telecommunication Engineering and Technology Engineering and “Fondamenti di Telecomunicazioni - Unit: Comunicazioni Digitali” (6 ECTS) and “Reti di Telecomunicazioni” (6 ECTS ) within the first-level degree course in Information Technology Engineering
3. **Academic Year 2012-13, 2011-12, 2010-11, 2009-10**  
“Fondamenti di Telecomunicazioni - Unit: Comunicazioni Digitali” (7 ECTS) and “Reti di Telecomunicazioni” (6 ECTS ) within the first-level degree course in Information Technology Engineering
4. **From May 2009 to May 2010**  
Scientific Responsible of the research program funded by Italian Ministry of Research and Education “Scholarships for Young Indian Researchers – Year 2008 (and responsible fo the research activity of Dr. Deepak Nair).
5. **Academic Year 2008-09, 2007-08, 2006-07, 2005-06, 2004-05, 2003-04, and 2002-03**  
“Digital Communications Systems II” (5 ECTS) and “Telecommunications Networks” (5 ECTS) within the first-level degree course in Telecommunications Engineering, “Mobile Radio Systems” (5 ECTS) within the second-level degree course in Telecommunications Engineering.
6. **Academic Year 2003-04**  
“Telemedicine” at the second-level University Master in “Innovation in Biomedical Engineering”



7. **Academic Year 2003-04**  
Member of the Technical-Scientific Committee and of the Board of Professors of the II Level University Master in "Innovations in Biomedical Engineering"
8. **From Academic Year 2002-03 to date**  
Member of the Board of Professors of the Ph.D Course in "Computer, Biomedical, and Telecommunications Engineering".
9. **Academic Year 1999-00 and Academic Year 2001-02**  
Member of the Board of Professors of the Ph.D Course in "Electronic Engineering"
10. **Academic Year 2001-02**  
Professor at the Technical University of Kosice (Slovakia) of the course "Quality of Service in Multimedia Wireless Systems", within a SOCRATES Teaching Staff Mobility action
11. **Academic Year 2001-02, 2000-01 and 1999-00**  
"Digital Communications Systems I" (5 ECTS) , "Digital Communications Systems II" (5 ECTS) and "Telecommunications Networks" (5 ECTS) within the first-level degree course in Telecommunications Engineering.
12. **Academic Year 1998-99, 1997-98 and 1996-97**  
"Digital Communications Systems" (10 ECTS) , within the degree course in Electronic Engineering.

## 9. Language Skills

### Mother tongue:

Italian

### Other Languages:

	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user
German	A1	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

(\*) [Common European Framework of Reference for Languages](#)

## Annex 1. Main scientific publications and patents

### Patent

- P\_1. "METHOD AND SYSTEM FOR USE OF RFID TAGS AS A COMMUNICATION CHANNEL IN AN RFID AREA NETWORK (RAN)", Antonio Iera (IT) and Carlo Spinella Silverio (IT), 2013/8/8, patent n° WO/2013/114415

### Book

- BB\_1 Daniel Giusto, Antonio Iera, Giacomo Morabito, Luigi Atzori, "*The Internet of Things*", Springer, ISBN-10 / ASIN: 1441916733, 2010

### Book Chapters

- B\_1 "Cognitive Management Strategies for Dynamic Spectrum Access" in "Handbook of Cognitive Radio", edited by Wei Zhang, 2017, editor Springer Singapore, ISBN: 978-981-10-1389-8 (Print) 978-981-10-1389-8 (Online)
- B\_2 "Game Theoretic Approaches for Wireless Cooperative Content-Sharing", pages 399-42, in "Game Theory Framework Applied to Wireless Communication Networks" edited by Chungang Yang and Jiandong Li, 2015, Editor IGI Global, DOI: 10.4018/978-1-4666-8642-7, ISBN13: 9781466686427
- B\_3 "QoS and Fairness in WiMAX Networks", in "WiMAX Networks Planning and Optimization", edited by Yan Zhang, Auerbach Publications, CRC Press, ISBN: 978-1-4200666-2-3, 2009
- B\_4 "Handover Handling Issues in DVB-H Systems", in "4G Mobile & Wireless Communications Technologies", edited by Sofoklis Kyriazakos, Ioannis Soldatos, George Karetsos, River Publishers, ISBN: 8792329020, 2008
- B\_5 "Symbian Based Test-bed Implementation of Wireless Cooperative Scenarios", in "Mobile Telephones: Networks, Applications, and Performance", editors Alvin C. Harper and Raymond V. Bures, Nova Science Publishers, 2008, ISBN: 978-1-60456-436-5
- B\_6 "Economic and Adaptive Admission Control of Non-Stationary Traffic in Wireless Multimedia Networks" in "Adaptation Techniques in Wireless Multimedia Networks", edited by Wei Li and Yang Xiao, Nova Science Publishers, Hardbound, 2007
- B\_7 "3G and WLAN interworking: perspective and open issues in the view of 4G platforms" in "Design and Analysis of Wireless Networks", edited by Yi Pan and Yang Xiao, Nova Science Publishers, Hardbound, 2005
- B\_8 "Internet access over satellites", in "Wireless Internet: Technologies and Applications", edited by Apostolis Salkintzis, Editor CRC Press 2004
- B\_9 "QoS Metrics for Performance Assessment in Integrated Terrestrial Satellite Systems" in "Quality and Reliability of Large Scale Telecommunications Systems", edited by Peter Stavroulakis, Ed. John Wiley & Sons, 2003, ISBN 0-470-84770-0, pp. 142-167.

### Guest Editor

- G\_1 Special Issue "Smart Things, Big Data Technology and Ubiquitous Computing Solutions for the Future Internet of Things" in the Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA), Vol. 6, No. 1., March 2015
- G\_2 Special issue "Internet of Things: the Next Big Thing in Communications?" in IEEE Wireless Communications Magazine, December 2010
- G\_3 Special issue Synergy of Space and Terrestrial Communications in Next-Generation Hybrid Wireless Systems in IEEE Wireless Communications Magazine, August 2005
- G\_4. Special issue QoS in Next-generation Wireless Multimedia Communications Systems in IEEE Wireless Communications Magazine, June 2003.

### Tutorials

#### Corso online IEEE

- T\_1. Tutorial "The Internet of Things moves into the Cloud" given at the IEEE International Conference on Cloud Engineering (IC2E) 2016, April 4-8, 2016, Berlin, Germany
- T\_2. Tutorial "Defining and analysing the Internet of Things in the age of Social Networks, Clouds, and Future Internet" given at the 13th Annual IEEE Consumer Communications & Networking Conference, 9th January 2016, Las Vegas, USA
- T\_3. Tutorial "Understanding the IoT evolution to master the upcoming IoT revolution" given at the European Wireless Conference, Budapest, 20th May 2015
- T\_4. Tutorial "The Social Internet of Things" given at the IEEE International Conference on Cloud Engineering, IC2E 2015 Conference, Tempe, AZ, US, 9th March 2015

- T\_5. Invited Lecturer (lecture title: Evolution of the Internet of Things in the age of Social Networks) at the IEEE Signal Processing Society Summer School on Internet of Things and Machine-to-Machine Systems, Taipei, Taiwan, August 26th 2014
- T\_6. Tutorial "The Convergence of Social and Sensor Networks in the Internet of Things: From Theory to Practice" given at the IEEE WCNC 2014 Conference, Istanbul, 6th april 2014
- T\_7. Tutorial "The Convergence of Social Networks and the Internet of Things: Opportunities Technologies and Challenges" given at the IEEE World Forum on IoT 2014, Seoul, 6th march 2014
- T\_8. Tutorial "When 'Social Networks' meet the 'Internet of Things':new communication paradigms for the Future Internet of trillions of objects" given at the 9th IWCMC 2013 Conference, Cagliari, 1st July 2013

### International Journals and Magazines:

- R1. Cicirelli F., Guerrieri A., Spezzano G., Vinci A., Briante O., Iera A., Ruggeri G. (2018), Edge Computing and Social Internet of Things for large-scale smart environments development, IEEE Internet of Things Journal, **accepted for publication**.
- R2. Farris I., Orsino A., Militano L., Iera A., Araniti G. (2018). Federated IoT services leveraging 5G technologies at the edge, Ad Hoc Networks, 68, 58-69.
- R3. Militano L., Orsino A., Araniti G., Iera A. (2017), NB-IoT for D2D-Enhanced Content Uploading with Social Trustworthiness in 5G Systems. Future Internet, 9(3), 31.
- R4. Morabito R., Farris I., Iera A., and Taleb T. (2017), "Evaluating Performance of Containerized IoT Services for Clustered Devices at the Network Edge", IEEE Internet of Things Journal, 4.4: 1019-1030
- R5. Campolo C., Molinaro A., Iera A., Menichella F. (2017), "5G Network Slicing for Vehicle-to-Everything Services", IEEE Wireless Communications Magazine, 24(6), 38-45
- R6. I. Farris, S. Pizzi, M. Merenda, A. Molinaro, R. Carotenuto, A. Iera (2017), "6lo-RFID: a Framework for Full Integration of Smart UHF RFID Tags into the Internet of Things", IEEE Network, 31.5: 66-73.
- R7. Araniti, G., Condoluci, M., Scopelliti, P., Molinaro, A., Iera, A. (2017), "Multicasting over Emerging 5G Networks: Challenges and Perspectives", IEEE Network, Volume: 31, Issue: 2, Pages: 80 – 89, DOI: 10.1109/MNET.2017.1600067NM
- R8. I. Farris, T. Taleb, H. Flinck, and A. Iera, (2017) "Providing Ultra-Short Latency to User-centric 5G Applications at the Mobile Network Edge", Transactions on Emerging Telecommunications Technologies, e3169. <https://doi.org/10.1002/ett.3169>
- R9. A. Orsino, A. Ometov, G. Fodor, D. Moltchanov, L. Militano, S. Andreev, O. N. C. Yilmaz, T. Tirronen, J. Torsner, G. Araniti, A. Iera, M. Dohler, and Y. Koucheryavy (2017), Effects of Heterogeneous Mobility on D2D-and Drone-Assisted Mission-Critical MTC in 5G. IEEE Communications Magazine, 55(2), 79-87.
- R10. Luigi Atzori, Antonio Iera, Giacomo Morabito, (2017), "Understanding the Internet of Things: definition, potentials, and societal role of a fast evolving paradigm", Ad Hoc Networks, Volume 56, 1 March 2017, Pages 122–140
- R11. G. Araniti, A. Orsino, L. Militano, L. Wang, A. Iera, (2016) "Context-aware Information Diffusion for Alerting Messages in 5G Mobile Social Networks", IEEE Internet of Things Journal ( Volume: 4, Issue: 2), DOI: 10.1109/JIOT.2016.2561839
- R12. I. Farris, L. Militano, M. Nitti, L. Atzori, A. Iera (2016), "MIFaaS: A Mobile-IoT-Federation-as-a-Service Model for dynamic cooperation of IoT Cloud Providers", Future Generation Computer Systems, Elsevier, Vol 70, pp 126-137: DOI information: 10.1016/j.future.2016.06.028
- R13. A Orsino, G Araniti, L Militano, J Alonso-Zarate, A Molinaro, A Iera (2016), "Energy efficient IoT data collection in smart cities exploiting D2D communications", Sensors 16 (6), 836 - doi:10.3390/s16060836
- R14. S Pizzi, M Condoluci, G Araniti, A Molinaro, A Iera, GM Muntean (2016), "A Unified Approach for Efficient Delivery of Unicast and Multicast Wireless Video Services", IEEE Transactions on Wireless Communications 15 (12), 8063-8076
- R15. I Farris, S Pizzi, A Molinaro, A Iera (2016), "Design and Implementation of a CoAP-Compliant Solution for RFID Inclusion in the Internet of Things", Journal of Sensor and Actuator Networks 5 (4), 16
- R16. Militano, L., Orsino, A., Araniti, G., Nitti, M., Atzori, L., Iera, A. (2016), "Trust-based and social-aware coalition formation game for multihop data uploading in 5G systems", Computer Networks, Elsevier, vol.111, pp. 141-151.
- R17. Condoluci, M., Araniti, G., Dohler, M., Iera, A., & Molinaro, A. (2016), "Virtual code resource allocation for energy-aware MTC access over 5G systems", Ad Hoc Networks, 43, 3-15.
- R18. L. Militano, M. Nitti, L. Atzori, A. Iera, (2016), "Enhancing the Navigability in a Social Network of Smart Objects: a Shapley-value based Approach", Computer Networks, Computer Networks, vol.103, pp. 1-14, 10.1016/j.comnet.2016.03.007
- R19. A. Ometov, A. Orsino, L. Militano, D. Moltchanov, G. Araniti, E. Olshannikova, G. Fodor, S. Andreev, T. Olsson, A. Iera, J. Torsner, Y. Koucheryavy, T. Mikkonen (2016), "Towards Trusted, Social-Aware D2D Connectivity: Bridging Across Technology and Sociality Realms", IEEE Wireless Communications, 23(4), 103-111
- R20. I. Farris, A. Iera, A. Molinaro and S. Pizzi, "A novel IPv6-based approach to exploit the potentials of UHF RFID for Smart Factory 4.0", IEEE COMSOC MMTc E-Letter <http://www.comsoc.org/~mmc> 24/39 Vol.10, No.5, September 2015
- R21. Marica Amadeo, Claudia Campolo, Josè Quevedo, Daniel Corujo, Antonella Molinaro, Antonio Iera, Rui Aguiar, Athanasios V. Vasilakos (2016), "Information-Centric Networking for the Internet of Things: Challenges and Opportunities", IEEE Network, 30(2), 92-100
- R22. Ivan Farris, Leonardo Militano, Antonio Iera and Silverio C. Spinella (2016), "Assessing the Performance of a Novel Tag-based Reader-to-Reader Communication Paradigm under Noisy Channel Conditions", IEEE Transactions on Wireless Communications, 15(7), 4813-4825
- R23. Leonardo Militano, Milan Erdelj, Antonella Molinaro, Nathalie Mitton, Antonio Iera (2016), "Recharging vs. Replacing Sensor Nodes Using Mobile Robots for Network Maintenance", Telecommunication Systems, Springer, 63(4), 625-642.
- R24. Militano, L.; Orsino, A.; Araniti, G.; Molinaro, A.; Iera, A. (2016), "A Constrained Coalition Formation Game for Multihop D2D Content Uploading", IEEE Transactions on Wireless Communications 15(3), 2012-2024, DOI: 10.1109/TWC.2015.2497682

- R25. Condoluci, M.; Araniti, G.; Molinaro, A.; Iera, A., (2016), "Multicast Resource Allocation Enhanced by Channel State Feedbacks for Multiple Scalable Video Coding Streams in LTE Networks", *IEEE Transactions on Vehicular Technology*, 65(5), 2907-2921, DOI: 10.1109/TVT.2015.2449080
- R26. Ivan Farris, Leonardo Militano, Antonio Iera, Antonella Molinaro, Silverio Carlo Spinella (2016), "Tag-based cooperative data gathering and energy recharging in wide area RFID sensor networks", *Ad Hoc Networks*, Volume 36, Part 1, Pages 214–228
- R27. Militano, L.; Araniti, G.; Condoluci, M.; Farris I.; Iera, A. (2015), "Device-to-Device Communications for 5G Internet of Things", *EAI Endorsed Transactions on Internet of Things*, vol. 1, <http://dx.doi.org/10.4108/eai.26-10-2015.150598>, november 2015
- R28. I. Farris, R. Girau, L. Militano, M. Nitti, L. Atzori, A. Iera, G. Morabito (2015), "Social Virtual Objects in the Edge Cloud: a key component for distributed IoT applications", *IEEE Cloud Computing Magazine*, ,2 (6), pp. 20-28
- R29. L. Militano, M. Condoluci, G. Araniti, A. Molinaro, A. Iera, G.M. Muntean (2015), "Single frequency-based device-to-device-enhanced video delivery for evolved multimedia broadcast and multicast services", *IEEE Transactions on Broadcasting*, Volume: 61, Issue: 2 Pages: 263 - 278, DOI: 10.1109/TBC.2015.2400824
- R30. G. Araniti, M. Condoluci, M. Cotronei, A. Iera (2015), "A Solution to the Multicast Subgroup Formation Problem in LTE Systems", *IEEE Wireless Communications Letters*, Volume:4, Issue: 2, pp. 149-152, April 2015
- R31. L. Atzori, A. Iera and G. Morabito (2015), "Social Internet of Things: Turning Smart Objects into Social Objects to Boost the IoT", *IEEE IoT Newsletter*, November 11, 2015,
- R32. L. Militano, D. Niyato, M. Condoluci, G. Araniti, A. Iera, and G. M. Bisci (2015), "Radio resource management for group-oriented services in LTE-Advanced", *IEEE Transactions on Vehicular Technology*, Volume: 64, Issue: 8, Pages: 3725 - 3739, DOI: 10.1109/TVT.2014.2359686.
- R33. L. Militano, M. Condoluci, G. Araniti, A. Molinaro, A. Iera (2014), "When D2D Communication Improves Group Oriented Services in Beyond 4G Networks", *Wireless Networks*, Springer, 1-15, 2014
- R34. O. Briante, C. Campolo, A. Iera, A. Molinaro, S. Y. Paratore, G. Ruggeri (2014), "Supporting Augmented Floating Car Data through Smartphone-based Crowd-Sensing", *Vehicular Communications Magazine*, Elsevier, Vol. 1, Issue 4 . pp. 181-196.
- R35. L. Atzori, D. Carboni, and A. Iera (2014), "Smart Things in the Social Loop: Paradigms, Technologies, and Potentials", *Ad Hoc Networks* (2014), Elsevier, Volume 18, July 2014, Pages 121–132, available online since March 2013; ISSN: 1570-8705
- R36. L. Atzori, A. Iera, and G. Morabito (2014), From "smart objects" to "social objects": The next evolutionary step of the internet of things, *Communications Magazine*, IEEE (Volume:52 , Issue: 1 ), pp. 97 – 105; issn: 0163-6804 ,
- R37. G. Araniti, M. Condoluci, A. Iera, A. Molinaro, J. Cosmas, M. Behjati (2014), "A Low-Complexity Resource Allocation Algorithm for Multicast Service Delivery in OFDMA Networks", *IEEE Transactions on Broadcasting*, Volume:60 , Issue: 2, pp. 358-369, June 2014
- R38. L. Militano, A. Iera, A. Molinaro, and F. Scarcello (2014), Energy Saving Analysis in Cellular-WLAN Cooperative Scenarios, *IEEE Transaction on Vehicular Technology*, Vehicular Technology, *IEEE Transactions on* (Volume:63 , Issue: 1 ); issn: 0018-9545
- R39. Leonardo Militano, Antonella Molinaro, Antonio Iera, and Ármin Petkovic (2013), A Game Theoretic Approach to Guarantee Fairness in Cooperation Among Green Mobile Network Operators, *THE INTERNATIONAL JOURNAL OF BUSINESS DATA COMMUNICATIONS AND NETWORKING (IJBDCN)*, Volume 9, Issue 3; issn: 1548-0631 .
- R40. Giuseppe Araniti, Massimo Condoluci, Antonio Iera, Leonardo Militano, Bruno Antonio Pansera (2013), Analytical modeling of bargaining solutions for multicast cellular services, *Electron. J. of Differential. Equations*, Vol. 2013, No. 165, pp. 1-10; issn: 1072-6691
- R41. I. Farris, A. Iera, S. C. Spinella, Introducing a novel "virtual communication channel" into RFID ecosystems for IoT, *IEEE COMMUNICATIONS LETTERS*, *Communications Letters*, IEEE (Volume:17 , Issue: 8 ), 2013, pp. 1532 – 1535; issn: 1089-7798
- R42. E. Del Re, S. Morosi, S. Jayousi, L. Ronga, E. Cianca, M. De Sanctis, E. Falletti A. Iera, G. Araniti, C. Sacch (2013), SALICE project: Satellite-Assisted Localization and Communication systems for Emergency services, *IEEE Aerospace and Electronic Systems Magazine*, *Aerospace and Electronic Systems Magazine*, IEEE 28 (9), pp. 4-15; issn: 0885-8985.
- R43. G. Araniti, M. Condoluci, L. Militano, A. Iera (2013), Adaptive Resource Allocation to Multicast Services in LTE Systems, *IEEE Transaction on Broadcasting*, 59 (4), pp. 658-664; ISBN: 0018-9316
- R44. G. Araniti, C. Campolo, M. Condoluci, A. Iera, A. Molinaro (2013), LTE for Vehicular Networking: A Survey, *IEEE Communications Magazine*, IEEE, 51.5, pp. 148-157; ISSN: 0163-6804
- R45. L. Militano, A. Iera, and F. Scarcello (2013), "A Fair Cooperative Content-Sharing Service", *Computer Networks* 57 (9), Elsevier, pp. 1955-1973; ISSN: 1389-1286
- R46. Chiara Sammarco, Antonio Iera (2012), Improving the service management in the Internet of Things, *Sensors*, 12(9), 11888-11909.
- R47. Luigi Atzori, Antonio Iera, Giacomo Morabito, Michele Nitti (2012), The Social Internet of Things (SIoT) – When social networks meet the Internet of Things: Concept, architecture and network characterization, Elsevier *Computer Networks*, Volume 56, Issue 16, ISSN: 1389-1286
- R48. Campolo C, Iera A, Militano L, Molinaro A (2012). Scenario-adaptive and gain-aware content sharing policies for cooperative wireless environments, *Computer Communications*, Elsevier, vol. Volume 35, p. 1259-1271, ISSN: 0140-3664
- R49. Luigi Atzori, Antonio Iera, Giacomo Morabito (2011), "S-IoT, Giving a Social Structure to the Internet of Things", *IEEE Communications Letters*, vol. 15, p. 1193 -1195 , ISSN: 1089-7798,
- R50. Antonio Iera, Leonardo Militano, Luca Paolo Romeo, and Francesco Scarcello (2011), Fair Cost Allocation in Cellular-Bluetooth Cooperation Scenarios, *IEEE Transactions on Wireless Communications*, Volume 10, Issue 8, ISSN: 1536-1276
- R51. Antonio Iera, Antonella Molinaro, Stefano Yuri Paratore, Giuseppe Ruggeri (2011), Making a mesh router/gateway from a smartphone: Is that a practical solution?, *Ad-Hoc Networks*, Elsevier , Volume 9 Issue 8, ISSN: 1570-8705

- R52. Giuseppe Araniti, Antonio Iera, Antonella Molinaro (2010), "Effective service delivery and group management in integrated terrestrial-HAP systems for multicast communications", *Wireless Communications and Mobile Computing*, Published by Wiley InterScience, Vol-10- Issue 9; p. 1173-1185, ISSN: 1530-8669
- R53. Luigi Atzori, Antonio Iera, Giacomo Morabito (2010), "The internet of Things: a survey", *Elsevier Computer Networks*, October 2010, ISSN: 1389-1286
- R54. Leonardo Militano, Frank H.P. Fitzek, Antonio Iera, and Antonella Molinaro (2010), "Network Coding and Evolutionary Theory for Performance Enhancement in Wireless Cooperative Clusters", *European Transactions on Telecommunications ETT*, Article first published online DOI: 10.1002/ett.1435; ISSN: 1124-318X
- R55. Silverio C. Spinella, Antonio Iera, Antonella Molinaro (2010), "On potentials and limitations of a Hybrid WLAN-RFID indoor positioning technique", *International Journal of Navigation and Observation*, ISSN: 1687-5990, DOI: 10.1155/IJNO
- R56. Giuseppe Araniti, Antonio Iera, Antonella Molinaro (2009), "DVB-H Systems: Quality-Based Active Handoff Assisted by UMTS Return Channels", *Wireless Personal Communications Journal*, Springer, ISSN: 0929-6212
- R57. Antonio Iera, Antonella Molinaro, Sergio Polito, Giuseppe Ruggeri (2008), "A Multi-Layer Cooperation Framework for QoS-Aware Internet Access in Vanets", (invited) *Ubiquitous Computing and Communication Journal*.
- R58. A. Jebri, M. Lucente, M. Ruggieri, T. Rossi, Antonio Iera, Antonella Molinaro, Salvatore Pulitano, Claudio Sacchi, L. Zuliani (2008), Experimental Missions in W-Band: a Small LEO Satellite Approach, Special Issue of *IEEE Systems Journal* on "Recent Advances in Global Navigation and Communication Satellite Systems (GNSS)".
- R59. Antonio Iera, Antonella Molinaro, and Sara Pizzi (2007), "Channel-Aware Scheduling for QoS and Fairness Provisioning in IEEE 802.16/WiMAX Broadband Wireless Access Systems", *IEEE Network*, Vol. 21 No.5
- R60. G. Araniti, A. Iera, P. De Meo, D. Ursino (2007), "WAQM: managing QoS in Wireless Networks by means of an XML-based multiagent system", *International Journal of Wireless and Mobile Computing*, Vol. 2, no. 2/3, pp.132-149.
- R61. A. Iera, A. Molinaro, C. Campolo (2007), New Concept Platforms for QoS Management in Future Telecommunication Scenarios, *International Journal of Wireless Information Networks*, Springer, Netherlands, Volume 14, N. 2, pp. 79-91(13)
- R62. A. Iera, A. Molinaro, A. Pudano, and D. Ursino (2006), "Scenario"-adaptivity for e-service management in heterogeneous networks, (invited) *African Journal of Information and Communication Technology (AJICT)*, Vol. 2, n. 1
- R63. Antonio Iera, Antonella Molinaro, Sergio Polito, and Giuseppe Ruggeri (2005), "End-to-End QoS Provisioning in 4G with Mobile Hotspots", *IEEE Network*, Vol. 19 No.5
- R64. Antonio Iera, Antonella Molinaro, Giuseppe Ruggeri, and Domenico Tripodi (2005), "Improving QoS and Throughput in Single- and Multihop WLANs through Dynamic Traffic Prioritization", *IEEE Network*, Vol. 19 No.4
- R65. Antonio Iera, Giuseppe Ruggeri, Domenico Tripodi (2005), "Providing Throughput Guarantees in 802.11e WLAN Through a Dynamic Priority Assignment Mechanism", *Kluwer Wireless Personal Communications Journal*, Special Issue on Advances on Wireless LANs and PANS, Volume 34, Numbers 1-2, 109 – 125
- R66. D. Ursino, P. De Meo, G. Terracina, A. Iera (2005), "A Multi-Agent System for managing the Quality of Service in telecommunications networks", *Journal of Systems Science and Systems Engineering*, Springer-Verlag GmbH, Vol. 14, no. 2.
- R67. G. Araniti, A. Iera, and A. Molinaro (2005), The Role of HAPs in Supporting Multimedia Broadcast and Multicast Services in Terrestrial-Satellite Integrated Systems, *Wireless Personal Communications Journal*, Springer, Special Issue on "High Altitude Platforms: Research and Application Activities", pp. 195-213, Vol. 32, No. 3-4.
- R68. A. Iera, A. Molinaro, P. Pace, and S. Marano (2005), Dimensioning and Effective Handling the Signalling Channels in a Multimedia GEO Satellite Platform, *IEEE Transactions on Vehicular Technology*, pp. 550-567, Vol. 54, n. 2.
- R69. A. Iera, G. Ruggeri, S. Polito (2005), "802.11 based Wireless-LAN and UMTS interworking: requirements, proposed solutions and open issues", *Elsevier Journal on Computer Networks* special Issue on Wireless IP Through Integration of Wireless LAN and Cellular Networks, Vol. 47/2, pp. 151-166
- R70. A. Iera, G. Araniti, A. Modafferi (2004), "QoS Guarantees in Heterogeneous Systems Consisting of IP Core Networks with Satellite Access", *ACM Mobile Networks and Applications Journal (MONET)*, vol.9,n.3.
- R71. A. Iera, P. De Meo, G. Araniti, D. Ursino (2003), "Adaptively Controlling the QoS of Multimedia Wireless Applications Through "User Profiling" Techniques", *IEEE Journal on Selected Areas in Communications*, J-SAC, 4<sup>th</sup> quarter.
- R72. A. Iera, A. Molinaro, G. Araniti, S. Pulitano (2003), "Managing IP Traffic in Radio Access Networks of next-generation Mobile Systems", *IEEE Wireless Communications Magazine*, vol. 10, no. 4.
- R73. A. Iera, A. Molinaro, E. Natalizio and S. Marano (2003), "Call Management Based on the Mobile Terminal Peak Velocity: Virtues and Limitations in a Two-tier Cellular System", *IEEE Transactions on Vehicular Technology*, vol 52, n. 4.
- R74. A. Iera, A. Molinaro, S. Marano (2002), "Geostationary Satellite Platforms For Multimedia Communications: Signalling Issues", (invited paper), *ASSI Satellites Communications Letter*, vol. 2, no. 2, pp. 1-10.
- R75. Antonio Iera, Antonella Molinaro, and Salvatore Marano (2003), "Introducing the Adaptive-QoS Idea into Multi-Tier UMTS Systems: the Lesson Learned", *Kluwer International Journal of Wireless Personal Communications*, Special Issue on Broadband Mobile Terrestrial-Satellite Integrated Systems, Issue 24:2, pp. 141-169.
- R76. Antonio Iera, Antonella Molinaro, and Salvatore Marano (2002), "Handoff Management with Mobility Estimation in Hierarchical Systems", *IEEE Transactions on Vehicular Technology*, vol. 51, no. 5, pp. 915-934.
- R77. A. Iera, A. Molinaro, G. Araniti (2002), "Exploiting hierarchical terrestrial-satellite architectures to handle voice, symmetric data, and asymmetric data connections", *Elsevier Journal of Computer Networks*, Volume 38, Issue 4, pp. 461-475.
- R78. A. Iera, A. Molinaro (2002), "Designing the internetworking of terrestrial and satellite IP-based networks", *IEEE Communications Magazine*, Feature Topic on Next Generation Broadband Wireless Networks and Navigation Services, Vol. 40, N. 2, pp. 136-144
- R79. A. Iera, A. Molinaro, S. Marano (2002), "Traffic Management Techniques to Face the Effects of Intrinsic Delays in Geostationary Satellite Networks", *IEEE Transactions on Wireless Communications*, vol. 1, no. 1, pp. 145-155.
- R80. A. Iera, A. Molinaro, S. Marano (2001), "IP with QoS Guarantees via GEO Satellite Systems", *IEEE Personal Communications Magazine*, vol. 8, N. 3, pp. 14-19.

- R81. A. Iera, S. Marano (2000), "D-RMA: A Dynamic Reservation Multiple Access Protocol for Third Generation Cellular System", *IEEE Transactions on Vehicular Technology*, vol. 49, no. 5, pp. 1599-1605.
- R82. A. Iera, A. Molinaro, S. Marano (2000), "Call Admission Control and Resource Management Issues for real-Time VBR Traffic in ATM-Satellite Networks", *IEEE Journal on Selected Areas in Communications*, Wireless Communications Series, vol. 18, no. 11, pp. 2393-2403.
- R83. A. Iera, A. Molinaro, S. Marano, D. Mignolo (2000), "Integration of ATM and Satellite Networks: Traffic Management Issues", *IEICE Transactions on Communications*, *IEICE/IEEE joint special issue on "Recent advances in ATM technology"*, vol. E83-B, n.2, pp. 321-329.
- R84. A. Iera, A. Molinaro, S. Marano (2000), "Managing Symmetric and Asymmetric Data Traffic in Integrated Terrestrial-Cellular and Satellite Systems", *IEEE Personal Communications Magazine*, Feature Topic on The Evolution of Mobile Data Networking, vol. 7, n. 2, pp. 56-64.
- R85. A. Iera, S. Marano, A. Molinaro (1999), "Wireless Broadband Applications: Teleservice Model and Adaptive-QoS Provisioning", *IEEE Communications Magazine*, Feature Topic in Broadband Technologies and Trials, vol. 37, n. 10, pp. 71-75.
- R86. A. Iera, S. Marano, A. Molinaro (1999), "An Architectural Framework for Multimedia Integrated Wired-Wireless Systems", *ETT European Transactions on Telecommunications*, vol. 10, n. 5, pp. 473-486.
- R87. A. Iera, S. Marano, A. Molinaro, M. Petrone (1999), "QoS for Multimedia Applications in Satellite Systems" *IEEE Multimedia Magazine* special issue on " Mobile Multimedia Satellite Systems", vol. 6, n. 4, pp.46-53.
- R88. A. Iera, S. Marano, R. Beraldi (1998), "A Modified Fast Buffer Reservation Algorithm (M-FBR) for Congestion Control in ATM Networks", *ETT European Transactions on Telecommunications*, vol. 9, n. 3, pp. 229-236.
- R89. A. Iera, S. Marano, A. Molinaro (1998), "A Layered Protocol Architecture for Multimedia Wireless-PCS Systems", *ACM MONET Mobile Networks and Applications Journal*, special Issue on Mobile Multimedia Communications, vol. 3, pp. 73-87.
- R90. A. Iera, S. Marano, A. Molinaro (1997), "Synchronisation Architecture for Multimedia Services in Mobile Radio Environments", *International Journal of Wireless Information Networks*, Plenum Publisher, vol. 4, n. 4, pp.233-247.
- R91. A. Iera, S. Marano, A. Molinaro (1996), "Transport and Control Issues in Multimedia Wireless Networks", *ACM Wireless Networks Journal*, ACM/Baltzer Science Publisher, special issue on *Wireless Multimedia Networking*, vol. 2, pp. 249-261.

## International Conferences

- C1. Atzori L., Campolo C., Da B., Iera A., Morabito G., Pillay Esnault P., Quattropani S., Leveraging social notions to improve ID-to-locator mapping in IoT Identity Oriented Networks, Proceedings of the IEEE 4th World Forum on Internet of Things, 05-08 February 2018 – Singapore
- C2. Orsino A., Araniti G., Scopelliti P., Gudkova I. A., Samouylov K. E., Iera, A. (2017). Optimal subgroup configuration for multicast services over 5G-satellite systems. In *Broadband Multimedia Systems and Broadcasting (BMSB)*, 2017 IEEE International Symposium on (pp. 1-6). IEEE.
- C3. Araniti G., Orsino A., Militano L., Putrino G., Andreev S., Koucheryavy Y., Iera, A. (2017). Novel D2D-based relaying method for multicast services over 3GPP LTE-A systems. In *Broadband Multimedia Systems and Broadcasting (BMSB)*, 2017 IEEE International Symposium on (pp. 1-5). IEEE.
- C4. Scopelliti P., Araniti G., Muntean G. M., Molinaro A., Iera, A. (2017). A hybrid unicast-multicast utility-based network selection algorithm. In *Broadband Multimedia Systems and Broadcasting (BMSB)*, 2017 IEEE International Symposium on (pp. 1-6). IEEE.
- C5. Ostrikoval D., Rinaldi F., Beschastnyi V., Gudkova I., Militano L., Araniti G., Iera A., Samouylov K., Analytical Model for Multicast Subgrouping in 5G-Mobile eMBMS Environment, 2017 9th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT), Munich, November 6-8, 2017
- C6. Orsino A., Farris I., Militano L., Araniti G., Andreev S., Gudkova I., Koucheryavy Y., Iera A. (2017). Exploiting D2D Communications at the Network Edge for Mission-Critical IoT Applications, in *Proceedings of the 23th European Wireless Conference* (pp. 1-6), May 17-19, Dresden.
- C7. Marche C., Atzori L., Iera A., Militano L., Nitti M., (2017), Navigability in Social Networks of Objects: the Importance of Friendship Type and Nodes' Distance, *Proceedings of IEEE GLOBECOM 2017 Workshops: IEEE Workshop on Low Power Wide Area networking technologies for emerging Internet of Things*, 4-8 December, Singapore.
- C8. Galinina O., Militano L., Orsino A., Andreev S., Araniti G., Iera A., Koucheryavy Y. (2017, May). Comparing Customer Taste Distributions in Vertically Differentiated Mobile Service Markets. In *International Conference on Game Theory for Networks* (pp. 141-153). Springer, Cham.
- C9. Cicirelli F., Guerrieri A., Spezzano G., Vinci A., Briante O., Iera A., Ruggeri G. (2017). An edge-based approach to develop large-scale smart environments by leveraging SloT. In *Networking, Sensing and Control (ICNSC)*, 2017 IEEE 14th International Conference on (pp. 738-743). IEEE.
- C10. Bruschi R., Genovese G., Iera A., Lago P., Lamanna G., Lombardo C., Mangialardi S. (2017, September). OpenStack Extension for Fog-Powered Personal Services Deployment. In *2017 29th IEEE International Teletraffic Congress (ITC 29)*, (Vol. 2, pp. 19-23).
- C11. Farris I., Taleb T., Iera A., Flinck H. (2017). Lightweight service replication for ultra-short latency applications in mobile edge networks. *IEEE ICC 2017 Mobile and Wireless Networking*, 2017, 2017.
- C12. Farris I., Orsino A., Militano L., Nitti M., Araniti G., Atzori L., Iera A. (2017). Federations of connected things for delay-sensitive IoT services in 5G environments. In *Communications (ICC)*, 2017 IEEE International Conference on (pp. 1-6). IEEE.

- C13. Orsino, A., Araniti, G., Wang, L., Iera, A. (2016), Enhanced C-RAN architecture supporting SDN and NFV functionalities for D2D communications, 19th International Conference on Distributed Computer and Communication Networks, DCCN 2016, Moscow; Russian Federation; 21 November 2016 - 25 November 2016
- C14. Orsino, A., Militano, L., Araniti, G., & Iera, A. (2016). Social-aware Content Delivery with D2D Communications Support for Emergency Scenarios in 5G Systems. In European Wireless 2016; 22th European Wireless Conference; Proceedings of (pp. 1-6). VDE.
- C15. Araniti, G., Orsino, A., Cosmas, J., Molinaro, A., & Iera, A. (2016). A low computational-cost subgrouping multicast scheme for emerging 5G-satellite networks. In Broadband Multimedia Systems and Broadcasting (BMSB), 2016 IEEE International Symposium on (pp. 1-6). IEEE.
- C16. Orsino, A., Araniti, G., Wang, L., & Iera, A. (2016). Multimedia content diffusion approach for emerging 5G mobile social networks. In Broadband Multimedia Systems and Broadcasting (BMSB), 2016 IEEE International Symposium on (pp. 1-6). IEEE.
- C17. Scopelliti, P., Araniti, G., Muntean, G. M., & Iera, A. (2016). Mobility-aware energy-quality trade-off for video delivery in dense heterogeneous networks. In Broadband Multimedia Systems and Broadcasting (BMSB), 2016 IEEE International Symposium on (pp. 1-6). IEEE.
- C18. Militano, L., Orsino, A., Araniti, G., Nitti, M., Atzori, L., & Iera, A. (2016). Trusted D2D-based data uploading in in-band narrowband-IoT with social awareness. In Personal, Indoor, and Mobile Radio Communications (PIMRC), 2016 IEEE 27th Annual International Symposium on (pp. 1-6). IEEE.
- C19. Ivan Farris, Corrado Felini, Sara Pizzi, Massimo Merenda, Antonio Iera, Francesco Della Corte and Antonella Molinaro (2015), Enabling Communication Among Smart Tags in an UHF RFID Local Area Network, IEEE 2nd World Forum on Internet of Things (WF-IoT), 14-16 December 2015, Milan
- C20. Ivan Farris, Leonardo Militano, Michele Nitti, Luigi Atzori, Antonio Iera (2015), Federated Edge-assisted Mobile Clouds for Service Provisioning in Heterogeneous IoT Environments, IEEE 2nd World Forum on Internet of Things (WF-IoT), 14-16 December 2015, Milan
- C21. Ivan Farri, Roberto Girau, Michele Nitti, Luigi Atzori, Roberto Bruschi, Antonio Iera, Giacomo Morabito (2015), Taking the SLoT Down From the Cloud: Integrating the Social Internet of Things in the INPUT Architecture, IEEE 2nd World Forum on Internet of Things (WF-IoT), 14-16 December 2015, Milan
- C22. George Lyberopoulos, Eleni Theodoropoulou, Ioanna Mesogiti, Konstantinos Filis, Roberto Bruschi, Paolo Lago, Chiara Lombardo, Luigi Atzori, Antonio Iera, Giacomo Morabito (2015), INPUT: A Distributed Cloud Infrastructure for Intelligent Transport Systems, 19th International Conference on Circuits, Systems, Communications and Computers (CSCC 2015), At Zakynthos island, Greece
- C23. M Amadeo, C Campolo, A Iera, A Molinaro (2015), Information Centric Networking in IoT scenarios: The case of a smart home, Proceedings of the 2015 IEEE International Conference on Communications, 8-12 June, London, UK
- C24. L. Militano, M. Nitti, L. Atzori, A. Iera, Using a Distributed Shapley-value Based Approach to Ensure Navigability in a Social Network of Smart Objects (2015), Proceedings of the 2015 IEEE International Conference on Communications, 8-12 June, London, UK
- C25. Araniti, G., Condoluci, M., Orsino, A., Iera, A., & Molinaro, A. (2015). Effective Resource Allocation in 5G-Satellite Networks, Proceedings of the 2015 IEEE International Conference on Communications, 8-12 June, London, UK.
- C26. Araniti, G., Condoluci, M., Orsino, A., Iera, A., Molinaro, A., & Cosmas, J. (2015), Evaluating the Performance of Multicast Resource Allocation Policies over LTE Systems, Proceedings of the IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB), 17-19 June, Ghent, Belgium.
- C27. M. Condoluci, S. Pizzi, G. Araniti, A. Molinaro, A. Iera, and G M Muntean (2015), On the management of unicast and multicast services in LTE networks, Proceedings of the IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB), 17-19 June, Ghent, Belgium
- C28. Militano, L., Orsino, A., Araniti, G., Molinaro, A., Iera, A., & Wang, L. (2015). Efficient Spectrum Management Exploiting D2D Communication in 5G Systems, Proceedings of the IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB), 17-19 June, Ghent, Belgium
- C29. Orsino, A., Militano, L., Araniti, G., Molinaro, A., & Iera, A. (2015). Efficient Data Uploading Supported by D2D Communications in LTE-A Systems, European Wireless 2015, 20-22 MAY, Budapest, HUNGARY.
- C30. Militano, L., Orsino, A., Araniti, G., Molinaro, A., & Iera, A. (2015). Overlapping coalitions for D2D-supported data uploading in LTE-A systems, Proceedings of the IEEE 26th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC), (pp. 1526-1530), Hong Kong, 30 Aug-2 Sept.
- C31. Sara Pizzi, Massimo Condoluci, Giuseppe Araniti, Antonella Molinaro, Antonio Iera (2015), A Novel Approach for Unicast and Multicast Traffic Management in Wireless Networks, The 81st IEEE Vehicular Technology Conference, 11-14 may, Glasgow, Scotland
- C32. Orsino, A., Araniti, G., Molinaro, A., & Iera, A. (2015). Effective RAT Selection Approach for 5G Dense Wireless Networks, The 81st IEEE Vehicular Technology Conference, 11-14 may, Glasgow, Scotland
- C33. Farris, I., Iera, A., Molinaro, A., & Pizzi, S. (2014, December). A CoAP-compliant solution for efficient inclusion of RFID in the Internet of Things. In Global Communications Conference (GLOBECOM), 2014 IEEE (pp. 2795-2800). IEEE.

- C34. Araniti, G., Cosmas, J., Iera, A., Loiacono, A., Molinaro, A., & Orsino, A. (2014, June). Power consumption model using green policies in Heterogeneous Networks. In *Broadband Multimedia Systems and Broadcasting (BMSB), 2014 IEEE International Symposium on* (pp. 1-5). IEEE.
- C35. Araniti, G., Cosmas, J., Iera, A., Molinaro, A., Morabito, R., & Orsino, A. (2014, June). OpenFlow over wireless networks: Performance analysis. In *Broadband Multimedia Systems and Broadcasting (BMSB), 2014 IEEE International Symposium on* (pp. 1-5). IEEE.
- C36. Araniti, G., Cosmas, J., Iera, A., Molinaro, A., Orsino, A., & Scopelliti, P. (2014, June). Energy efficient handover algorithm for green radio networks. In *Broadband Multimedia Systems and Broadcasting (BMSB), 2014 IEEE International Symposium on* (pp. 1-6). IEEE.
- C37. Amadeo, M., Campolo, C., Iera, A., & Molinaro, A. (2014, June). Named data networking for IoT: An architectural perspective. In *Networks and Communications (EuCNC), 2014 European Conference on* (pp. 1-5). IEEE.
- C38. Farris, I., Iera, A., Militano, L., & Spinella, S. C. (2014, June). Performance evaluation of RFID tag-based "virtual" communication channels. In *Communications (ICC), 2014 IEEE International Conference on* (pp. 2897-2902). IEEE.
- C39. Militano, L., Condoluci, M., Araniti, G., Molinaro, A., Iera, A., & Fitzek, F. H. (2014, June). Wi-Fi cooperation or D2D-based multicast content distribution in LTE-A: A comparative analysis. In *Communications Workshops (ICC), 2014 IEEE International Conference on* (pp. 296-301). IEEE.
- C40. Arbia Riahi, Enrico Natalizio, Yacine Challal, Nathalie Mitton, Antonio Iera, A systemic and cognitive approach for IoT security, *International Conference on Computing, Networking and Communications (ICNC 2014)*, Honolulu, Hawaii, Feb. 3-6, 2014
- C41. Hamid Zargari Asl, Antonio Iera, Luigi Atzori, Giacomo Morabito, How often social objects meet each other? Analysis of the properties of a social network of IoT devices based on real data, accepted for publication in the proceedings of the IEEE GLOBECOM Conference 2013, 9-13 December, Atlanta, GA. 2013
- C42. Claudia Campolo, Antonio Iera, Antonella Molinaro, Stefano Yuri Paratore, Giuseppe Ruggeri, SMaRTCaR: An Integrated Smartphone-based Platform to Support Traffic Management and Efficiency Applications, *Wireless Days 2013*, 13-15 Nov 2013, Valencia, Spain
- C43. M. Condoluci, L. Militano, G. Araniti, A. Molinaro, A. Iera, Exploiting Frequency-Selectivity in Real-Time Multicast Services over LTE Networks, *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2013*, 8-11 September, London, 2013
- C44. Leonardo Militano, Massimo Condoluci, Giuseppe Araniti, Antonio Iera, Multicast Service Delivery Solutions in LTE-Advanced Systems, *IEEE Icc 2013 Conference*, Hungary, June 9 – 13, 2013
- C45. M. Condoluci, G. Araniti, A. Molinaro, A. Iera, On the Impact of Frequency Selectivity on Multicast Subgroup Formation in 4G Networks, *IEEE International Symposium on Broadband Multimedia Systems and Broadcasting 2013*, Uxbridge, West London, June 4th-7th, 2013
- C46. G. Araniti, M. Condoluci, A. Molinaro, A. Iera, J. Cosmas, Low complexity subgroup formation in LTE systems, *IEEE International Symposium on Broadband Multimedia Systems and Broadcasting 2013*, Uxbridge, West London, June 4th-7th, 2013
- C47. O. Briante, C. Campolo, A. Iera, A. Molinaro, S.Y. Paratore, G. Ruggeri, M.J. Booyesen, ItsPhone: An Integrated Platform for Participatory ITS Data Collection and Opportunistic Transfer, *IEEE INFOCOM'13*, The 32nd IEEE International Conference on Computer Communications, April 14-19, 2013 - Turin, Italy
- C48. Ivan Farris, Antonio Iera, Silverio C. Spinella, A novel paradigm to exchange data in RFID piconets, *RFID (RFID), 2013 IEEE International Conference on*, Orlando, FL, USA, April 30 2013-May 2 2013
- C49. Ivan Farris, Antonio Iera, Silverio C. Spinella, Using the RFID technology to create a low-cost communication channel for data exchange, *Proceedings of the ITU Kaleidoscope: Building Sustainable Communities (K-2013)*, 22-24 April 2013, Kyoto, JP, 2013
- C50. Araniti G, Condoluci M, Iera A (2012). Adaptive multicast scheduling for HSDPA networks in mobile scenarios. In: *Proceedings of the 2012 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB)*. IEEE, Seoul, 27-29 June
- C51. Militano L, Molinaro A, Iera A, Petkovics A (2012). Introducing fairness in cooperation among Green mobile network operators. In: *Proceedings of the 2012 20th International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, . IEEE
- C52. Campolo C, Iera A, Molinaro A, Paratore S Y, Ruggeri G (2012). SMaRTCaR: An integrated smartphone-based platform to support traffic management applications. In: *Proceedings of the 2012 First International Workshop on Vehicular Traffic Management for Smart Cities (VTM)*, p. 1-6, IEEE, Dublin, Ireland, November 21-23
- C53. Araniti G, Scordamaglia V, Condoluci M, Molinaro A, Iera A (2012). Efficient Frequency Domain Packet Scheduler for Point-to-Multipoint Transmissions in LTE Networks. In: *The 2012 IEEE International Conference on Communications (ICC 2012)*. 10-15 June 2012.
- C54. Militano L, Condoluci M, Araniti G, Iera A (2012). Bargaining Solutions for Multicast Subgroup Formation in LTE. In: *The 2012 IEEE 76th Vehicular Technology Conference*. Québec City, Canada, 3-6 September 2012
- C55. Militano L, Iera A (2012). Adopting Bargaining Solutions for Bluetooth-based User Cooperation. In: *2012 IEEE 23rd International Symposium on Personal, Indoor and Mobile Radio Communications - (PIMRC 2012)* . Sydney, Australia, 9-12 September, 2012
- C56. Nitti M, Girau R, Atzori L, Iera A, Morabito G (2012). A Subjective Model for Trustworthiness Evaluation in the Social Internet of Things. In: *IEEE PIMRC 2012 International Workshop on Internet-of-Things Communications and Networking (IoT-CN2012)*. Sydney, Australia, 9-12 September, 2012
- C57. Atzori L, Iera A, Morabito G (2011). Making things socialize in the Internet — Does it help our lives?. In: *Kaleidoscope 2011: The Fully Networked Human? - Innovations for Future Networks and Services (K-2011)*, Proceedings of ITU.



- C58. Raschellà A, Araniti G, Umberto A, Iera A, Molinaro A (2011). Performance Analysis of Satellite-HSDPA Transmissions in Emergency Networks. In: Personal Satellite Services Third International ICST Conference, PSATS 2011, Malaga, Spain, February 17-18, 2011
- C59. Antonio Iera, Antonella Molinaro, Stefano Yuri Paratore, Rocco Ranieri, Giuseppe Ruggieri, "Extending the Access Network through Mesh-Phones: A practical perspective", The 30th Annual IEEE International Conference on Computer Communications (IEEE INFOCOM 2011)
- C60. Leonardo Militano, Frank H.P. Fitzek, Antonio Iera, Antonella Molinaro, "Group Interactions in Wireless Cooperative Networks", 2011 IEEE 73rd Vehicular Technology Conference: VTC2011-Spring, 15-18 May 2011, Budapest, Hungary
- C61. G. Araniti, V. Scordamaglia, A. Molinaro, A. Iera, "Optimizing Point-to-Multipoint transmissions in High Speed Packet Access Networks", IEEE 61st Annual Broadcast Symposium (BTS), BTS'11, 19-21 October, Alexandria, VA, USA
- C62. M. Amadeo, G. Araniti, A. Iera, and A. Molinaro, "A Satellite-LTE network with delay-tolerant capabilities: design and performance evaluation", IEEE 74th Vehicular Technology Conference VTC Fall 2011, 5-8 September, S. Francisco USA
- C63. G. Araniti, M. Condoluci, A. Molinaro, A. Iera, 'A Cooperative Framework for Reliable Multicast Forwarding in Mobile Ad hoc Networks', paper invited in IEEE Workshop on Wireless Ad hoc and Sensor Networks (WWASN) 2010, in ICDCS 2010 (International Conference on Distributed Computing Systems), June 25, 2010, Genoa, Italy.
- C64. A. Iera, L. Militano, A. Molinaro, F.H.P. Fitzek, 'A Genetic Algorithm for Source Election in Cooperative Clusters Implementing Network Coding', IEEE International Communications Conference (ICC), 2010, Workshop on Cooperative and Cognitive Mobile Networks (CoCoNet3), 23-27 May 2010, Cape Town, South Africa.
- C65. S. Pizzi, A. Molinaro, A. Iera, "On The effectiveness of AMC and channel awareness for the scheduling performance in WiMAX networks", Invited Session on "WiMax State of the Art and Future Perspectives" in European Wireless (EW) Conference 2010, 12-15 Apr. 2010, Lucca, Italy.
- C66. G. Araniti, A. Raschella, A. Umberto, A. Iera, A. Molinaro, 'On the Optimization of Power Assignment to Support Multicast Applications in HAP-based Systems', International Conference on Telecommunications (ICT) 2010 - Wireless Communications Track, 4-7 Apr. 2010, Doha, Qatar.
- C67. G. Araniti, M. De Sanctis, S. C. Spinella, M. Monti, E. Cianca, A. Molinaro, A. Iera, M. Ruggieri, 'Hybrid System HAP-WiFi for Incident Area Network', Special Session on Satellite Based Emergency Services in International ICST Conference on Personal Satellite Services (PSAT) 2010, 4-5 Feb. 2010, Roma, Italy.
- C68. G. Araniti, M. De Sanctis, S. C. Spinella, M. Monti, E. Cianca, A. Molinaro, A. Iera, M. Ruggieri, "Cooperative Terminals for Incident Area Networks", Wireless Vitae, Aalborg, Denmark, 17-20 May 2009
- C69. Alessandro Raschellà, Anna Umberto, Giuseppe Araniti, Antonio Iera, Antonella Molinaro, "SINR-based Transport Channel Selection for MBMS Applications", The IEEE 69th Vehicular Technology Conference: VTC2009-Spring, 26-29 April 2009, Barcelona, Spain
- C70. Silverio Carlo Spinella, Daniele Biondo, Antonio Iera, Antonella Molinaro, "Enhancing WLAN-based Positioning by RFID Technology Integration", The 12th International Symposium on Wireless Personal Multimedia Communications (WPMC 2009), Sendai, Japan, Sept. 2009.
- C71. Silverio Carlo Spinella, Giuseppe Araniti, Antonio Iera, Antonella Molinaro, "Integration of Ad-Hoc Networks with Infrastructured Systems for Multicast Services Provisioning", The International Workshop on Scalable Ad Hoc and Sensor Networks (SANS'09), St. Petersburg, Russia, 12 - 14 October 2009.
- C72. A. Raschellà, G. Araniti, A. Iera, A. Molinaro, "High Altitude Platforms: Radio Resource Management Policy for MBMS Applications", International Conference on Personal Satellite Services - PSATS'09, February 4 -6, 2009, Rome, Italy
- C73. Silverio Carlo Spinella, Antonino Giordano, Antonio Iera and Antonella Molinaro, "Indoor positioning techniques based on WLAN/RFID technology integration", Positioning and Context Awareness International Conference, PoCA'09, Antwerp, Belgium, 28th May, 2009
- C74. Alessandro Raschellà, Anna Umberto, Giuseppe Araniti, Antonio Iera, Antonella Molinaro "On the Impact of the User Terminal Velocity on HSPA Performance in MBMS Multicast Mode", IEEE International Conference on Telecommunications (ICT 2009), Marrakech, Morocco, 25 - 27 May 2009
- C75. S. Pizzi, A. Molinaro, A. Iera, "On the performance of "Compensation-Based" and "Greedy" Scheduling Policies in IEEE 802.16 Networks", 2009 IEEE International Conference on Communications, IEEE International Conference on Communications (ICC 2009), June 14-18, Dresden, Germany
- C76. Leonardo Militano, Frank H.P. Fitzek, Antonio Iera, Antonella Molinaro, "Evolutionary Theory for Cluster Head Election in Cooperative Clusters implementing Network Coding", 15th European Wireless Conference, Aalborg, Denmark 2009
- C77. A. Raschellà, G. Araniti, A. Iera, A. Molinaro, "Radio Resource Management Policy for Multicast Transmissions in HAP Space Segments", IET 27th International Communications Satellite Systems Conference (ICSSC 2009), Edinburgh, Scotland. 1- 4 June 2009.
- C78. S. Pizzi, A. Molinaro, A. Iera, "Channel-aware class-based scheduling for QoS support in IEEE 802.16/WiMAX networks", The IEEE International Conference on Information Networking 2009 (ICOIN 2009), Chiang Mai, January 21-24, 2009
- C79. Giuseppe Araniti, Antonio Iera, and Antonella Molinaro, "A Power Based Algorithm for Efficient Radio Resource Management Policy in Integrated Terrestrial/HAP MBMS Systems", IEEE Globecom 2008 Symposium on Selected Areas in Communications (GC'08 SAC), New Orleans, USA, 2008
- C80. Antonio Iera, et al., "IKNOW: a Small LEO Satellite for W Band Experimentation", Proceedings of the 26th AIAA International Communications Satellite Systems Conference (ICSSC), San Diego, CA, 2008
- C81. Claudia Campolo, Antonio Iera, Leonardo Militano, Antonella Molinaro, "Dynamic Bargaining of Content Shares in Wireless Cooperative Systems", Proceedings of the IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2008, Cannes, France.

- C82. Leonardo Militano, Antonio Iera, Antonella Molinaro, Frank Fitzek, "Wireless peer-to-peer cooperation: when is it worth adopting this paradigm?", Proceedings of the 11th International Symposium on Wireless Personal Multimedia Communications, Lapland, 2008
- C83. Sergio Polito, Daniele Biondo, Antonio Iera, and Antonella Molinaro, "Location through proximity in RFID systems", Proceedings of the 10th International Conference on Enterprise Information Systems (ICEIS 2008), 2nd International Workshop on RFID Technology - Concepts, Applications, Challenges (IWRT 2008), 12 - 16, June 2008, Barcelona, Spain,
- C84. Giuseppe Araniti, Antonio Iera, Antonino Modafferi, Antonella Molinaro, "Quality Based Handoff in DVB-H Systems Assisted by Cellular Network", IEEE VTC2008-Spring
- C85. T. Rossi, S. Pulitanò, M. Lucente, E. Del Re, M. Ruggieri, A. Iera, A. Molinaro, "WAVE A2: WAVESat and LEO Mission Architectures", IEEE International Conference on Communications (ICC) 2008, May 2008, Beijing.
- C86. C. Sammarco, F. H. P. Fitzek, G. P. Perrucci, A. Iera, A. Molinaro, "Localization Information Retrieval Exploiting Cooperation Among Mobile Devices", IEEE CoCoNet Workshop 2008, Cognitive and Cooperative Wireless Networks collocated with IEEE ICC 2008 in Beijing, China 19-23 May 2008.
- C87. L. Militano, F.H.P. Fitzek, A. Iera and A. Molinaro, "On the beneficial effects of Cooperative Wireless Peer to Peer Networking", Proceedings of the 2007 Tyrrhenian International Workshop on Digital Communications (TIWDC'07), Island of Ischia, Italy, September 9-12, 2007
- C88. Giuseppe Araniti, Antonella Molinaro, and Antonio Iera, "Multicast in Terrestrial-HAP Systems: *User Number* vs. *User Distribution* oriented RRM Policies", Proceedings of the IEEE International Vehicular Technology Conference (VTC Fall), Baltimore, USA, Oct. 2007.
- C89. D. Biondo, A. Iera, M. Mattei, A. Molinaro, S. Polito, "Performance Evaluation of Active RFID Location Systems Based on RF Power Measures", Proceedings of the 18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'07), Athens, Greece, 2007.
- C90. M. Labate, G. Araniti, A. Molinaro, A. Iera, B. Orlandi, "Quality Based Handoff in DVB-H systems", Proceedings of the 18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'07), Athens, 2007.
- C91. Giuseppe Araniti, Antonio Iera, and Antonella Molinaro, "The Effect of Multicast *User Number* and *Distribution* on the Performance of RRM Policies in Terrestrial-HAP MBMS Systems", Proceedings of the IEEE GLOBECOM 2007 Conference, Washington, USA, Nov. 2007
- C92. Sara Pizzi, Antonella Molinaro, and Antonio Iera, "On the effects of channel error compensation on the WF2Q+ scheduling performance in IEEE 802.16/WiMAX networks", Proceedings of the ACM Qshine'07, Conference, Vancouver, Canada, August 14-17, 2007.
- C93. G. Ruggeri, S. Polito, A. Molinaro, A. Iera, "A Cross-Layer Framework for Best Internet Access in Vehicular Networks", Proceedings of the 1st International Workshop on ITS for an Ubiquitous Roads (UBIROADS 2007), Marrakech, 2007
- C94. Giuseppe Araniti, Antonio Iera, and Antonella Molinaro, "Active Handoff in DVB-H Systems with UMTS Return Channels", Proceedings of International Symposium on Wireless Personal Multimedia Communications (WPIC), Jaipur, India, 2007
- C95. A. Iera, A. Molinaro, G. Ruggeri, S. Polito, A. Vilasi, "Gateway Discovery and Selection in Mobile Hotspots", International Conference on Wireless Broadband and Ultra Wideband Communications (AusWireless), special session on Mobile Hotspots, (invited paper), Sydney, Australia, March 2006
- C96. A. Iera, A. Molinaro, G. Ruggeri, S. Polito, Coordinated Multihop Scheduling in IEEE802.11e Wireless Ad Hoc Networks, Proceedings of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Helsinki, Sep. 2006
- C97. A. Iera, A. Molinaro, C. Campolo, M. Amadeo, An Access Network Selection Algorithm Dynamically Adapted to user Needs and Preferences, Proceedings of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Helsinki, Sep. 2006
- C98. G. Araniti, A. Iera, A. Molinaro, S. Pulitanò, Unreliable Multicast Transport in Integrated UMTS-HAP Networks, Proceedings of International Symposium on Wireless Personal Multimedia Communications (WPIC), San Diego, USA, Sep. 2006
- C99. E. Cianca, A. Molinaro, M. De Sanctis, A. Iera, G. Araniti, M. Ruggieri, Location/ Situation-Aware Architecture for Mobility Management over Heterogeneous networks, (invited), Proceedings of the International Mobile Multimedia Communications Conference (MobiMedia), Alghero, Italy, Sep. 2006
- C100. M. De Sanctis, E. Cianca, G. Araniti, A. Molinaro, A. Iera, M. Ruggieri, Integration of Navigation and Communication for Location and Context aware RRM, Proceedings of the Tyrrhenian International Workshop on Digital Communications (TIWDC), Satellite Navigation and Communications Systems, Ponza, Italy, Sep. 2006
- C101. A. Iera, Ki-Dong Lee, A. Molinaro, S. Pulitanò, "A Medium Access Control Protocol for Flexible and Stable Capacity Allocation in DVB-RCS Satellite Networks", accettato per la pubblicazione negli atti di Advanced Satellite Mobile Systems Conference (ASMS), Herrsching am Ammersee, Germany, May 2006.
- C102. A. Iera, A. Molinaro, G. Ruggeri, S. Polito, Mobile Hot-Spots in 3G-WLAN Internetworked Scenarios, Proceedings of the IEEE International Conference on Telecommunications (ICT), Cape Town, May 2005
- C103. A. Iera, A. Molinaro, A. Pudano, D. Ursino, A Situation&Location-aware system for handling E-services in heterogeneous telecommunications networks (invited), Proceedings of the IEEE International Conference on Telecommunications (ICT), Cape Town, May 2005
- C104. A. Iera, A. Molinaro, G. Ruggeri, D. Tripodi, Dynamic prioritization of multimedia flows for improving QoS and throughput in IEEE 802.11e WLANs, (invited), Proceedings of the IEEE International Conference on Communications (ICC), Seoul, Korea, May 2005
- C105. A. Iera, A. Molinaro, S. Pulitanò, An Integrated HAP-Satellite Communications System for DVB-RCS Service Provisioning, Proceedings of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Berlin, Germany, Sep. 2005

- C106. A. Iera, A. Molinaro, Quality of Service Concept Evolution for Future Telecommunication Scenarios, (invited), Proceedings of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Berlin, Germany, Sep. 2005
- C107. A. Iera, A. Molinaro, G. Ruggeri, D. Tripodi, Dynamic priority assignment in IEEE 802.11e Ad-Hoc Networks, Proceedings of the IEEE GLOBECOM 2005 Conference, St. Louis, USA, Nov. 2005
- C108. G. Araniti, A. Iera, A. Molinaro, and S. Pulitanò, End-to-end QoS provisioning in an IP-based UMTS Terrestrial Radio Access Network, Proceedings of the IEEE International Conference on Telecommunications (ICT), Fortaleza, Brasil, Aug. 2004.
- C109. M. Costabile, C. Follino, A. Iera, and A. Molinaro, QoS Differentiation in DVB-RCS Multimedia Platforms, Proceedings of IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Barcelona, Spain, Sep. 2004.
- C110. G. Araniti, A. Iera, A. Molinaro, S. Pulitanò, User Profiling Techniques for Adaptive QoS Management in Multibearer Mobile Radio Networks, Proceedings of the 1st International Symposium on Wireless Communication Systems (ISWCS), Mauritius, Sep. 2004.
- C111. G. Araniti, F. Calabrò, A. Iera, A. Molinaro, S. Pulitanò, Differentiated Services QoS Issues in Next Generation Radio Access Networks: a New Management Policy For Expedited Forwarding Per-Hop Behaviour, Proceedings of the IEEE International Vehicular Technology Conference (VTC Fall), Los Angeles, USA, Sep. 2004.
- C112. A. Iera, A. Molinaro, S. Pulitanò, Connection Admission Control issues in DVB-RCS systems, Proceedings of the International Conference on Advanced Satellite Mobile Systems (ASMS), Noordwijk, The Netherlands, Sep. 2004.
- C113. A. Iera, G. Ruggeri e D. Tripodi, "An Algorithm for Dynamic Priority Assignment in 802.11e WLAN MAC Protocols", in Proc. 11th International Conference on Telecommunications, Fortaleza (ICT 2004), Brazil, August 1-6, 2004, Lecture Notes in Computer Science (LNCS), Volume 3124/2004 Telecommunications and Networking ISBN: 3-540-22571-4, pp. 1267 – 1273
- C114. Giuseppe Araniti, Pasquale De Meo, Antonio Iera, and Domenico Ursino Enhancing 3G Cellular Systems with User Profiling Techniques for Multimedia Application QoS Adaptation, in Proc. 11th International Conference on Telecommunications, Fortaleza (ICT 2004), Brazil, August 1-6, 2004, Lecture Notes in Computer Science (LNCS), Volume 3124/2004 Telecommunications and Networking ISBN: 3-540-22571-4
- C115. De Rango F., Iera A., Molinaro A., Marano S., A modified location-aided routing protocol for the reduction of control overhead in ad-hoc wireless networks, 10th International Conference on Telecommunications, ICT 2003, March 2003
- C116. Giuseppe Araniti, Antonio Iera, Antonella Molinaro, Salvatore Pulitano, Extending All-IP Network and QoS Related Issues in 4th Generation Wireless-Wired Environment, WWC/3Gwireless '2003, S. Francisco, 2003
- C117. Giuseppe Araniti, Antonio Iera, Antonella Molinaro, Domenico Vizzari, A Radio Resource Management Strategy for UMTS WCDMA Downlink Shared Channel, WWC/3Gwireless '2003, S. Francisco 2003
- C118. A. Iera, G. Araniti, R. Agarwal, A. Molinaro, "Multimedia Traffic QoS Adaptation in UMTS Systems Through a Middleware Functionality", IEEE International Conference on Communications (ICC 2003), Anchorage, Alaska, May 11-15, 2003.
- C119. A. Iera, A. Molinaro, P. Pace, S. Marano, "Multimedia Traffic in Broadband Satellite Networks", IEEE International Conference on Communications (ICC 2003), Anchorage, Alaska, May 11-15, 2003.
- C120. A. Iera, A. Molinaro, F. De Rango, S. Marano, Multistep Increase of Forwarding Zone for LAR Protocol on Ad Hoc Networks, VTC 2003-Spring Conference, Korea, Apr. 2003
- C121. A. Iera, A. Molinaro, P. Pace, S. Marano, "Dedicated vs. random access to signalling channels in satellite communications systems", *Proceedings of the IEEE International Vehicular Technology Conference (VTC)*, Orlando, USA, Oct. 2003.
- C122. Pasquale De Meo, Antonio Iera, Domenico Ursino, "Gestione soggettiva della QoS nelle reti di telecomunicazioni mediante un modello multi-agente basato su XML", SEBD 2003 Conference, Cetraro, Italy, June 2003
- C123. A. Iera, A. Molinaro, P. Pace, S. Marano, "Random access techniques for GEO satellite personal communication networks", IEEE PIMRC 2003, Beijing, China, nov. 2003
- C124. A. Molinaro, De Rango, A. Iera, S. Marano, "Multi-step Resizing of the Request Zone in Ad Hoc Networks", IEEE PIMRC 2003, Beijing, China, nov. 2003
- C125. M. Costabile, R. Ferraro, C. Follino, and A. Iera, A MAC Protocol for the Efficient Access to the "Return Channels" of DVB-RCS Satellite Platforms, WPMC'03 Conference, Yokosuka Park, Japan, Oct. 2003
- C126. P. Pace, A. Molinaro, A. Iera, S. Marano, "On the Performance of Connection Admission Control and Traffic Management Schemes in a DVB-RCS Suited Satellite System, Proceedings of the ASMS Conference, Frascati, Italy, July 2003
- C127. G. Araniti, G. Ascoti, A. Iera, A. Molinaro, "A Middleware For Multimedia Adaptive-QoS Guarantee In "Any" Network Environment", IEEE 3G-wireless 2002 Conference, S. Francisco, USA, May 2002
- C128. A. Iera, A. Molinaro, G. Aloï, P. Pace, and S. Marano, "On the Performance of CAC Algorithms in Multimedia Geostationary Satellite Networks", IEEE WCNC 2002 Conference, Orlando, USA, March 2002
- C129. A. Iera, A. Modafferi, A. Molinaro, R. Agostino, G. Araniti, "Inter-stream Synchronization for Multimedia Applications in Wireless-ATM Networks", IEEE ICC 2002, New York, April 2002
- C130. A. Iera, A. Modafferi, G. Musolino, A. Vitetta, An experimental station for real-time traffic monitoring on a urban road The IEEE 5th International Conference on Intelligent Transportation Systems, Singapore, September 3-6, 2002
- C131. A. Iera, A. Molinaro, S. Marano, Designing Multimedia Call Management Algorithms in UMTS Multi-tier Environment with Soft-Handoff Procedure, IEEE PIMRC2002, Lisboa, Sept. 2002
- C132. A. Iera, A. Molinaro "Dynamic Resource Redistribution to Enhance the QoS of Traffic from Wireless Multimedia Terminals", 3GIS Symposium 2001, Athens, Greece, July 2001 (Invited Paper)
- C133. A. Iera, G. Sollazzo, S. Malaspina, A. Molinaro, "Exploiting DiffServ and IntServ Models in Terrestrial IP Networks with Satellite Access", IEEE 3G-Wireless Conference, San Francisco, Sept. 2001
- C134. A. Iera, A. Modafferi, G. Aiello, A. Molinaro, S. Marano, "Enhanced Channel Access Techniques for Wireless Multimedia Terminals", IEEE VTC2001 Spring, Rhodes, Greece, May 2001
- C135. A. Iera, R. Ferraro, G. Tomasicchio, "QoS Metrics for Performance Assessment in Integrated Terrestrial-Satellite Multimedia Platforms", IEEE VTC2001 Spring, Rhodes, Greece, May 2001

- C136. A. Iera, A. Molinaro, S. Marano, A. Lettieri, "Multimedia Traffic Management in Hierarchical Networks with W-CDMA Access", WPMC, Aalborg, Denmark, September 2001
- C137. A. Iera, A. Molinaro, S. Marano, "Conveying IP Guaranteed and Controlled Load Services over Satellite Links", IEEE PIMRC'01, San Diego, Oct. 2001
- C138. A. Iera, A. Molinaro, S. Marano, G. Aloï, "On Bandwidth Assignment in Broadband Multimedia Satellite Networks", IEEE International Conference on Telecommunications, ICT 2000, Mexico, May 2000.
- C139. A. Iera, A. Molinaro, F. Petullà, A. Modafferi, S. Marano, "Analysis of MAC Protocols for Wireless-ATM Networks", IEEE PIMRC'00, London
- C140. A. Iera, A. Molinaro, S. Marano, "Adaptable Traffic management in Satellite Networks". IEEE PIMRC'00, London.
- C141. A. Iera, A. Molinaro, G. Aloï, S. Marano, "Signalling Issues and Call Admission Control in Multimedia Satellite Networks", IEEE WCNC'00, Chicago.
- C142. A. Iera, A. Molinaro, G. Aloï, S. Marano, "Traffic shaping and signalling issues in high-latency broadband satellite access networks", International Conference on Broadband Wireless Access (WAS2000), San Francisco, Dec. 2000
- C143. A. Iera, A. Molinaro, G. Aloï, S. Marano, "Multimedia Applications over Satellite Personal Communications Networks", accettato a International Symposium on Wireless Personal Multimedia Communications (WPMC2000), Nov. 2000, Bangkok
- C144. Antonio Iera, Antonella Molinaro, Salvatore Marano, and Miriam Petrone, "Real-time VBR Traffic Management in Satellite based ATM Networks", IEEE ATM Workshop 1999, Kochi City, Japan, May 1999
- C145. Antonio Iera, Antonino Modafferi, Antonella Molinaro, "Enhanced techniques for the handling of multimedia connections in multi-tier cellular systems", IEEE International Conference on Telecommunications, ICT'99, Cheju Island, Korea, June 1999
- C146. Antonio Iera, Antonella Molinaro, Salvatore Marano, "Re-negotiable Quality of Service Provisioning in Multimedia Networks", IEEE International Conference on Telecommunications, ICT'99, Cheju Island, Korea, June 1999
- C147. Antonio Iera, Antonella Molinaro, Salvatore Marano, "Symmetric and Asymmetric Traffic in Multitier Cellular Systems", IEEE PIRMC'99, Osaka, Japan, Sept. 1999
- C148. Antonio Iera, Antonella Molinaro, Salvatore Marano, "Adaptive QoS for multimedia applications in Personal Communication Networks", IEEE PIRMC'99, Osaka, Japan, Sept. 1999
- C149. Antonio Iera, Antonella Molinaro, Salvatore Marano, "Heterogeneous Traffic Management in Satellite Multi-Layered Networks", IEEE Vehicular Technology Conference, VTC'99- Spring, Huston, Texas, May 1999
- C150. Antonio Iera, Antonella Molinaro, Salvatore Marano, "Traffic and Resource Management in Multi-Tier Networks Exploiting Satellite Coverage", IEEE World Conference on Networks and Communications, WCNC'99, New Orleans, USA, Sept. 1999
- C151. Antonio Iera, Antonino Modafferi, Antonella Molinaro, "Access control and handoff management in multi-tier multimedia wireless systems", IEEE World Conference on Networks and Communications, WCNC'99, New Orleans, USA, Sept. 1999
- C152. Antonio Iera, Antonella Molinaro, Salvatore Marano, D. Mignolo, "Statistical multiplexing of heterogeneous traffic classes in ATM-Satellite based Networks", IEEE World Conference on Networks and Communications, WCNC'99, New Orleans, USA, Sept. 1999.
- C153. Antonio Iera, Antonella Molinaro, Salvatore Marano, F. Petulla', "A MAC protocol for wireless access to ATM networks", IEEE Vehicular Technology Conference, VTC'99- Fall, Amsterdam, Sept. 1999
- C154. Antonio Iera, Antonella Molinaro, Salvatore Marano, G. Aloï, "A MAC Protocol for Multimedia Satellite Systems", IEEE Vehicular Technology Conference, VTC'99- Fall, Amsterdam, Sept. 1999
- C155. Antonio Iera, Antonino Modafferi, Antonella Molinaro, "Supporting Multimedia with Soft-QoS Guarantee in Wireless Communication Systems", IEEE GLOBECOM'99, Rio de Janeiro, Brazil, Dec. 1999
- C156. Antonio Iera, Antonella Molinaro, Salvatore Marano, "Multimedia QoS Provisioning in Wireless-ATM Networks", IEEE GLOBECOM'99, Rio de Janeiro, Brazil, Dec. 1999
- C157. A. Iera, S. Marano, A. Molinaro, "Supporting Mobility in Broadband Wireless Networks", IEEE Vehicular Technology Conference VTC'98, Ottawa, Canada, May 98.
- C158. A. Iera, S. Marano, A. Molinaro, Hand-off Management Algorithms for Urban and Sub-urban Environments Under Realistic Vehicle Mobility Conditions, Proc. of the IEEE International Conference on Communications, ICC'98, June '98, Atlanta, USA.
- C159. A. Iera, S. Marano, A. Molinaro, Exploiting User Speed Estimation to Improve the Teletraffic Performance in Environments with Multi-tier Coverage and Highly Variable Mobility Profile, Proc. of the IEEE International Conference on Telecommunications, ICT'98, June '98, Rhodi, Greece.
- C160. A. Iera, S. Marano, A. Molinaro, Enhanced Channel Access Protocol for DECT Systems with Multimedia Traffic, Proc. of the IEEE International Conference on Universal Personal Communications ICUPC '98, Oct.'98, Firenze, Italy.
- C161. A. Iera, S. Marano, A. Molinaro, Prioritised Multi-Bearer Transport in DECT Systems, Proc. of the 9th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC'98, Sep.'98, Boston, USA.
- C162. A. Iera, S. Marano, A. Molinaro, G. Serra "An Analytical Model for performance Assessment of a Channel Congestion Control Scheme in Cellular Systems with Overlapping Coverage", IEEE International Conference on Telecommunications ICT'97, Melbourne, April 97.
- C163. A. Iera, S. Marano, A. Molinaro, G. Serra "Effective Radio Resources Assignment in Microcellular Systems with Cell Overlapping : the Reserve Channels Scheme", IEEE VTC'97, Phoenix, May 97.
- C164. A. Iera, S. Marano, A. Molinaro, G. Serra "An Analytical Model for performance Assessment of a Channel Congestion Control Scheme in Cellular Systems with Overlapping Coverage", IEEE International Conference on Communications ICC'97, Montréal, June 97.
- C165. A. Iera, S. Marano, A. Molinaro, "Call-Level and Burst-Level Priorities for an Effective Management of Multimedia Services in UMTS", IEEE Conference on Computer and Communication INFOCOM'96, San Francisco, CA, USA, March 1996
- C166. A. Iera, S. Marano, A. Molinaro, "Synchronisation of Multimedia Service Traffic Components in UMTS Networks", IEEE Vehicular Technology Conference VTC'96, Atlanta, USA, June 1996

- C167. A. Iera, S. Marano, A. Molinaro, "On the Evolution of Mobile Network Protocols Toward the Support of Multimedia Teleservices", IEEE ICC'96 Conference, Dallas, June 1996
- C168. A. Iera, S. Marano, A. Molinaro, "A protocol architecture for wireless ATM network supporting multimedia teleservices", IEEE International Conference on Universal Personal Communication, ICUPC'96, Boston, USA, November 96.
- C169. A. Iera, S. Marano, A. Molinaro, "On the management of end-to-end multimedia and multibearer connections in a Personal Communications Network", Seventh IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC'96, Taiwan, October 96.
- C170. A. Iera, S. Marano, A. Molinaro, "Enhanced Handover and Resource Assignment Schemes for Personal Mobile Communications Networks", IEEE International Conference on Communication Systems, Singapore, November 96.
- C171. A. Iera, A. Molinaro, S. Pinnelli, "An Innovative Methodology for the Development of a Multimedia Courseware Based on Ergonomic Human-Machine Interaction Criteria", East-West International Conference on Human-Computer Interaction, EWHCI '95, Moscow, July 1995.
- C172. F. de Ryck, A. Iera, A. Molinaro, G. Mossakowski, "ATDMA Service Demonstration with the RealTime TestBed", RACE Mobile Telecommunications Summit, Cascais, Nov. 1995
- C173. A. Iera, S. Marano, A. Molinaro, "Multimedia Services Management in Next Generation Mobile Networks", IEEE International Conference on Universal Personal Communication, ICUPC'95, Tokyo, Japan, November 95
- C174. R. Beraldi, A. Iera, S. Marano, P. Salerno, "Analysis of Queueing Strategies for Handoff and Originating Calls in Macro/Micro/Pico Cellular Systems", IEEE International Conference on Universal Personal Communication, ICUPC'95, Tokyo, Japan, November 95
- C175. R. Beraldi, F. Calonico, A. Iera, S. Marano, "Improving Call Admission Performance and Enhancing Resource Utilisation in ATM Networks by Merging a New Buffer Management Scheme with the Fast Buffer Reservation Mechanism", Third International Conference on Computer, Communication and Network, San Francisco, California USA, Sept. 1994
- C176. R. Beraldi, A. Iera, S. Marano, R. Sestito "A Per-Burst And Per-Cell Combined Policing Mechanism For ATM Networks In The Case Of ON/OFF And Loss Sensitive Sources: The DTAT.", Third International Conference on Computer, Communication and Network, San Francisco, California USA, Sept. 1994.
- C177. R. Beraldi, A. Iera, V. Ruggi, S. Marano, "Buffer Statistical Multiplexing For Bursty Data Calls In ATM Networks", IEEE Singapore International Conference on Communication Systems '94, Singapore, November 1994
- C178. R. Beraldi, A. Iera, S. Marano, R. Sestito, "A Study On The Management Of ON/OFF Loss Sensitive Sources Traffic In ATM Networks ", IEEE Singapore International Conference on Communication Systems '94, Singapore, November 1994.
- C179. R. Beraldi, F. Calonico, A. Iera, S. Marano "Call Admission Control And Resource Utilisation In ATM Networks: A New Improvement Strategy", IEEE GLOBECOM '94, San Francisco, California, December 1994.
- C180. R. Beraldi, A. Iera, S. Marano, P. Salerno "A New Dynamic Reservation Multiple Access Protocol For Supporting Multimedia Traffic In Third Generation Cellular System", IEEE Singapore International Conference on Communication Systems '94, Singapore, Nov. 1994.
- C181. R. Beraldi, A. Iera, S. Marano, " Push-Out based Strategies for Controlling the Share of Buffer Space", IEEE Singapore International Conference on Networks & International Conference on Information Engineering '93, Singapore, Sept. 1993.
- C182. R. Beraldi, A. Iera, S. Marano, "Controlled Share of Buffer Space by Using a Replacement Strategy: an Analytical Study", 2nd International Conference on Computer, Communication and Network, San Diego, California USA, June 1993.
- C183. E. Di Nitto, A. Iera, S. Marano, "Avalanche Tagging: A Proposal for Policing Function in ATM Environment", 11th International Conference on Computer Communication, Genova, Italy, Sept. 1992.
- C184. C. Bompard, A. Iera, V. Trecordi, "Analysis of the optimality of a multi-level bandwidth-negotiation algorithm for FDDI interconnection across B-ISDN", 17th Annual Conference on Local Computer Networks, Minneapolis, USA, Oct. 1992.