Curriculum Vitae of
Carla Fabiana Chiasserini

First name and Last name:	Carla-Fabiana Chiasserini
Address:	
Birth date:	
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Phone:	

WORK EXPERIENCE AND POSITIONS

- December 2013 – Italian habilitation for a Full Professor position in the 09/F2 area (Telecommunications).
- November 2006 – present: Associate Professor, Department of Electronics and Telecommunications, Politecnico di Torino. SSD: ING-INF/03.
- 2012 – present: Research Associate, National Research Council (CNR), IEIIT, Torino, Italy.
- Since May 2011: Reference person for the scientific collaboration between Istituto Superiore Mario Boella (ISMB) and the Telecommunications Networking Group at Politecnico di Torino.
- February 2002 – November 2006: Assistant Professor, Department of Electronics, Politecnico di Torino. SSD: ING-INF/03.
- December 2000 – January 2002: Assistant Professor (short-term position), Department of Electronics, Politecnico di Torino. SSD: ING-INF/03.
- February – October 2000: Research Scientist, under a contract (Collaborazione Coordinata e Continuativa) and working with the Telecommunication Networks Group at Politecnico di Torino, coordinated by Prof. Marco Ajmone Marsan.
- May – October 1996: Research Engineer, Department of Electronics, Politecnico di Torino, Italy, supported by CSELT (Italian Public Telephone Research Company).

RESEARCH PERIODS AT INTERNATIONAL INSTITUTIONS

- July – September 2012: Visiting Professor, Department of Electrical and Computer Systems Engineering, Monash University, Melbourne, Australia.
- July – September 2003: Visiting Researcher, Department of Electrical and Computer Engineering, University of California, San Diego, CA (USA).
- July – September 2002: Visiting Researcher, Department of Electrical and Computer Engineering, University of California, San Diego, CA (USA).
- July – October 2001: Visiting Assistant Professor, Department of Electrical and Computer Engineering, University of California, San Diego, CA (USA).
- July – September 2000: Postdoctoral Fellow, Department of Electrical and Computer Engineering, University of California, San Diego, CA (USA).
- August 1998 – December 1999: Visiting Scholar, Center for Wireless Communications (CWC), led by Prof. Antony Acampora and Prof. Ramesh R. Rao, University of California, San Diego, CA, USA.

- June – December 1995: Visiting Scholar, Department of Electrical and Computer Engineering, University of Massachusetts at Amherst (UMASS), MA, USA.

EDUCATION AND TRAINING
- January 1997 – December 1999: Ph.D. Student, Department of Electronics, Politecnico di Torino. Advisor: Prof. Marco Ajmone Marsan. Research focused on wireless ATM networks, Petri Net models and queuing theory. Title of PhD Thesis: "Mobile Communication Networks"; PhD achieved on: Feb. 11, 2000.
- February 1996: Master in Electronics Engineering, University of Florence, Italy (110/110 cum laude). Title: Authentication and Confidentiality in WLANs. Advisors: Prof. Enrico Del Re, Prof. Romano Fantacci, Prof. Aura Ganz.

PROFESSIONAL ACTIVITIES AND COMMISSIONS OF THRUST
- Feb. 2014 – present: **Member of the Scientific Committee of the Bruno Kessler Foundation (FBK)**, Trento, Italy. FBK is one of the most prestigious research centers in Europe. It includes over 350 researchers, 220 among Thesis students, PhD students, post-doctoral fellows, and visiting professors, 7 research centers and 30 among spin-offs, start-ups and subsidiaries (FBK web site: www.fbk.eu).
- Feb. 2014 – present: Member of the Networld2020 Expert Group (the EU Technology Platform for networks and services).
- November 2014 – March 2016: Co-leader of the Department Committee for restructuring the MSc Program in Computer and Communication Networks and for the creation of a new MSc program in ICT for Smart Societies.
- October 2013 – present: **Member of the Committee on the Ph.D. Program in Electronics Engineering at Politecnico di Torino** (Collegio docenti del Dottorato in Ingegneria Elettronica).
- October 2015 – present: **Coordinator of the Master Program in Communications and Computer Networks**, Politecnico di Torino.
- October 2012 – Oct 2015: **Coordinator of the Master Program in Computer and Communication Networks**, Politecnico di Torino.
- Oct. 2012 – present: **Member of the Education Board of the Department of Electronics and Telecommunications and Responsible for the courses in Networking and Communications**, Politecnico di Torino**.**
- June 2008 – June 2012: Responsible for the orientation of incoming students. The main task has been the presentation to high-school students of the courses offered by Politecnico di Torino.
- September 2007 – September 2012: Member of the Committee on Promotion and External Relationships of the 3rd School of Engineering at Politecnico di Torino.

RESEARCH ACTIVITIES
My research activity focuses on the design, optimization and performance evaluation of wireless networks and mobile applications. I have addressed cellular and mobile communication networks, sensor networks, signal processing, vehicular networks and device-to-device communication. I have also studied relay networks and MIMO communication networks. These activities have given me a broad view of the interactions among the elements of complex communication systems.

In my research projects and scientific papers, I have delivered theoretical models of the above systems and analysis based on game theory, optimization methodologies, stochastic models, information theory and random matrix theory. I have also presented system performance evaluations based on simulation (ns2, ns3, and OMNET++) and software implementation on Linux and Android devices. This variety of experience has been a key asset for leading a research group and carrying out my research.

The work I have done includes:

(1)   Highly cited, pioneering papers on node cooperation and game theory-based analysis of ad hoc networks. One of my papers on this topic has received about 670 citations.

(2)   Stochastic models of wireless device batteries and energy-efficient solutions. Since these studies have appeared, research on node cooperation and energy saving techniques has bloomed. My top four papers on the topic have received a total of 800 citations.

(3)   Study of Bluetooth and WiFi. One of my ideas has been discussed in the related IEEE Working Group.

(4)   Stochastic modeling of sensor networks, and signal estimation from irregular sensor sampling (using random matrix theory). My two top papers have received a total of 250 citations.

   More recently, I have being studying:

(5)   Optimization of service support in mobile networks (including cooperative caching and content downloading) and secure positioning in vehicular networks;

(6)   Resource allocation and service support in heterogeneous networks (HetNets and LTE-A), and analysis and development of device-to-device communication;

(7)   De-anonymization of social networks, using graph-based models and bootstrap percolation theory.

INTERNATIONAL DIFFUSION AND PUBLICATION STATISTICS

The complete list of my publications can be found at the end of this document as well as at:
http://www.telematica.polito.it/public/faculty/carla-fabiana-chiasserini/porto-publications

The list includes 257 articles, 82 of which published in highly prestigious international journals that are the most influential in my field, and 160 in leading international conferences.

Among my journal papers: 39 have appeared in IEEE Transactions, 2 in ACM Transactions and 13 in IEEE Journals.

Many of the conferences where I presented my work are highly selective (with acceptance rate ranging from 10% to 20%) and provide considerable visibility within the scientific community. Among my conference papers, 110 have been published in the proceedings of IEEE and ACM conferences. In particular, some of my papers have been presented at IEEE/ACM MobiCom, ACM MobiHoc, and IEEE INFOCOM.

I also co-authored 9 book chapters.

My work is highly cited. As of September 2014, my publication indices are as follows:

*   **h-index = 40** (source Google Scholar)
*   Contemporary h-index = 26 (source Google Scholar)
*   **Total number of journal papers = 82**
*   **Total number of journal papers normalized to the years of academic activity = 5.2**
*   Total number of citations = 5928 (source Google Scholar)
*   Total number of citations normalized to the years of academic activity = 382,45 (source Google Scholar)
*   Number of years of academic activity (since PhD) = 15.5.

PATENTS

I have co-authored the following patents:

- Conte, C. Casetti, C.-F. Chiasserini, "Method for Providing Traffic Differentiation in a Wireless LAN Environment and Corresponding Wireless LAN Station," United States Patent 20050185580, 2005; European Patent 1566922, 2004;
- A. Conte, P. Dauchy, C. Casetti, C.-F. Chiasserini, "A Method for Admission Control for Mobile Networks, an Admission Controller and a Communication System Therewith," European Patent 1694088 / United States Patent 20060189322, 2005.

Furthermore,

- A joint patent with Telecom Italia S.p.A. on a scheme for resource allocation in LTE-A networks is currently under preparation;
- A joint patent with Qatar University on Secure Wireless Systems has been recently submitted.

NATIONAL AND INTERNATIONAL SCIENTIFIC COLLABORATIONS

During my career, I have established several international collaborations, as listed below:

- Prof. Ramesh R. Rao, University of California at San Diego (UCSD). The collaboration has started in 1998 and has continued for seven years, leading to numerous publications on energy efficiency in wireless networks.
- Dr. Vikram Srinivasan, Bell Labs India. The collaboration, mainly on node's cooperation, has started at USCD in 2001 and has continued for several years, originating highly cited publications.
- Prof. John S. Proakis, Space (Naval Warfare Systems Center, San Diego). The collaboration has started at UCSD in 2001 and has focused on power control and traffic scheduling in wireless ad hoc networks.
- Dr. Alberto Conte and Dr. Paul Dauchy, Alcatel, France. The collaboration has started within a research contract in 2003 and has originated two patents and some highly cited papers on the IEEE 802.11e standard.
- Prof. Emanuele Viterbo, Monash University, Australia. A fruitful collaboration has tackled various aspects of wireless communication, signal processing and wireless networks. It has originated numerous prestigious publications.
- Dr. Marco Fiore, INSA-Lyon, France (now at IEIIT-CNR). The collaboration has been lasting for several years and is still active. It has focused on the study of protocols, services and security mechanisms for vehicular networks, leading to several successful publications.
- Dr. Jerome Haerri and Dr. Pietro Michiardi, Eurecom, France. The collaboration, mainly on content sharing in mobile networks, has led to joint publications as well as to the preparation of project proposals.
- Prof. Tamer ElBatt, Nile University, Egypt. The collaboration started when Prof. ElBatt visited my research group in 2012 and has continued through the GAD project.
- Prof. Mohsen Guizani and Dr. Amr Mohamed, Qatar University, Qatar. The collaboration started with the GAD project and has originated several works on cellular networks. It is continuing through joint supervision of PhD students form Qatar Univesrity.
- Prof. Falko Dressler, University of Paderborn, Germany. The collaboration has been focused on vehicular networks. In particular, we have been studying how to optimize the use of network resources so as to provide the required quality of service to vehicular users that wish to access the Internet. The collaboration, although recent, has originated a highly cited conference and one journal paper.
- Prof. Pietro Manzoni, Universitat Politècnica de Valéncia, Spain. The collaboration, started two years ago, focuses on protocols and services for vehicular networks. It has already originated one conference and one journal paper.
- Dr. Swades De, IIT Delhi, India. The collaboration has started very recently when Prof. De visited my research group in July 2014. It focuses on energy transfer via RF signals.

• Dr. Marco Gruteser, Rutgers University, NJ, U.S. This is another very recent collaboration that focuses on application development for sensor networks and on their experimental study.

I have also been collaborating with several Italian researchers working at other institutions, e.g., Prof. Michele Zorzi (University of Padua), Prof. Matteo Sereno, Prof. Rossano Gaeta and Dr. Daniele Manini (University of Turin), Dr. Marco Gribaudo (Politecnico di Milano), Dr. Francesca Cuomo (University of Rome "La Sapienza"), Dr. Antonella Molinaro, (Università Mediterranea di Reggio Calabria), Dr. Renato Lo Cigno (University of Trento), Dr. Antonia Tulino (University of Naples "Federico II"), Dr. Alessandro Nordio and Dr. Alberto Tarable (National Research Council (CNR), IEIIT), Dr. Riccardo Scopigno (Istituto Superiore Mario Boella - ISMB), and Dario Sabella and Marco Caretti (Telecom Italia S.p.A.).

COORDINATION OF A RESEARCH GROUP AND SUPERVISION OF PHD STUDENTS

I created a research group on wireless networks at Politecnico di Torino that includes 5-10 among researchers, postdoctoral fellows and PhD students. Also, I have been very successful in attracting students and researchers from abroad. I have advised:

• more than **70 graduate students** (MSc thesis);
• **23 PhD students**: Alaa Awad (defense date: Nov. 2018), Ahsan Mahmood (defense date: Nov. 2017), Ahmed Badawi (defense date: Dec. 2016), Zana Limani (defense date: Mar. 2016), Carlo Borgiattino (now at Magneti Marelli), Siyuan Zhou, Valeria Baiamonte (now Manager at Ofcom, UK), Saed Tarapiah and Ahmed Masri (now Assistant Professors at An-Najah National University), Diego Borsetti (now Researcher at the Space Internetworking Center, Greece), Massimo Reineri (now at Magneti Marelli Sport, Italy), Vahid Forutan (now Postdoc at Universität Ulm, Germany), Francesco Malandrino (jointly with Dr. C. Casetti; now Postdoc at Trinity College Dublin, Ireland), Marco Fiore (jointly with Dr. C. Casetti; now Researcher at CNR, Italy), Kang Wang (jointly with Prof. Rao; now Senior Staff Engineer at Qualcomm, China), Pavan Nuggehalli (jointly with Prof. Rao; now Manager, Software Engineering at Broadcom, USA); Vikram Srinivasan (jointly with Prof. Rao; former researcher at Bell-Labs and now co-founder of Zettata, India) and 7 PhD students from other institutions visiting my research group. Specifically, in 2014 Adel Fathy (from Aswan University, Egypt, for 1 year) and Carolina del Valle (from Tecnológico de Monterrey, for 6 months), in 2013 Diala Naboulsi (from INSA-Lyon, France, for 6 months), in 2012 Manuel Fogué Cortés (from University of Zaragoza, Spain; now Postdoc there), in 2010 Chi-Anh La (from Eurecom, France, for 6 months; now Postdoc at Laboratoire d'Informatique Grenoble, France), in 2008 Claudia Campolo (from Università Mediterranea, Italy, for 6 months; now Assistant Professor there) and Ali Mahani (from IUST, IRAN, for 1 year; now Assistant Professor at Kerman University, Iran);
• **8 postdoctoral fellows**: Giuseppa Alfano, Fikru Getachew Debele, Marco Fiore, Francesco Malandrino, Alessandro Nordio, Yi Zhang, Gil Einziger, Chetna Singhal.

Finally, I would like to mention that I am advising one PhD student supported by Telecom Italia S.p.A., and one PhD student supported by Eurecom (France). My PhD student, Mrs. Zana Limani was awarded with the prize for best PhD students at Politecnico di Torino in Nov. 2015.

RESEARCH PROJECTS

- **Coordinator** for DET, Politecnico di Torino, for the EU H2020 research project "I-REACT: Improving Resilience to Emergencies through Advanced Cyber Technologies," H2020-DRS-1-2015 (Feb. 2016-Jan. 2019). Budget for Politecnico di Torino: 150.000,00 Euros.
- **Project Coordinator (Lead Principal Investigator)** of the NPRP 5 - 782 - 2 – 322 Project "GAD – Green and Dense Wireless Access Networks," funded by the Qatar National Research Fund (Nov. 2012-Nov.2015). Project budget: 700,000 Euros. The project develops and implements optimization techniques for efficient resource allocation in dense, CloudRAN-based, cellular networks.
- **Politecnico di Torino's Coordinator** for the EU H2020 research project "Xhaul: The 5G Integrated Fronthaul/Backhaul Transport Network," H2020-ICT-2014-2, Call: ICT-14-2014 (July 2015 – Dec. 2017). Project budget: 8.352.271,56 Euros. Xhaul is a 5G-PPP project that aims at developing a 5G integrated backhaul and fronthaul transport network enabling a flexible and software-defined reconfiguration of all networking elements in a heterogeneous, multi-tenant and service-oriented environment. It is coordinated by IMDEA and includes 21 partners.
- **Politecnico di Torino's Coordinator** for the research project "LIMPID: Live Inducement of Multimodality by Promoting the Internet of Data," funded by Regione Piemonte, Italy (Jan. 2015-Oct. 2015). Budget for Politecnico di Torino: 176.652,00 Euros.
- Scientific Coordinator at the Department of Electronics and Telecommunications, Politecnico di Torino, in the ITALY 2020 project (Jan. 2014 – Dec. 2016). Budget for Politecnico di Torino: 122,000 Euros.
  The project focuses on vehicular networks and in-car communications; the list of partners includes Piaggio and FIAT-CRF.
- **Politecnico di Torino's Coordinator** for the FAR project "WiSense: Dense and Reliable sensor networks for Energy Efficient Buildings," funded by MIUR, Italy (June 2013-Dec. 2014).
- **Politecnico di Torino's Coordinator** for the research project "Io_|_ToI: Internet of Things: road Traffic over Internet," funded by Regione Piemonte, Italy (Apr. 2012-June 2014). Budget for Politecnico di Torino: 151,853 Euros.
  The activity within this project has led to the creation of the living vehicular testbed at Politecnico di Torino.
- **Politecnico di Torino's Coordinator and WP Leader** for the research project "TA_SL: Use of Sensor Nodes Network for Safety in Working Environments," funded by Regione Piemonte, Italy (July 2011-July 2013). Budget for Politecnico di Torino: 71,252 Euros.
- **Politecnico di Torino's Coordinator and WP Leader** for the research project "MASP: Control of Protected Areas through Cognitive Monitoring Techniques," funded by Regione Piemonte, Italy (Sep. 2010—Feb. 2012). Budget for Politecnico di Torino: 88,240 Euros.
- **Politecnico di Torino's Principal Investigator** for the research activity on "Opportunistic Networks" within the European Network of Excellence NEWCOM++ (Jan. 2008-June. 2011).
- **Principal Investigator of the research activity on wireless networks**, within the project "DIADI" funded by Regione Piemonte (2004 - 2006).
- **Politecnico di Torino's Principal Investigator** of the research activity on wireless mesh networks, within the FAR project "Mesh Adaptive Home Wireless Nets (MEADOW)" (2006-2008).
- Scientific Responsible for the Joint Activity Project on Vehicular Communications (JPA3), and at Politecnico di Torino for the research activity on "Ad hoc and sensor networks" within the NEWCOM Project A (Mar. 2004-Sep. 2006).

- **Politecnico di Torino's Coordinator** for the FIRB Project: "Virtual Immersive COMmunications (VICOM)'', funded by the Italian Ministry for Research (MIUR) (2002-2005).
- **Politecnico di Torino's Scientific Coordinator** for the PRIN 2003 project "Protocols And cross-layer Techniques To achieve Energy-efficiency in Reconfigurable ad-hoc and sensor Networks (PATTERN)'', funded by the Italian Ministry for Research (MIUR).
- **Principal Investigator for the research line** entitled "Energy Efficiency'' within the Centro di Eccellenza per le Radio COmunicazioni Multimediali (CERCOM), Politecnico di Torino (2001-2004).
- **Politecnico di Torino's Coordinator** for the project "Reconfigurable Access module for MObile computiNg applications (RAMON),'' funded by MURST (Cofinanziamento 2000) (2001-2002).

In addition to the role played in the above projects, I participated to national and international research projects, as detailed next.
- "NEWCOM#", EU FP7 NoE (2012-2015)
- "FIGARO", EU FP7 STREP (2010-2013)
- "myMed", EU FP7 - INTERREG-ALCOTRA Program (2010-2013)
- "CARITAS", funded by the Italian Ministry for Research (MIUR) (2009-2012)
- "Vehicle-to-Vehicle-to-Infrastructure Communications for Sustainable Urban Mobility (VICSUM)," funded by Regione Piemonte, Italy (2007-2009)
- FIRB project "PRIMO" funded by the Italian Ministry for Research (MIUR), (2002-2005)
- CNR AGENZIA 2000, "Design and Configuration of Telecommunication Networks: Models for Stochastic Programming", funded by the Italian Ministry for Research (MIUR) (2002)
- "Project 5%" (D.M. 21/01/97) "Multimedia", funded by the Italian Ministry for Research (MIUR) (1999-2001).

RESEARCH CONTRACTS
- **Principal Investigator** for the research contract on "Interactive Driving" between Magneti Marelli and Politecnico di Torino, in 2013 and 2014;
- **Principal Investigator** for the research contract on "Smart Connectivity" between Telecom Italia S.p.A. and Politecnico di Torino, in 2012 and 2013;
- **Principal Investigator** for the research contract on wireless networks between INLAB-CSP and Politecnico di Torino, in 2003, 2004 and 2005. Since then, I have been collaborating with INLAB, which is active in software development and implementation, as well as prototype development, for advanced technology products;
- **Principal Investigator** for the research contract between Alcatel-Politecnico di Torino on "Quality of Service in 802.11 and 802.11e WLANs," (2003-2004);
- **Co-Principal Investigator** for the contract between SISTRA s.r.l. and Politecnico di Torino (2008);
- **Co-Principal Investigator** for the research contract between Omnitel and Politecnico di Torino for the development of a UMTS simulator (2001).

PARTICIPATION IN PROJECT EVALUATION BOARDS
- Referee in the evaluation of several international grant applications (calls promoted by government and private institutions in Ireland, Luxemburg, Georgia, Greece, Cyprus, France, Austria).
- External reviewer in the final evaluation of COST Action 290 "Traffic and QoS Management In Wireless Multimedia Networks (WI-QOST)", Tampere, Finland, May 2008.

TUTORIALS, INVITED LECTURES AND KEYNOTE SPEECHES

I have given many presentations at international conferences, at leading institutions and at national and international project meetings.

The tutorials and invited lectures that I have given include:

- **Invited speaker** at the 8th IEEE Communication Theory Workshop, on "Algorithms for Efficient Battery Discharge in Wireless Communication Devices," Aptos, California, May 1999.
- **Invited speaker** at IEEE Annual Computer Communications Workshop on "Algorithms for Bluetooth Topology Formation", at the 17th, Santa Fe, New Mexico, October 2002.
- **Invited speaker** at the 4th COST 263 International Workshop on Quality of Future Internet Services (QoIFS) on "Providing Transport-Layer Fairness in 802.11 WLANs", Stockholm, Sweden, October 2003.
- **Invited lecture** on "Wireless Sensor Networks," within the UWB Workshop, Torino, Italy, Nov. 2004, organized by Prof. Sergio Benedetto.
- **Tutorial** on "Wireless Ad Hoc Networks", at IEEE ICC 2004, Paris, France, June 2004.
- **Tutorial** on "Wireless Ad Hoc Networks", at IEEE ICC 2005, Seoul, Korea, May 2005.
- **Keynote speech** at the Med-Hoc-Net Conference, June 2012.
- Invited presentation on "Vehicular Networks: Deployment and Services", Monash University, Melbourne, Australia, August 2012.
- **Invited speaker** at the Networld2020 Experts Workshop, Stuttgart, Germany, Feb. 2014.
- Invited Position Paper at IEEE ICNC 2015, Anheim, LA, U.S.
- **Invited speaker** at the 27th IEEE Annual Computer Communications Workshop (IEEE CCW), Panel on Vehicular Networking and Disaster Area Coverage, Philadelphia, U.S., November 7-8, 2014. The IEEE CCW is the flagship workshop of the Technical Committee on Computer Communications (TCCC) of the IEEE Communications Society.
- **Invited speaker** at the Italy-Taiwan joint workshop on Smart Cities and Smart Mobility, organized by CNR in Rome (February 26-27, 2015).

I have been invited to submit technical papers to 10 conferences, including prestigious conferences such as IEEE APWC, IEEE ICC, IEEE ICNC, IEEE WD 2010, and IEEE Communications Theory Workshop and IEEE Information Theory Workshop.

EDITORIAL ACTIVITIES

- **Associate editor of _IEEE Transactions on Mobile Computing_** (October 2012 – present)
- Associate editor of Computer Communications Journal (ELSEVIER) (November 2008 – present)
- **Advisory Board-SWAT Team of IEEE Communications Letters** (since April 2012)
- Associate editor of _EAI Transactions on Internet of Things_ (July 2015 – present)
- **Associate editor of _IEEE Transactions on Wireless Communications_** (January 2010– April 2015)
- **Associate editor of _IEEE Wireless Communications Magazine_** (April 2009 – September 2012)
- Associate editor of Ad Hoc Networks Journal (ELSEVIER) (June 2002 – September 2012)
- **Associate Editor of IEEE Communications Letters** (March 2004 – March 2010)
- **Senior editor of IEEE Communications Letters** (March 2010 – March 2012).

I have been the Guest Co-editor for the following special issues:

- Special Issue of Journal of Communications and Networks (JCN) on Mobile Ad Hoc Networks (December 2004);
- Special Issue of ACM/Kluwer Wireless Networks Journal (WINET) on Selected Papers of MSWiM 2003 (September 2005);
- Special Issue of Performance Evaluation on QoS in Wireless Networks (June 2007);

- Special Issue of Computer Networks on Performance of Wireless Networks (January 2008);
- Special Issue of IEEE Wireless Communications Magazine on Cognitive Radio Networks: A Practical Perspective (August 2012)
- Special Issue of Computer Communications (ELSEVIER) on Mobile Ubiquitous Sensing (2015).

CHARING AND PARTICIPATION IN TECHNICAL PROGRAM COMMITTEES AND ORGANIZING COMMITTEES OF INTERNATIONAL CONFERENCES

- I have been appointed **General Chair** of the following international conferences:
  - 9th Annual Conference on Wireless On demand Network Systems and Services (IEEE/IFIP WONS 2012), Courmayeur, Italy, Jan. 2012
  - 10th ACM International Symposium on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2007), Chania, Greece, Oct. 2007
  - 9th ACM International Symposium on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2006), Torremolinos, Malaga, Spain, Oct. 2006.

- I have been appointed **Technical Program Co-chair** of:
  - Workshop PMF-Win, IEEE ISWCS, Brussels, Belgium, Aug. 2015.
  - First IEEE International Forum on Research and Technologies for Society and Industry, Turin, Italy, Sept. 2015.
  - DCOSS 2014 (Track Vice Chair for the Algorithms and Performance Analysis Track).
  - IEEE VTC-Fall, Track on Ad Hoc and Sensor Networks, San Francisco, CA, Sept. 2011
  - 10th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc 2009), New Orleans, LA, USA, May 2009
  - Poster Session of the 7th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc 2006), Florence, Italy, May 2006
  - Annual Conference on Wireless On demand Network Systems and Services (IEEE/IFIP WONS 2006), Les Menuires, France, Jan. 2006
  - 8th ACM International Symposium on Modelling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2005), Montreal, Canada, Oct. 2005
  - 7th ACM International Symposium on Modelling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2004), Venice, Italy, Oct. 2004
  - 6th ACM International Workshop on Modelling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM 2003), San Diego, CA, Sept. 2003.

- I have been appointed as **Area TPC Chair for IEEE INFOCOM 2013, 2014 and 2015, and as TPC Group Leader for IEEE SECON 2013 and 2015**.

- I have been appointed as **Panel Co-Chair for the prestigious conference, ACM MobiHoc 2016**.

- I have been registration co-chair for ACM SIGCOMM 2010, New Delhi, India, Aug. 2010.

- I have been a **Technical Program Committee Member of many international leading conferences**, including:
  - IEEE INFOCOM 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014
  - ACM MobiHoc 2006, 2007, 2010, 2013, 2014, 2015, 2016

- IEEE/ACM MobiCom 2004, 2005 and 2006
- IEEE SECON 2013, 2014
- IEEE ICC (from 2003 till 2013)
- IEEE GLOBECOM (from 2003 till 2014)
- IEEE VTC (from 2003 till 2011)
- IEEE PIMRC (from 2011 till 2013)
- COMSNETS 2014.

- I have been the organizer of two sessions at the IEEE International Forum on Research and Technologies for Society and Industry, Turin, Italy, Sept. 2015, of one special session at the European Wireless Technology conference (EuWiT), Rome, Italy, September 2009, and at the European Wireless Conference (EWC 2002), Florence, Italy, February 2002.

AWARDS
- My paper entitled "Pulsed Battery Discharge in Communication Devices," has been selected as one of the **"Top Three Outstanding Papers"** at IEE/ACM MobiCom '99.
- My paper entitled "When Services Go Local," has been selected as one of the **"Three Best Papers"** at IEEE/ACM MSWiM 2009.
- My paper entitled "Content Downloading in Vehicular Networks: Bringing Parked Cars Into the Picture has been selected as one of the "Three Best Papers" at IEEE PIMRC 2012.
- In 2006, I have been awarded from Politecnico di Torino as one of the best young researchers.
- In 2010, I have been awarded as "Best Editor" for the Ad Hoc Networks journal (Elsevier, EiC: Prof. Ian Akyildiz).
- In 2012, my paper "Content Discovery and Caching in Mobile Networks with Infrastructure," has been selected to appear in the research highlights of the IEEE Transactions on Computers (Computing Now).
- My paper entitled "Estimation Quality of High-dimensional Fields in Wireless Sensor Networks," has won the **"Best Paper Award"** at SPACOMM 2014.
- My paper entitled "A Passive Solution for Interference Estimation in WiFi Networks," has won the **"Best Paper Award"** at AD HOC NOW 2014.
- I have been admitted to the second step of the selection procedure for the European Research Council (ERC) Consolidator Grant, September 2014. In January 2015 my proposal has received "A" as final evaluation (i.e., fundable).
- I have served as TPC Chair for the international conference IEEE/ACM MobiHoc 2009 and I serve as Area TPC Chair for the international conferences IEEE INFOCOM 2013, 2014 and 2015, and IEEE SECON 2013. Such conferences are among the most prestigious conferences in networking, testifying the international recognition of my research activity.
- Selected among the top 18 Young Researchers at Politecnico di Torino, in October 2015.
- I am a Senior Member of IEEE since 2008.

PARTICIPATION IN EVALUATION COMMITTEES
- April-July 2012: Member of the Evaluation Committee for the appointment of a technician at the National Research Council (IEIIT)-CNR
- June and July 2013: Member of the jury for the Habilitation à Diriger des Recherches (HDR) of Dr. Jerome Haerri and Dr. Pietro Michiardi, Eurecom, France
- December 2013: Member of the Committee on the Admission to the PhD Program in Electronics Engineering at Politecnico di Torino

- May 2014: Member of the Committee on the selection of an Assistant Professor at the University of Bologna, Italy
- June 2014: Referee for the promotion of Dr. Jerome Haerri as Associate Professor (MdC Class 1), Eurecom, France
- July 2014: Member of the jury for the Habilitation à Diriger des Recherches (HDR) of Dr. Marco Fiore (University of Lyon, France).

Furthermore, I have been part of several PhD Dissertation committees at national and international institutions. Specifically, I have been in the PhD Dissertation committee of:
- PhD candidates in Telecommunications at the University of Padua, Italy, 2006, Prof. Michele Zorzi
- Mr. Chi-Anh La, EURECOM, France, 2010, advisor: Dr. Pietro Michiardi
- Mr. Miguel Sepulcre, Universidad Miguel Hernandez de Elche, Spain, 2010, advisor: Dr. Javier Gozálvez
- PhD candidates in Computer Science at the University of Rome "La Sapienza", 2008, Prof. Alessandro Panconesi
- PhD candidates in Telecommunications at Politecnico di Milano, Italy, 2011, Prof. Andrea Melloni
- PhD candidates in Telecommunications at the Università Mediterranea di Reggio Calabria, 2011, Dr. Antonella Molinaro
- PhD candidates in Telecommunications at the University of Parma, 2011, Dr. Gianluigi Ferrari
- Mr. Andreas Xeros, University of Cyprus, Cyprus, 2012, advisor: Prof. Andreas Pitsillides
- PhD candidates in Telecommunications at the University of Padua, Italy, 2013, Prof. Michele Zorzi
- Ms. Fatma Hrizi, Telecom ParisTech Ph.D Thesis, France, 2013, advisor: Dr. Jerome Haerri
- Mr. Michele Rondinone, Universidad Miguel Hernandez de Elche, Spain, 2013, advisor: Dr. Javier Gozálvez.

TEACHING ACTIVITIES AND RESPONSABILITIES
- In 2014 and 2015, I led the definition of the curricula of the MSc in Communications and Computer Networks.

- In 2014, I held a PhD course at the 1st EIT ICT Summer School on Cyber Physical System, Trento, Italy, July 2014.

- Since 2001, I have been instructor for 2-3 undergraduate and graduate courses per year, on Wireless Networks at Politecnico di Torino. I consistently achieved high scores during internal teaching reviews. I also held several Specializing Master (II Level Master) courses at Politecnico di Torino. Below is the detailed list of the courses that I held; unless otherwise specified, they are graduate courses.

  - 2001/02: "Evolution of Mobile Telecommunications Networks" within the Specializing Master in Wireless Systems and Related Technologies.
  - 2002/03: "Wireless Networks" (undergraduate); "Mobile Networks" and "Evolution of Mobile Telecommunications Networks" (the latter two within the Specializing Master in Wireless Systems and Related Technologies).
  - 2003/04: "Wireless Networks" (undergraduate); "Evolution of Mobile Telecommunications Networks" (the latter within the Specializing Master in Wireless Systems and Related Technologies).
  - 2004/05: "Wireless Networks" (undergraduate); "Evolution of Mobile Telecommunications Networks s" (the latter within the Specializing Master in Wireless Systems and Related Technologies).

- 2005/06: "Evolution of mobile networks"; "Wireless Networks"; "Evolution of Mobile Telecommunications Networks" (the latter within the Specializing Master in Wireless Systems and Related Technologies).
- 2006/07: "Evolution of Mobile Telecommunications Networks" within the Specializing Master in Wireless Systems and Related Technologies.
- 2007/08: "Wireless Networks" (undergraduate); "Ad Hoc and Sensor Networks"; "Evolution of Mobile Telecommunications Networks" (the latter within the Specializing Master in Wireless Systems and Related Technologies).
- 2008/09: "Wireless Networks" (undergraduate); "Ad Hoc and Sensor Networks"; "Evolution of Mobile Telecommunications Networks" (the latter within the Specializing Master in Wireless Systems and Related Technologies).
- 2009/10: "Wireless Networks"; "Ad Hoc and Sensor Networks"; "Evolution of Mobile Telecommunications Networks" (the latter within the Specializing Master in Wireless Systems and Related Technologies).
- 2010/11: "Wireless Networks"; "Mobile and Sensor Networks"; "Evolution of Mobile Telecommunications Networks" (the latter within the Specializing Master in Wireless Systems and Related Technologies).
- 2011/12: "Wireless Networks for Multimedia Applications"; "Mobile and Sensor Networks"; "Evolution of Mobile Telecommunications Networks" (the latter within the Specializing Master in Wireless Systems and Related Technologies).
- 2012/13: "Wireless Networks for Multimedia Applications"; "Mobile and Sensor Networks", "Reti Wireless per Multimedia".
- 2013/14: "Mobile and Sensor Networks"; "Advanced Wireless Networks" (the latter within the Specializing Master in Future Broadband Networks).

Publications

Journal papers

1. Malandrino F., Limani Z., Casetti C., Chiasserini C.F., *Interference-Aware Downlink and Uplink Resource Allocation in HetNets with D2D Support.* In: IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol. 14, no. 5, pp. 2729-2741, **2015**.

2. Malandrino F., Casetti C., Chiasserini C.F., *A Holistic View of ITS-Enhanced Charging Markets.* In: IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, vol. 16, no. 4, pp., 1736-1745, **2015**.

3. Zhou S., Nordio A., Alfano G., Chiasserini C.F., *Ergodic Capacity Analysis of MIMO Relay Network over Rayleigh-Rician Channels.* In: IEEE COMMUNICATIONS LETTERS, vol. 19 n. 4, pp. 601-604 - ISSN 1089-7798, **2015**.

4. Malandrino F., Casetti C., Chiasserini C.F., Reineri M., *A Game-theory Analysis of Charging Stations Selection by EV Drivers.* In: PERFORMANCE EVALUATION, vol. 83-84, pp. 16-31 - ISSN 0166-5316, **2015**.

5. G. Alfano, C.F. Chiasserini, A. Nordio, S. Zhou, *Closed-form Output Statistics of MIMO Block-Fading Channels.* In: IEEE TRANSACTIONS ON INFORMATION THEORY, vol. 60 n. 12, pp. 7782 -7797, - ISSN 0018-9448, **2014.**

6. Malandrino F., Casetti C., Chiasserini C.F., *Towards D2D-Enhanced Heterogeneous Networks.* In: IEEE COMMUNICATIONS MAGAZINE, vol. 52 n. 11, pp. 94-100, - ISSN 0163-6804, **2014.**

7. Malandrino F., Borgiattino C., Casetti C., Chiasserini C.F., Fiore M., Sadao R., *Verification and Inference of Positions in Vehicular Networks through Anonymous Beaconing.* In: IEEE TRANSACTIONS ON MOBILE COMPUTING. vol. 13 n. 10, 2415 -2428 - ISSN 1536-1233, **2014**.

8. Malandrino F., Casetti C., Chiasserini C.F., Sommer C., Dressler F., *The Role of Parked Cars in Content Downloading for Vehicular Networks.* In: IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY. vol. 63 n. 9, pp. 4606-4617- ISSN 0018-9545, **2014.**

9. Malandrino F., Casetti C., Chiasserini C.F., Fiore M., *Content Download in Vehicular Networks in Presence of Noisy Mobility Prediction.* In: IEEE TRANSACTIONS ON MOBILE COMPUTING, vol. 13 n. 5, pp. 1007-1021 - ISSN 1536-1233, **2014**.

10. Fogue M., Martinez F.J., Garrido P., Fiore M., Chiasserini C.F., Casetti C., Cano J.-C., Calafate C.T., Manzoni P., *Securing Warning Message Dissemination in VANETs using Cooperative Neighbor Position Verification.* In: IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol. 64, no. 6, pp. 2538-2550 - ISSN 0018-9545, **2014**.

11. Malandrino F., Casetti C., Chiasserini C.F., Fiore M., *Content Download in Vehicular Networks in Presence of Noisy Mobility Prediction.* In: IEEE TRANSACTIONS ON MOBILE COMPUTING, vol. 13 n. 5, pp. 1007-1021. - ISSN 1558-0660, **2014**.

12. Nordio A., Chiasserini C.F., Tarable A., Bounds to Fair Rate Allocation and Communication Strategies in Source/Relay Wireless Networks, In: IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol. 13, n. 1, pp. 1536-1276 - ISSN 1536-1276, **2014**.

13. Chiasserini C.-F., Viterbo E., Casetti C., *Decoding Probability in Random Linear Network Coding with Packet Losses.* In: IEEE COMMUNICATIONS LETTERS. - ISSN 1089-7798, **2013**.

14. Malandrino F., Casetti C., Chiasserini C.-F., Fiore M., *Optimal Content Downloading in Vehicular Networks.* In: IEEE TRANSACTIONS ON MOBILE COMPUTING, vol. 12 n. 7, pp. 1377-1391. - ISSN 1536-1233, **2013**.

15. Fiore M., Casetti C., Chiasserini C.-F., Borsetti D., *Persistent Localized Broadcasting in VANETs.* In: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, vol. 31 n. 9, pp. 480-490. - ISSN 0733-8716, **2013**.

16. Nordio A., Forutan V., Chiasserini C.-F., *Upper Bounds to the Performance of Cooperative Traffic Relaying in Wireless Linear Networks.* In: IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol. 12 n. 3, pp. 1398-1406. - ISSN 1536-1276, **2013**.

17. Malandrino F., Casetti C., Chiasserini C.-F., *Discovery and Provision of Content in Vehicular Networks.* In: WIRELESS COMMUNICATIONS AND MOBILE COMPUTING, vol. 13 n. 3, pp. 244-254. - ISSN 1530-8669, **2013**.

18. Fiore M., Casetti C., Chiasserini C.-F., Papadimitratos P., *Discovery and Verification of Neighbor Positions in Mobile Ad Hoc Networks.* In: IEEE TRANSACTIONS ON MOBILE COMPUTING, vol. 12 n. 2, pp. 289-303. - ISSN 1536-1233, **2013**.

19. Malandrino F., Casetti C., Chiasserini C.F., *Content Discovery and Caching in Mobile Networks with Infrastructure.* In: IEEE TRANSACTIONS ON COMPUTERS, vol. 61 n. 10, pp. 1507-1520. - ISSN 0018-9340, **2012**.

20. Masri A.M., Chiasserini C.F., Casetti C., Perotti A., *Common Control Channel Allocation in Cognitive Radio Networks through UWB Communication.* In: JOURNAL OF COMMUNICATIONS AND NETWORKS, vol. 14 n. 6, pp. 710-718. - ISSN 1229-2370, **2012**.

21. La C.-A., Michiardi P., Casetti C., Chiasserini C.-F., Fiore M., *Content Replication in Mobile Networks.* In: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, vol. 30 n. 9, pp. 1762-1770. - ISSN 0733-8716, **2012**.

22. Chiasserini C.F., Di Benedetto M.-G., Zhang P., Jing X., *Cognitive Radio Networks: A Practical Perspective.* In: IEEE WIRELESS COMMUNICATIONS, vol. 19 n. 4, pp. 7-8. - ISSN 1536-1284, **2012**.

23. Campolo C., Casetti C., Chiasserini C.-F., Molinaro A., *A Multirate MAC Protocol for Reliable Multicast in Multihop Wireless Networks.* In: COMPUTER NETWORKS, vol. 56 n. 5, pp. 1554-1567. - ISSN 1389-1286, **2012**.

24. Nordio A., Chiasserini C.F., T. Elbatt, *Fair Traffic Relaying for Two-Source-One-Destination Wireless Networks.* In: IEEE WIRELESS COMMUNICATIONS LETTERS, vol. 1 n. 1, pp. 6-9. - ISSN 2162-2337, **2012**.

25. Nordio A., Alfano G., Chiasserini C.-F., Tulino A.M., *Asymptotics of Multifold Vandermonde Matrices With Random Entries.* In: IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol. 59 n. 6, pp. 2760-2772. - ISSN 1053-587X, **2011**.

26. Soldo F., Casetti C., Chiasserini C.-F., Chaparro Alonso P., *Video Streaming Distribution in VANETs.* In: IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS, vol. 22 n. 7, pp. 1085-1091. - ISSN 1045-9219, **2011**.

27. Fiore M., Casetti C., Chiasserini C.-F., *Caching Strategies Based on Information Density Estimation in Wireless Ad Hoc Networks.* In: IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol. 60 n. 5, pp. 2194-2208. - ISSN 0018-9545, **2011**.

28. Borsetti B., Fiore M., Casetti C., Chiasserini C.F., *An Application-level Framework for Information Dissemination and Collection in Vehicular Networks.* In: PERFORMANCE EVALUATION, vol. 68 n. 9, pp. 876-896. - ISSN 0166-5316, **2011**.

29. Annese S., Casetti C., Chiasserini C.-F., Di Maio N., Ghittino A., Reineri M., *Seamless Connectivity and Routing in Vehicular Networks with Infrastructure.* In: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, vol. 29 n. 3, pp. 501-514. - ISSN 0733-8716, **2011**.

30. Nordio A., Chiasserini C.-F., *Field Reconstruction in Sensor Networks with Coverage Holes and Packet Losses.* In: IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol. 59 n. 8, pp. 3943-3953. - ISSN 1053-587X, **2011**.

31. Gribaudo M., Manini D., Nordio A., Chiasserini C.-F., *Transient Analysis of IEEE 802.15.4 Sensor Networks.* In: IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol. 10 n. 4, pp. 1165-1175. - ISSN 1536-1276, **2011**.

32. Garetto M., Nordio A., Chiasserini C.F., Leonardi E., *Information-Theoretic Capacity of Clustered Random Networks.* In: IEEE TRANSACTIONS ON INFORMATION THEORY, vol. 57 n. 11, pp. 7578-7596. - ISSN 0018-9448, **2011**.

33. Trullols O; Fiore M; Casetti C.; Chiasserini C.-F; Barcelo Ordinas J. M, *Planning Roadside Infrastructure for Information Dissemination in Intelligent Transportation Systems.* In: COMPUTER COMMUNICATIONS, vol. 33 n. 4, pp. 432-442. - ISSN 0140-3664, **2010**.

34. Nordio A.; Chiasserini C.F.; Muscariello A., *Signal Reconstruction in Sensor Networks with Flat and Clustered Topologies.* In: COMPUTER NETWORKS, vol. 54 n. 6, pp. 991-1004. - ISSN 1389-1286, **2010**.

35. Nordio A.; Chiasserini C.F.; Viterbo E., *Asymptotic analysis of multidimensional jittered sampling.* In: IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol. 58 n. 1, pp. 258-268. - ISSN 1053-587X, **2010**.

36. Nordio A.; Chiasserini C.F.; Viterbo E*., The Impact of Quasi-equally Spaced Sensor Topologies on Signal Reconstruction.* In: ACM TRANSACTIONS ON SENSOR NETWORKS, vol. 6 n. 2, pp. 1-31. - ISSN 1550-4859, **2010**.

37. Mahani A; Naderi M; Casetti C.; Chiasserini C.-F., *Enhancing Channel Utilization in Mesh Networks.* In: AEÜ. INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol. 63 n. 12, pp. 1026-1034. - ISSN 1434-8411, **2009**.

38. Mahani A.K; Naderi M; Casetti C; Chiasserini C.F., *MAC-layer Channel Utilisation Enhancements for Wireless Mesh Networks.* In: IET COMMUNICATIONS, vol. 3 n. 5, pp. 794-807. - ISSN 1751-8628, **2009**.

39. Fiore M.; Casetti C; Chiasserini C.-F., *Information Density Estimation for Content Retrieval in MANETs.* In: IEEE TRANSACTIONS ON MOBILE COMPUTING, vol. 8 n. 3, pp. 289-303. - ISSN 1536-1233, **2009**.

40. Chiasserini C.F.; Sotiris Nikoletseas; Nael Abu-Ghazaleh, *Modeling and analysis of wireless networks: Selected papers from MSWiM 2007.* In: PERFORMANCE EVALUATION, vol. 66 n. 3-5, pp. 139-140. - ISSN 0166-5316, **2009**.

41. Carofiglio G; Chiasserini C.F.; Garetto M.; Leonardi E., *Route Stability in MANETs under the Random Direction Mobility Model.* In: IEEE TRANSACTIONS ON MOBILE COMPUTING, vol. 8 n. 9, pp. 1167-1179. - ISSN 1536-1233, **2009**.

42. Nordio A.; Chiasserini C.F.; Viterbo E., *Signal Reconstruction Errors in Jittered Sampling.* In: IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol. 57 n. 12, pp. 4711-4718. - ISSN 1053-587X, **2009**.

43. Casetti C.; Chiasserini C.F.; Fracchia R.; Meo M., *Autonomic Interface Selection for Mobile Wireless Users.* In: IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol. 57, pp. 3666-3678. - ISSN 0018-9545, **2008**.

44. Garetto M.; Gribaudo M.; Chiasserini C.F.; Leonardi E., *Sensor Deployment and Relocation: A Unified Scheme.* In: JOURNAL OF COMPUTER SCIENCE AND TECHNOLOGY, vol. 23 n. 3, pp. 400-412. - ISSN 1000-9000, **2008**.

45. Abu-Ghazaleh N.; Alba E.; Chiasserini C.F.; Lo Cigno R., *Guest Editorial.* In: COMPUTER NETWORKS, vol. 52 n. 1, pp. 1-3. - ISSN 1389-1286, **2008**.

46. Nordio A.; Chiasserini C.-F.; Viterbo E., *Performance of Linear Field Reconstruction Techniques with Noise and Uncertain Sensor Locations.* In: IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol. 56 n. 8, pp. 3535-3547. - ISSN 1053-587X, **2008**.

47. Nordio A.; Chiasserini C.-F.; Viterbo E., *Reconstruction of Multidimensional Signals from Irregular Noisy Samples.* In: IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol. 56 n. 9, pp. 4274-4285. - ISSN 1053-587X, **2008**.

48. Alfieri A; Bianco A.; Brandimarte P.; Chiasserini C.F., *Maximizing system lifetime in wireless sensor networks.* In: EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol. 181 n. 1, pp. 390-402. - ISSN 0377-2217, **2007**.

49. Bottigliengo M.; Casetti C.; Chiasserini C.F.; Meo M., *Enhancing fairness for short-lived TCP flows in 802.11b WLANs.* In: IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol. 56 n. 1, pp. 206-217. - ISSN 0018-9545, **2007**.

50. Fracchia R.; Casetti C.; Chiasserini C.F.; Meo M., *WiSE: Best-path Selection in Wireless Multihoming Environments.* In: IEEE TRANSACTIONS ON MOBILE COMPUTING, vol. 6, pp. 1130-1141. - ISSN 1536-1233, **2007**.

51. Chiasserini C.F.; Srinivasan V., *Guest Editorial: Quality of service in ad hoc and sensor networks.* In: PERFORMANCE EVALUATION, vol. 64 n. 5, pp. 377-378. - ISSN 0166-5316, **2007**.

52. Kiss Kallo' C.K.K.; Chiasserini C.F.; Jung S.; Brunato M.; Gerla M., *Hop Count Based Optimization of Bluetooth Scatternets.* In: AD HOC NETWORKS, vol. 5 n. 3, pp. 340-359. - ISSN 1570-8705, **2007**.

53. Chiasserini C.F.; Gaeta R.; Garetto M.; Gribaudo M.; Mannini D.; Sereno M., *Fluid Models for Large-Scale Wireless Sensor Networks.* In: PERFORMANCE EVALUATION, vol. 64 n. 7-8, pp. 715-736. - ISSN 0166-5316, **2007**.

54. Fiore M.; Casetti C.; Chiasserini C.F.; Garetto M., *Analysis and Simulation of a Content Delivery Application for Vehicular Wireless Networks.* In: PERFORMANCE EVALUATION, vol. 64 n. 5, pp. 444-463. - ISSN 0166-5316, **2007**.

55. Ajmone Marsan M.; Chiasserini C.F.; Nucci A., *Forming Optimal Topologies for Bluetooth-based Wireless Personal Area Networks.* In: IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol. 5 n. 4, pp. 763-773. - ISSN 1536-1276, **2006**.

56. Nuggehalli P.; Srinivasan V.; Chiasserini C.F.; Rao R.R., *Efficient Cache Placement in Multi-hop Wireless Networks.* In: IEEE-ACM TRANSACTIONS ON NETWORKING, vol. 14 n. 5, pp. 1045-1055. - ISSN 1063-6692, **2006**.

57. Baiamonte V.; Chiasserini C.F., *Saving Energy during Channel Contention in 802.11 WLANs.* In: JOURNAL ON SPECIAL TOPICS IN MOBILE NETWORKS AND APPLICATIONS, vol. 11 n. 2, pp. 287-296. - ISSN 1383-469X, **2006**.

58. Chiasserini C.F.; Garetto M., *An Analytical Model for Wireless Sensor Networks with Sleeping Nodes.* In: IEEE TRANSACTIONS ON MOBILE COMPUTING, vol. 5 n. 12, pp. 1706-1718. - ISSN 1536-1233, **2006**.

59. Carofiglio G.; Chiasserini C.F.; Garetto M.; Leonardi E., *Analysis of Route Stability under the Random Direction Mobility Model.* In: PERFORMANCE EVALUATION REVIEW, vol. 34 n. 3, pp. 36-38. - ISSN 0163-5999, **2006**.

60. Srinivasan V.; Nuggehalli P.; Chiasserini C.F.; Rao R.R., *An Analytical Approach to the Study of Cooperation in Wireless Ad Hoc Networks.* In: IEEE TRANSACTIONS ON WIRELESS, 2005. COMMUNICATIONS, vol. 4 n. 2, pp. 722-733. - ISSN 1536-1276, **2005**.

61. Chiasserini C.F.; Ayani R., *Editorial.* In: WIRELESS NETWORKS, vol. 11 n. 5, pp. 541-542. - ISSN 1022-0038, **2005**.

62. Wang K.; Chiasserini C.F.; Rao R.R.; Proakis J., *Joint Scheduling and Power Control Supporting Multicasting in Wireless Ad Hoc Networks.* In: AD HOC NETWORKS, vol. 4 n. 4, pp. 532-546. - ISSN 1570-8705, **2005**.

63. Wang K.; Chiasserini C.F.; Proakis J.; Rao R.R., *A Joint Solution to Scheduling and Power Control for Multicasting in Wireless Ad Hoc Networks.* In: EURASIP JOURNAL ON APPLIED SIGNAL PROCESSING, vol. 2005 n. 1, pp. 144-152. - ISSN 1110-8657, **2005**.

64. Chiasserini C.F.; Ajmone Marsan M.G., *A Distributed Self-healing Approach to Bluetooth Scatternet Formation.* In: IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol. 4 n. 6, pp. 2649-2654. - ISSN 1536-1276, **2005**.

65. Chiasserini C.F.; Cuomo F.; Piacentini L.; Rossi M.; Tinnirello I.; Vacirca F., *Architectures and Protocols for Mobile Computing Applications: a Reconfigurable Approach.* In: COMPUTER NETWORKS, vol. 44 n. 4, pp. 545-567. - ISSN 1389-1286, **2004**.

66. Gerla M.; Chiasserini C.F.; Mase K.; Modiano E.; J. Redi J., *Editorial.* In: JOURNAL OF COMMUNICATIONS AND NETWORKS, vol. 6 n. 4. - ISSN 1229-2370, **2004**.

67. Chiasserini C.F.; Chlamtac I.; Monti P.; Nucci A., *An Energy Efficient Method for Nodes Assignment in Cluster-based Ad Hoc Networks.* In: WIRELESS NETWORKS, vol. 10, pp. 223-231. - ISSN 1022-0038, **2004**.

68. Srinivasan V.; Chiasserini C.F.; Nuggehalli P.; Rao R.R., *Optimal Rate Allocation for Energy-Efficient Multipath Routing in Wireless Ad Hoc Networks.* In: IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol. 3 n. 3, pp. 891-899. - ISSN 1536-1276, **2004**.

69. Chiasserini C.F.; E. Magli, *Energy-efficient Coding and Error Control for Wireless Video-surveillance Networks.* In: TELECOMMUNICATION SYSTEMS, vol. 26 n. 2-4, pp. 369-387. - ISSN 1018-4864, **2004**.

70. Chiasserini C.F.; Rao R.R., *Coexistence Mechanisms for Interference Mitigation in the 2.4-GHz ISM Band.* In: IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol. 2 n. 5, pp. 964-975. - ISSN 1536-1276, **2003**.

71. Chiasserini C.F.; Rao R.R., *Improving Energy Saving in Wireless Systems by Using Dynamic Power Management.* In: IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol. 2 n. 5, pp. 1090-1100. - ISSN 1536-1276, **2003**.

72. Chiasserini C.F.; Meo M., *Impact of ARQ Protocols on QoS in 3GPP Systems.* In: IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol. 52 n. 1, pp. 205-215. - ISSN 0018-9545, **2003**.

73. Chiasserini C.F.; Lo Cigno R., *Handovers in Wireless ATM Networks: In-band Signaling Protocols and Performance Analysis.* In: IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol. 1 n. 1, pp. 87-100. - ISSN 1536-1276, **2002**.

74. Chiasserini C.F.; Meo M., *A Reconfigurable Protocol Setting to Improve TCP over Wireless.* In: IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol. 51 n. 6, pp. 1608-1620. - ISSN 0018-9545, **2002**.

75. Ajmone Marsan M.; Chiasserini C.F.; Fumagalli A.; Lo Cigno R.; Munafo' M., *Local and Global Handovers Based on In-Band Signaling in Wireless ATM Networks.* In: WIRELESS NETWORKS, vol. 7 n. 4, pp. 425-436. - ISSN 1022-0038, **2001**.

76. Chiasserini C.F.; Rao R.R., *Energy Efficient Battery Management.* In: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, vol. 19 n. 7, pp. 1235-1245. - ISSN 0733-8716, **2001**.

77. Chiasserini C.F.; Rao R.R., *Improving Battery Performance by Using Traffic Shaping Techniques.* In: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, vol. 19 n. 7, pp. 1385-1394. - ISSN 0733-8716, **2001**.

78. Ajmone Marsan M.G.; Chiasserini C.F.; Fumagalli A., *Performance Models of Handover Protocols and Buffering Policies in Mobile Wireless ATM Networks.* In: IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol. 50 n. 4, pp. 925-941. - ISSN 0018-9545, **2001**.

79. Chiasserini C.F.; Rao R.R., *Stochastic Battery Discharge in Portable Communication Devices.* In: IEEE AEROSPACE AND ELECTRONIC SYSTEMS MAGAZINE, vol. 15 n. 8, pp. 41-45. - ISSN 0885-8985, **2000**.

80. Ajmone Marsan M.; Bianco A.; Casetti C.; Chiasserini C.F.; Francini A.; Lo Cigno R.; Munafo' M., *An Integrated Simulation Environment for the Analysis of ATM Networks at Multiple Time Scales.* In: COMPUTER NETWORKS AND ISDN SYSTEMS, vol. 29, pp. 2165-2185. - ISSN 0169-7552, **1998**.

81. Ajmone Marsan M.; Chiasserini C.F; Fumagalli A.; Lo Cigno R.; Munafo' M., *Local and Global Handovers Based on In-Band Signaling in Wireless ATM Networks.* In: MOBILE COMPUTING AND COMMUNICATIONS REVIEW, vol. 2, pp. 28-36. - ISSN 1559-1662, **1998**.

82. Ajmone Marsan M.; Chiasserini C.F.; Fumagalli A.; Lo Cigno R.; Munafo' M., *Local and Global Handovers for Mobility Management in Wireless ATM Networks.* In: IEEE PERSONAL COMMUNICATIONS, vol. 4, pp. 16-24. - ISSN 1070-9916, **1997**.

Book chapters

83. Reineri M., Casetti C., Chiasserini C.-F., Fiore M., Trullols-Cruces O., Barcelo-Ordinas J.M., *RSU Deployment for Content Dissemination and Downloading in Intelligent Transportation Systems.* In: Roadside Networks for Vehicular Communications: Architectures, Applications and Test Fields / Daher R., Vinel A. IGI Global, pp. 93-118. ISBN 9781466622234, **2012**.

84. Castro M; Kassler A; Chiasserini C.-F; Casetti C.; Korpeoglu I, *Peer-to-Peer Overlay in Mobile Ad Hoc Networks.* In: Handbook of Peer-to-Peer Networking / XUEMIN SHERMAN SHEN; HEATHER YU; JOHN BUFORD; MURSALIN AKON. Springer. ISBN 9780387097503, **2010**.

85. Fiore M; Casetti C.; Chiasserini C.-F, *Information Sharing in VANETs.* In: Advances in Vehicular Ad-Hoc Networks: Developments and Challenges. IGI Global, pp. 75-96. ISBN 9781615209132, **2010**.

86. Borsetti D; Casetti C; Chiasserini C.F.; Liquori L, *Content discovery in heterogeneous mobile networks.* In: Heterogeneous Wireless Access Networks / EKRAM HOSSAIN. Springer, NEW YORK, pp. 419-438. ISBN 9780387097763, **2008**.

87. L. Liquori; D. Borsetti; Casetti C.; Chiasserini C, *An Overlay Architecture for Vehicular Networks.* In: NETWORKING 2008 Ad Hoc and Sensor Networks, Wireless Networks, Next Generation Internet, Lecture Notes in Computer Science / Amitabha Das, Hung Keng Pung, Francis BuSung Lee and Lawrence WaiChoong Wong. SPRINGER, Berlin, Heidelberg, New York, pp. 60-71. ISBN 9783540795483, **2008**.

88. Chiasserini C.F.; R. Gaeta; M. Garetto; M. Gribaudo; M. Sereno, *Message Broadcasting in Wireless Vehicular Ad Hoc Networks.* In: Advances in Wireless Networks: Performance Modelling, Analysis and Enhancement / G. MIN; Y. PAN; P. FAN. Nova Science, pp. 215-242. ISBN 1600217133, **2008**.

89. D. Rossi; C. Casetti; Chiasserini C.F., *An Empirical Study on Communication Performance of Stationary and Mobile Sensors.* In: Sensor Network and Configuration: Fundamentals, Techniques, Platforms, and Experiments / N. P. MAHALIK. Springer-Verlag, pp. 237-258. ISBN 9783540373643, **2007**.

90. Baiamonte V; Fiore M; Casetti C.; Chiasserini C.-F, *Cross-layer Solutions for Traffic Forwrading in Mesh Networks.* In: Wireless Mesh Networks: Architectures and Protocols / E. HOSSAIN AND K. K. LEUNG. Springer-Verlag, NEW-YORK, pp. 245-276. ISBN 9780387688381, **2007**.

91. E. Masala; C.F. Chiasserini; M. Meo; De Martin J.C., *Real-Time Transmission of H.264 Video Over 802.11b-Based Wireless Ad Hoc Networks.* In: DSP for In-Vehicle and Mobile Systems / H. ABUT; J.H.L. HANSEN; K. TAKEDA. Springer-Verlag, pp. 193-207. ISBN 9780387229782, **2004**.

Conference papers

92. Chiasserini C.F., Garetto M., Leonardi E., *Impact of Clustering on the Performance of Network De-anonymization*, In: ACM COSN, Dublin, Ireland, November 2015.

93. Alfano G., Chiasserini C.F., Nordio A., Zhou S., *Performance Analysis of Dual-hop Beamforming for Multiuser MIMO Relay Networks with Interference*, In: IEEE APWC, Turin, Italy, September 2015.

94. Alfano G., Chiasserini C.F., Nordio A., Zhou S., *Ergodic Mutual Information and Its Fluctuation in Multi-Level MIMO Relay System*, In: IEEE APWC, Turin, Italy, September 2015.

95. Borgiattino C.; Chiasserini C.F.; Malandrino F.; Sereno M., *Advertisement Delivery and Display in Vehicular Networks*, In: IEEE VTC-Fall, Boston, MA, September 2015.

96. Alfano G., Chiasserini C.F., Nordio A., Zhou S*., A Unifying Analysis of Error Exponents for MIMO Channels with Application to Multiple-scattering*, In: IEEE ISWCS, Brussels, Belgium, August 2015.

97. Badawy A., Khattab T., Elfouly T.M., C.-F. Chiasserini, Mohamed A. Trinchero D., *Channel Secondary Random Process for Robust Secret Key Generation*, In: IWCMC, in Dubrovnik, Croatia, August 2015.

98. Chiasserini C.F., Garetto M., Leonardi E., *De-anonymizing Scale-free Social Networks by Percolation Graph Matching*, In: IEEE INFOCOM, Hong Kong, May 2015.

99. Casetti C.; Chiasserini C.F.; Curto Pelle L.; Del Valle C.; Duan Y.; Giaccone P., *Content-centric Routing in Wi-Fi Direct Multi-group Networks*, *In: IEEE WoWMoM, Boston, MA, June 2015.*

100. Casetti C.; Chiasserini C.F.; Curto Pelle L.; Del Valle C.; Duan Y.; Giaccone P., *A Demonstration for Content Delivery on Wi-Fi Direct Enabled Devices*, In: IEEE WoWMoM Demo Session, Boston, MA, June 2015.

101. Borgiattino C., Casetti C., Chiasserini C.F., Malandrino F., *Efficient Area Formation for LTE Broadcasting*, In: IEEE SECON 2015, Seattle, WA, June 2015.

102. Jain S.; Borgiattino C.; Ren Y.; Gruteser M.; Chen Y.; Chiasserini C.-F., *LookUp: Enabling Pedestrian Safety Services via Shoe Sensing,* In: The 13th ACM International Conference on Mobile Systems, Applications, and Services (ACM MobiSys), Florence, Italy, May 2015.

103. Lateef H.Y., Chiasserini C.F., Elbatt T., Mohamed A., Guizani M., *Towards Energy Efficient Relay Placement and Load Balancing in Future Wireless Networks.* In: IEEE PIMRC, Washington, D.C. (USA), September 2014.

104. Malandrino F., Casetti C., Chiasserini C.F., Zhou S., *Real-Time Scheduling for Content Broadcasting in LTE.* In: IEEE MASCOTS 2014, Paris (France), September 2014.

105. Duan Y., Borgiattino C., Casetti C., Chiasserini C.F., Giaccone P., Malabocchia F., Ricca M., Turolla M., *Wi-Fi Direct Multi-group Data Dissemination for Public Safety.* In: 2014 World Telecommunications Congress, Berlin (Germany), June 2014.

106. Malandrino F., Casetti C., Chiasserini C.F. , *Half a Mile, Half a World: Locality Patterns of International Calls in Milan.* In: EuCNC 2014, Bologna (Italy), June 2014.

107. Dovis F., Chiasserini C.F., Musumeci L., Borgiattino C., *Context-aware Peer-to-Peer and Cooperative Positioning.* In: ICL-GNSS 2014, Helsinki (Finland), June 2014.

108. Malandrino F., Casetti C., Chiasserini C.F., *Fast Resource Scheduling in HetNets with D2D Support*, accepted to IEEE INFOCOM 2014, Toronto (Canada), Apr. 2014.

109. Malandrino F., Casetti C., Chiasserini C.F., Limani Z., *Uplink and Downlink Resource Allocation in D2D-Enabled Heterogeneous Networks.* In: WCNC'14 - FutureHetNets, Istambul (Turkey), April 2014.

110. Malandrino F., Casetti C., Chiasserini C.F., *LTE Offloading: When 3GPP Policies Are Just Enough.* In: IEEE/IFIP WONS 2014, Obergurgl (Austria), April 2014.

111. Zhou S., Nordio A., Chiasserini C.F., *Estimation Quality of High-dimensional Fields in Wireless Sensor Networks.* In: SPACOMM 2014, Nice (France), February 2014.

112. Vesco A., Scopigno R., Casetti C., Chiasserini C.F., *Investigating the Effectiveness of Decentralized Congestion Control in Vehicular Networks.* Accepted In: IEEE GLOBECOM 2013, Workshop on Vehicular Network Evolution, Atlanta (USA), December 2013.

113. Malandrino F., Casetti C., Chiasserini C.F., *The Role of ITS in Charging Opportunities for EVs.* In: 16th International IEEE Conference on Intelligent Transport Systems (IEEE ITSC 2013), The Hague (The Netherlands), October 2013.

114. Chiasserini C.F., Gribaudo M., Manini D., *Traffic Offloading/Onloading in Multi-RAT Cellular Networks.* In: IEEE/IFIP Wireless Days 2013, Valencia (Spain), November 2013.

115. Forutan V., Nordio A., Chiasserini C.F., *Cooperative Communication Strategies for Cascaded Sources/Relays in Wireless Networks.* In: Global Information Infrastructure and Networking Symposium 2013, Trento (Italy), October 2013.

116. Fogue M., Martinez F.J., Garrido P., Fiore M., Chiasserini C.F., Casetti C., Cano J.-C., Calafate C.T., Manzoni P., *On the Use of a CooperativeNeighbor Position Verification Scheme to Secure Warning Message Disseminationin VANETs.* In: 38th Annual IEEE Conference on Local Computer Networks (IEEE LCN 2013), Sydney (Australia), October 2013.

117. Alfano G., Zhou S., Chiasserini C.-F., Nordio A. , *Information densities for block-fading MIMO channels.* In: IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications (IEEE APWC 2013), Turin (Italy), September 2013.

118. Nordio A., Tarable A., Chiasserini C.-F. , *Achievable Rate and Power Consumption in Source/Relay Wireless Networks.* In: IEEE APWC - EMS, Turin (Italy), September 2013.

119. Malandrino F., Casetti C., Chiasserini C.F. , *A fix-and-relax model for heterogeneous LTE-based networks.* In: The IEEE 21ST INTERNATIONAL SYMPOSIUM ON MODELING, ANALYSIS AND SIMULATION OF COMPUTER AND TELECOMMUNICATION SYSTEMS (MASCOTS 2013), San Francisco (USA), August 2013.

120. Alfano G., Chiasserini C.F., Nordio A., Zhou S. , *Characterization of output signals for MIMO block-fading channels with imperfect CSI.* In: The Tenth International Symposium on Wireless Communication Systems (ISWCS 2013), Ilmenau (Germany), August 2013.

121. Alfano G., Chiasserini C.F., Nordio A., Zhou S., *Output Statistics of MIMO Channels with General Input Distribution.* In: IEEE International Symposium on Information Theory (ISIT 2013), Istanbul (Turkey), July 2013. pp. 829-833.

122. Gribaudo M., Manini D., Chiasserini C.-F. , *Studying Mobile Internet Technologies with Agent Based Mean-Field Models.* In: Twentieth International Conference on Analytical & Stochastic Modelling Techniques & Applications (ASMTA) 2013, Ghent (Belgium), July 2013.

123. Alfano G., Chiasserini C.F., Nordio A., Zhou S. , *Toward an efficiently computable formula for the output statistics of MIMO block-fading channels.* In: ISIT 2013, Istanbul (Turkey), July 2013.

124. Malandrino F., Casetti C., Chiasserini C.F., Reineri M. , *Where to Get a Charged EV Battery: A Route to Follow as if It Were Your Own Advice.* In: IEEE WiVeC 2013, Dresden (Germany), June 2013.

125. Altarelli F., Braunstein A., Chiasserini C.F., Dall'Asta L., Giaccone P., Leonardi E., Zecchina R., *Stochastic Optimization of Service Provision with Selfish Users.* In: IEEE ICC'13 Workshop NETSTAT, Budapest (Hungary), June 2013.

126. Rossi C., Borgiattino C., Casetti C., Chiasserini C.-F. , *Energy-efficient Wi-Fi Gateways for Federated Residential Networks.* In: IEEE WoWMoM 2013 Demo Session, Madrid (Spain), June 2013.

127. Malandrino F., Casetti C., Chiasserini C.-F., Fiore M., Yokoyama R.S., Borgiattino C. , *A-VIP: Anonymous Verification and Inference of Positions in Vehicular Networks.* In: IEEE INFOCOM MiniConference, Torino (Italy), April 2013.

128. Fiore M., Nordio A., Chiasserini C.F., *Investigating the Accuracy of Mobile Urban Sensing.* In: IEEE/IFIP WONS 2013, Banff (Canada), March 2013. pp. 1-4.

129. Malandrino F., Casetti C., Chiasserini C.F., *The Role of ITS in Charging Opportunities for EVs.* In: 16th International IEEE Conference on Intelligent Transport Systems (IEEE ITSC 2013), The Hague (The Netherlands), October 2013. pp. 1953-1958.

130. Zhou S., Alfano G., Chiasserini C.F., Nordio A., *Characterization of output signals for MIMO block-fading channels with imperfect CSI.* In: The Tenth International Symposium on Wireless Communication Systems (ISWCS 2013), Ilmenau (Germany), August 2013. pp. 1-4.

131. F. Malandrino, C. Casetti, C.F. Chiasserini, *A Game-Theoretic Approach to EV Driver Assistance Through ITS.* In: 2012. IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Sydney (Australia), September 2012. 2541-2546.

132. Malandrino F., Casetti C., Chiasserini C.-F., Fiore M., *Offloading Cellular Networks through ITS Content Download.* In: 9th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), Seoul (Korea), June 18-21, 2012. pp. 263-271.

133. Rossi C., Casetti C., Chiasserini C.-F., *Energy-efficient Wireless Resource Sharing for Federated Residential Networks.* In: IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), San Francisco (USA), June 25-28, 2012. pp. 1-3.

134. Borgiattino C., Malandrino F., Casetti C., Chiasserini C.F., *Modelling Realistic Vehicle Traffic Flows.* In: The First International Workshop on Vehicular Communications, Sensing, and Computing (VCSC 2012), Seoul (Korea), June 2012. pp. 10-11.

135. Scopigno R., Cozzetti, H.A., Brofferio A., Casetti C., Chiasserini C.-F., *MQ-Mapcast: a Map-Aware Protocol for Optimized Forwarding in Urban VANETs.* In: International Conference on Connected Vehicles & Expo (ICCVE 2012), Beijing (China), December 2012. pp. 91-98.

136. Borgiattino C., Casetti C., Chiasserini C.F., Ghittino A., Di Maio N., Reineri M., *Experiences with UHF Bands for Content Downloading in Vehicular Networks.* In: 2012 IEEE Wireless Communications and Networking Conference (WCNC 2012), Parigi (Francia), 1-4 Aprile 2012. pp. 333-337.

137. F. Malandrino, C. Casetti, C.F. Chiasserini, C. Sommer, F. Dressler, *Content Downloading in Vehicular Networks: Bringing Parked Cars Into the Picture.* In: 2012 IEEE 23rd International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Sydney (Australia), September 2012. pp. 1534-1539.

138. Nordio A., Forutan V., Chiasserini C.-F., *Traffic Relaying in Multi-hop Wireless Networks.* In: 2012 8th International Wireless Communications and Mobile Computing Conference (IWCMC), Cyprus, August 27-31, 2012. pp. 1203-1208.

139. F. Angius, M. Reineri, C.-F. Chiasserini, M. Gerla, G. Pau, *Towards a Realistic Optimization of Urban Traffic Flows.* In: 15th International IEEE Conference on Intelligent Transportation Systems (ITSC), Anchorage (USA), September 2012. pp. 1661-1668.

140. Rossi C., Casetti C., Chiasserini C.-F., *Bandwidth Monitoring in Multi-rate 802.11 WLANs with Elastic Traffic Awareness.* In: Global Telecommunications Conference (GLOBECOM 2011), 2011 IEEE, Houston (USA), December 5-9, 2011. pp. 1-5.

141. Rossi C., Casetti C., Rondini G., Chiasserini C.F., *A New Metric for Admission Control in Multi-Rate 802.11 WLANs.* In: Wireless On-Demand Network Systems and Services (WONS), 2011 Eighth International Conference on, Bardonecchia (Italy), February 2011. pp. 150-153.

142. Garelli L., Casetti C., Chiasserini C.-F., Fiore M., *MobSampling: V2V Communication for Traffic Density Estimation.* In: Vehicular Technology Conference (VTC Spring), 2011 IEEE 73rd, Budapest (Hungary), 15 May 2011. pp. 1-5.

143. Rossi C., Casetti C., Chiasserini C.F., *Wireless Resource Sharing for Residential Access Networks.* In: GTTI 2011 Meeting, Messina (Italy), June 2011.

144. Fiore M., Casetti C., Chiasserini C.F., Papadimitratos P., *Secure Neighbor Position Discovery in Vehicular Networks.* In: Ad Hoc Networking Workshop (Med-Hoc-Net), 2011 The 10th IFIP Annual Mediterranean, Favignana, Italy, June 2011. pp. 71-78.

145. Malandrino F., Casetti C., Chiasserini C.-F., Fiore M., *Content Downloading in Vehicular Networks: What Really Matters.* In: INFOCOM, 2011 Proceedings IEEE, Shanghai (China), April 2011. pp. 426-430.

146. Reineri M., Rubino R., Casetti C., Chiasserini C.-F., *Experimental Performance Assessment of WMN Routing Protocols with Mobile Nodes.* In: Wireless Communications and Mobile Computing Conference (IWCMC), 2011 7th International, Istanbul, Turkey, July 2011. pp. 1010-1015.

147. D. Borsetti; M. Fiore; C. Casetti; Chiasserini C.F.; J.M. Barcelo Ordinas, *Virtual Data Mules for Data Collection in Road-side Sensor Networks.* In: ACM MobiOpp 2010, Pisa (Italy), February 2010. pp. 32-40.

148. Malandrino F., Casetti C., Chiasserini C.-F., *Content Discovery and Caching in Mobile Networks.* In: Personal Indoor and Mobile Radio Communications (PIMRC), 2010 IEEE 21st International Symposium on, Istanbul, Turkey, 26-29 September 2010. pp. 1859-1864.

149. Malandrino F., Casetti C., Chiasserini C.-F., *Discovery and Provision of Content in Mobile Networks with Infrastructure Support.* In: Wireless Days (WD), 2010 IFIP, Venice (Italy), October. pp. 1-5.

150. C.A. La; P. Michiardi; C. Casetti; Chiasserini C.F.; M. Fiore, *A Lightweight Distributed Solution to Content Replication in Mobile Networks.* In: Wireless Communications and Networking Conference (WCNC), 2010 IEEE, Sydney (Australia), April, 2010. pp. 1-6.

151. M. Garetto; A. Nordio; Chiasserini C.F.; E. Leonardi, *Information-theoretic Capacity of Clustered Random Networks.* In: Information Theory Proceedings (ISIT), 2010 IEEE International Symposium on, Austin (USA), June 2010. pp. 1698-1702.

152. Malandrino F.; Casetti C; Chiasserini C.-F, *A Game-theoretic Approach to Cooperative Content Discovery in Mobile Networks.* In: INFOCOM IEEE Conference on Computer Communications Workshop, 2010, San Diego (USA), March 2010. pp. 1-2.

153. Masri A.; Carla-Fabiana Chiasserini; Claudio Casetti; Alberto Perotti, *Common Control Channel Allocation in Cognitive Radio Networks through UWB Multi-hop Communications.* In: The first Nordic Workshop on Cross-Layer Optimization in Wireless Networks, Levi, Finland, Levi, Finland, 7-9/4/2010. pp. 1-6.

154. Masri A.; Chiasserini C.-F., Perotti A., *Control Information Exchange through UWB in Cognitive Radio Networks.* In: 2010 5th IEEE International Symposium on Wireless Pervasive Computing (ISWPC), Modena (Italy), 5-7/5/2010. pp. 110-115.

155. Giuseppa Alfano; Chiasserini C.F.; Alessandro Nordio; Antonia Tulino, *Asymptotics of Multi-fold Vandermonde Matrices with Applications to Communications and Radar Problems.* In: IEEE International Conference on Communications (ICC), Dresden, Germany, 14-18 June 2009. pp. 1-5.

156. Campolo C; Casetti C.; Chiasserini C.-F; Molinaro A., *An 802.11-based MAC Protocol for Reliable Multicast in Multihop Networks.* In: IEEE 69th Vehicular Technology Conference, (VTC Spring), Barcellona (Spagna), May 2009. pp. 1-5.

157. Trullols O; Fiore M; Casetti C.; Chiasserini C.-F; Barcelo J, *A Max Coverage Formulation for Information Dissemination in Vehicular Networks.* In: IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WIMOB), Marrakech (Marocco), October 2009. pp. 154-160.

158. Casetti C.; Chiasserini C.-F; Fiore M; La C.-A; Michiardi P, *P2P Cache-and-Forward Mechanisms for Mobile Ad Hoc Networks.* In: IEEE Symposium on Computers and Communications (ISCC), Sousse (Tunisia), Luglio 2009, pp. 386-392.

159. Fiore M; Mininni F; Casetti C.; Chiasserini C.-F, *To Cache or Not To Cache?* In: IEEE INFOCOM, Rio de Janeiro (Brasile), May 2009, pp. 235 -243.

160. Malandrino F; Casetti C.; Chiasserini C.-F, *Pub/Sub Content Sharing for Mobile Networks.* In: MobiHoc '09 Proceedings of the tenth ACM international symposium on Mobile ad hoc networking and computing, New Orleans (USA), May 2009. pp. 351-352.

161. Annese S; Casetti C.; Chiasserini C.-F; Cipollone P; Ghittino A; Reineri M, *Assessing Mobility Support in Mesh Networks.* In: The Fourth ACM International Workshop on Wireless Network Testbeds, Experimental Evaluation and Char, Pechino, Cina, September 2009. pp. 19-26.

162. Tarapiah S; Casetti C.; Chiasserini C.-F, *Network Coding in Ad Hoc Networks: a Realistic Simulation Study.* In: INFOCOM Workshops 2009, IEEE, Rio de Janeiro (Brasile), Aprile 2009. pp. 1-2.

163. Scicchitano A; Bianco A.; Chiasserini C.F; Leonardi E., *Bandwidth Allocation for Video Streaming in WiMax Networks.* In: Vehicular Technology Conference, 2009. VTC Spring 2009. IEEE 69th, Barcelona (Spain), April 2009. pp. 1-5.

164. Pietro Michiardi; Chiasserini C.F.; Claudio Casetti; Chi-Anh La; Marco Fiore, *On a Selfish Caching Game.* In: Twenty-Eighth Annual ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing, Calgary (Canada), August 10-12, 2009. pp. 284-285.

165. D. Borsetti; M. Fiore; C. Casetti; Chiasserini C.F., *When mobile services go local.* In: ACM MSWIM, Tenerife (Spain), October 2009. pp. 235-244.

166. M. Gribaudo; D. Manini; Chiasserini C.F.; A. Nordio, *Analysis of IEEE 802.15.4 Sensor Networks for Event Detection.* In: Global Telecommunications Conference, IEEE GLOBECOM, Honolulu (USA), December 2009. pp. 1-6.

167. Alessandro Nordio; Chiasserini C.F.; Emanuele Viterbo, *Linear Field Reconstruction from Jittered Sampling.* In: 8th International Conference on Sampling Theory and Applications (SampTA), Marseille (France), May 2009.

168. Claudia Campolo; Claudio Casetti; Carla-Fabiana Chiasserini; Tarapiah S.M., *Performance of Network Coding for Ad Hoc Networks in Realistic Simulation Scenarios.* In: International Conference on Telecommunications, (ICT), Marrakech (Morocco), May 2009. pp. 31-36.

169. Reineri M.; Casetti C; Chiasserini C.-F, *Routing protocols for mesh networks with mobility support.* In: 6th International Symposium on Wireless Communication Systems, (ISWCS), Siena (Italy), Settembre 2009. pp. 71-75.

170. Sridhar Kyathsandra N.R.; Casetti C.; Chiasserini C.F., *A localized and distributed channel assignment scheme for wireless mesh networks.* In: Local Computer Networks, 2009. LCN 2009. IEEE 34th Conference on, Zurich (Switzerland), 20-23 Oct. 2009. pp. 45-52.

171. Khayatzadeh Mahani A; Naderi M; Casetti C.; Chiasserini C, *Performance Evaluation of the MESH-DQDC Protocol.* In: IEEE CCCM 2008, Guangzhou, China. pp. 1-5.

172. Soldo F; Casetti C.; Chiasserini C; Chaparro P, *Streaming Media Distribution in VANETs.* In: IEEE Globecom 2008, New Orleans, LA, USA, November 2008. pp. 1-6.

173. Sergio Palazzo; C.F. Chiasserini; Roberto Verdone; Mathias Boc; Alessandro Leonardi, *Opportunistic Networking as a Paradigm to Exploit Mobility.* In: 4th International ICST Mobile Multimedia Communications Conference, Oulu, Finland, July 2008. pp. 1-7.

174. Nordio A.; Alfano G; Chiasserini C.-F, *Linear Field Reconstruction in Sensor Networks with Noise and Correlated Signal Spectrum.* In: INGRID 2008, Lacco Ameno, Ischia, Italy, April 9-11 2008. pp. 459-471.

175. Nordio A.; Muscariello A; Chiasserini C.-F, *Signal Compression and Reconstruction in Clustered Sensor Networks.* In: Communications, 2008. ICC '08. IEEE International Conference on, Beijing (China), 19-23 May 2008. pp. 925-929.

176. Nordio A.; Chiasserini C-F; Viterbo E., *On quasi-equally spaced sampling in wireless sensor networks.* In: Personal, Indoor and Mobile Radio Communications. PIMRC. IEEE 19th International Symposium on, Cannes (France), September 2008. pp. 1-5.

177. Nordio A.; Chiasserini C.-F; Viterbo E, *Signal reconstruction in multidimensional sensor fields.* In: Communications, 2008 IEEE International Zurich Seminar on, Zurich (Switzeland), 12-14 March 2008. pp. 56-59.

178. A. Khayatzadeh Mahani; M. Naderi; C. Casetti; Chiasserini C.F., *Enhancing Channel Utilization in Mesh Networks.* In: IEEE MILCOM 2007, ORLANDO, FL, Oct. 2007.

179. M. Garetto; M. Gribaudo; Chiasserini C.F.; E. Leonardi, *A Distributed Sensor Relocation Scheme for Environmental Control.* In: Mobile Adhoc and Sensor Systems, 2007. MASS 2007. IEEE Internatonal Conference on, Pisa, Italy, Oct. 2007.

180. Fiore M.; Claudio Casetti; Carla-Fabiana Chiasserini, *Efficient Retrieval of User Contents in MANETs.* In: INFOCOM 2007. 26th IEEE International Conference on Computer Communications. IEEE, Anchorage (USA), May 6-12 2007. pp. 10-18.

181. Fiore M; Casetti C.; Chiasserini C.-F, *Relay quality awareness in mesh networks routing.* In: Tyrrhenian International Workshop on Digital Communication, Ischia, Italia, 9-12 September 2007. pp. 111-126.

182. Nordio A.; Chiasserini C.-F; Viterbo E, *The Impact of Quasi-equally Spaced Sensor Layouts on Field Reconstruction.* In: Information Processing in Sensor Networks, 2007. IPSN 2007. 6th International Symposium on, Cambridge (USA), 25-25 Aprile 2007. pp. 274-282.

183. A. Nordio; Chiasserini C.F.; E. Viterbo, *Quality of Field Reconstruction in Sensor Networks.* In: INFOCOM 2007. 26th IEEE International Conference on Computer Communications. IEEE, ANCHORAGE (USA), 6-12 May 2007. pp. 2406-2410.

184. Carofiglio G; Chiasserini C.F.; Garetto M; Leonardi E, *Analysis of Route Stability in MANETs.* In: Second EuroNGI Workshop on New Trends in Modelling, Quantitative Methods and Measurements, 2006.

185. Chiasserini C.F.; Gaeta R.; Garetto M.; Gribaudo M.; Sereno M., *Efficient Broadcasting of Safety Messages in Multihop Vehicular Networks.* In: Parallel and Distributed Processing Symposium, 2006. IPDPS 2006. 20th International, Rhodes Island (USA), April 2006.

186. C. Casetti; Chiasserini C.F.; R. Fracchia; M. Meo, *AISLE: Autonomic Interface SeLEction for Wireless Users.* In: IEEE WOWMOM, NIAGARA-FALLS, BUFFALO, NY, June 2006.

187. Fiore M.; Alessandro Leonardi; Antonio Matera; Claudio Casetti; Carla-Fabiana Chiasserini; Sergio Palazzo, *Information Delivery with Geographical Forwarding in Vehicular Wireless Networks.* In: NEWCOM-ACoRN Joint Workshop, Vienna, Austria, September 20-22, 2006.

188. Nordio A.; Chiasserini C.-F; Viterbo E, *On Data Acquisition and Field Reconstruction in Wireless Sensor Networks.* In: Tyrrhenian International Workshop on Digital Communications, Sorrento (Italy), July 2005. pp. 161-171.

189. C. Casetti; C.-F. Chiasserini; M. Fiore; M. Garetto, *Notes on the inefficiency of 802.11e HCCA.* In: IEEE 62nd Vehicular Technology Conference, 2005. VTC-2005-Fall, Dallas, TX (USA), Sep. 25-28, 2005. 2513 -2517.

190. Fracchia R.; Casetti C.; Chiasserini C.-F.; Meo M., *A WiSE Extension of SCTP for Wireless Networks.* In: IEEE ICC, May 2005.

191. Casetti C.; Chiasserini C.-F.; Conte A.; Dauchy P.; Veglio M., *A Call Admission Control Algorithm for 802.11e EDCA-enabled WLANs.* In: IEEE VTC-Fall, 2005.

192. Baiamonte V.; Casetti C.; Chiasserini C.-F., *Distributed-Queue Access for Wireless Ad Hoc Networks.* In: IEEE VTC-Spring 2005, June 2005.

193. Casetti C.; Chiasserini C.-F.; Previtera L., *Fair Relaying and Cooperation in Multi-rate 802.11 Networks.* In: IEEE VTC-Spring 2005, June 2005.

194. Garetto M; Chiasserini C.F., *Performance Analysis of the 802.11 Distributed Coordination Function under Sporadic Traffic.* In: Networking 2005, Waterloo Ontario Canada, May 2005. pp. 23-32.

195. Gribaudo M.; Chiasserini C.F.; Gaeta R.; Garetto M.; Manini D.; Sereno M., *A Spatial Fluid-based Framework to Analyze Large-scale Wireless Sensor Networks.* In: Dependable Systems and Networks (DSN). Proceedings. International Conference on, Yokohama (Japan), June 2005. pp. 694-703.

196. Fiore M.; Claudio Casetti; Carla-Fabiana Chiasserini, *On-demand Content Delivery in Vehicular Wireless Networks.* In: IEEE/ACM MSWIM, Montreal (Canada), October 2005. pp. 87-94.

197. Casetti C.; Chiasserini C.F.; Merello L.; Olmo G., *Supporting multimedia traffic in 802.11e WLANs.* In: Vehicular Technology Conference, VTC 2005-Spring, 30 May-1 June 2005. pp. 2340-2344.

198. Wang K; Chiasserini C.F.; Proakis J.G; Rao R.R, *Distributed Fair Scheduling and Power Control in Wireless Ad Hoc Networks.* In: Global Telecommunications Conference, 2004. GLOBECOM '04. IEEE, Dallas (USA), November 2004. pp. 3557-3562.

199. Nuggehalli P; Srinivasan V; Chiasserini C.F., *Multi-Channel Wireless Personal Area Networks.* In: Workshop on Modeling and Optimization in Mobile Ad Hoc and Wireless Networks (WiOpt'04), Cambridge (UK), March 2004.

200. Kiss Kallo' C; Chiasserini C.F.; Battiti R; Ajmone Marsan M, *Reducing the Number of Hops between Communication Peers in a Bluetooth Scatternet.* In: Wireless Communications and Networking Conference, 2004. WCNC. 2004 IEEE, Atlanta (USA), July 2004. pp. 207-212.

201. Alfieri A; Bianco A.; Brandimarte P; Chiasserini C.F, *Exploiting sensor spatial redundancy to improve network lifetime.* In: IEEE GLOBECOM, Dallas, TX, USA, November 2004. pp. 3170-3176.

202. Baiamonte V; Chiasserini C.F., *An Energy-efficient MAC layer Scheme for 802.11-based WLANs.* In: Performance, Computing, and Communications, 2004 IEEE International Conference on, Phoenix (USA), February, 2004. pp. 689-694.

203. Annese S.; Casetti C.; Chiasserini C.-F.; Ghittino A., *Host Qs: MAC-independent Traffic Differentiation in 802.11-based WLANs.* In: 38th Hawaii International Conference on System Science (HICSS-38), 2004.

204. Casetti C.; Chiasserini C.F., *Improving fairness and throughput for voice fraffic in 802.11e EDCA.* In: IEEE PIMRC, 2004.

205. Chiasserini C.F.; M. Garetto, *Modeling the Performance of Wireless Sensor Networks.* In: INFOCOM 2004. Twenty-third AnnualJoint Conference of the IEEE Computer and Communications Societies, Hong Kong (Cina), 2004. pp. 220-231.

206. Chiasserini C.F.; Meo M, *An Innovative Routing Scheme for 802.11-based Multi-hop Networks.* In: Vehicular Technology Conference, 2004. VTC2004-Fall. 2004 IEEE 60th, Los Angeles (USA), September 2004. pp. 2804-2807.

207. Bottigliengo M.; Casetti C.; Chiasserini C.-F.; Meo M., *Short-term Fairness for TCP Flows in 802.11b WLANs.* In: IEEE INFOCOM 2004, March 2004.

208. V. Srinivasan; P. Nuggehalli; Chiasserini C.F.; R.R. Rao, *Cooperation in Wireless Ad Hoc Networks.* In: IEEE INFOCOM, San Francisco (USA), March-April 2003. pp. 808-817.

209. K. Wang; Chiasserini C.F.; J.G. Proakis; R.R. Rao, *A Distributed Joint Scheduling and Power Control Algorithm for Multicasting in Wireless Ad Hoc Networks.* In: IEEE ICC, May 2003. pp. 725-731.

210. P. Nuggehalli; V. Srinivasan; Chiasserini C.F.; R.R. Rao, *Energy-Efficient Caching Strategies in Ad Hoc Wireless Networks.* In: ACM MobiHoc, Giugno. pp. 25-34, 2003.

211. Wang K; Chiasserini C.F.; Proakis J; Rao R.R, *Joint Scheduling and Power Control for Multicasting in Wireless Ad Hoc Networks.* In: IEEE VTC-Fall '03, October 2003. pp. 2915-2920.

212. Roveri A., Chiasserini C.-F., Femminella M., Melodia M., Morabito G., Rossi M., Tinnirello I., *The RAMON module: Architecture framework and performance results.* In: QoS-IP

2003 Proceedings of the Second International Workshop on Quality of Service in Multiservice IP Networks, Milan (Italy), February 24–26, 2003. pp. 471-484.

213. Baiamonte V; Chiasserini C.F., *Investigating MAC-layer Schemes to Promote Doze Mode in 802.11-based WLANs.* In: IEEE VTC-Fall '03, 2003. pp. 1568-1572.

214. E. Masala; C.F. Chiasserini; M. Meo; De Martin J.C., *Real-Time Transmission of H.264 Video over 802.11-Based Wireless Ad Hoc Networks.* In: Workshop on DSP in Mobile and Vehicular Systems, Nagoya, Japan, April 2003.

215. Bottigliengo M.; Casetti C.; Chiasserini C.-F.; Meo M., *Smart Traffic Scheduling in 802.11 WLANs with Access Point.* In: IEEE VTC 2003-Fall, October 2003.

216. Chiasserini C; Ajmone Marsan M; Baralis E; Garza P., *Towards Feasible Topology Formation Algorithms for Bluetooth-based WPANS.* In: HICSS-36, Big Island of Hawaii, USA, January, 2003. pp. 313-322.

217. Chiasserini C.F.; Rao R.R, *Coexistence Mechanisms for Interference Mitigation between IEEE 802.11 WLANs and Bluetooth.* In: IEEE INFOCOM, 2002. pp. 590-598.

218. Srinivasan V; Nuggehalli P; Chiasserini C.F.; Rao R.R, *Energy Efficiency of Ad Hoc Wireless Networks with Selfish Users.* In: EW2002 (European Wireless conference), 2002.

219. Srinivasan V; Nuggehalli P; Rao R.R; Chiasserini C.F., *Energy efficiency and fairness.in cooperative wireless ad hoc networks.* In: IEEE Information Theory Workshop, Oct. 2002. pp. 33-36.

220. Chiasserini C.F.; Nuggehalli P; Srinivasan V; Rao R.R, *Energy-Efficient Communication Protocols.* In: 39th IEEE Design Automation Conference (DAC'02), 2002. pp. 824-829.

221. Chiasserini C.F.; Rao R.R, *On the Concept of Distributed Digital Signal Processing in Wireless Sensor Networks.* In: IEEE MILCOM 2002, Oct. 2002. pp. 260-264.

222. Srinivasan V; Chiasserini C.F.; Nuggehalli P; Rao R.R, *Optimal Rate Allocation and Traffic Splits for Energy Efficient Routing in Ad Hoc Networks.* In: IEEE INFOCOM, 2002. pp. 950-957.

223. Wang K; Chiasserini C.F.; Proakis J.G; Rao R.R, *RISE: Reducing Interference and Saving Energy through Multicasting in Ad Hoc Wireless Networks.* In: IEEE MILCOM 2002, Oct. 2002. pp. 826-832.

224. Ajmone Marsan M; Chiasserini C.F., *A Simple Incremental Algorithm for Scatternet Topology Formation.* In: 17th IEEE Annual Computer Communications Workshop, 2002.

225. Chiasserini C.F.; Magli E, *Energy Consumption and Image Quality in Wireless Video-Surveillance Networks.* In: The 13th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Sept. 2002. pp. 2357-2361.

226. Chiasserini C.F.; Meo M; Tarfanelli D; Visconti D, *A Study of Video Services in a Wireless Environment.* In: The 4th IEEE Conference on Mobile and Wireless Communications Networks (MWCN), 2002.

227. C.F. Chiasserini; M. Garetto; Meo M., *Improving TCP over Wireless by Selectively Protecting Packet Transmissions.* In: Fourth IEEE Conference on Mobile and Wireless Communications Networks, September 2002. pp. 316-319.

228. M. Ajmone Marsan; Chiasserini C.F.; A. Nucci; G. Carello; L. De Giovanni, *Optimizing the Topology of Bluetooth Wireless Personal Area Networks.* In: IEEE INFOCOM 2002, June 2002.

229. Chiasserini C.F.; Chlamtac I; Monti P; Nucci A, *Energy Efficient Design of Wireless Ad Hoc Networks.* In: Proc. of Networking 2002, 2002. pp. 376-386.

230. Panigrahi D; Chiasserini C.F.; Dey S; Rao R.R; Raghunathan A; Lahiri K, *Battery Life Estimation of Mobile Embedded Systems.* In: IEEE VLSI Design 2001, Bangalore, Jan. 2001. pp. 57-63.

231. Chiasserini C.F.; Rao R.R, *Combining Paging with Dynamic Power Management.* In: IEEE INFOCOM 2001, Anchorage, AK, Apr 2001. pp. 996-1004.

232. Chiasserini C.F.; Rao R.R, *A Comparison between Collaborative and Non-Collaborative Coexistence Mechanisms for Interference Mitigation in ISM Bands.* In: IEEE Vehicular Technology Conference (VTC). pp. 1-5, 2001.

233. Ajmone Marsan M; Chiasserini C.F.; Nucci A, *Optimal Topology Design in Wireless Personal Area Networks.* In: 3rd Generation Infrastructure and Services (3GIS), 2001.

234. Chiasserini C.F.; Meo M., *Energy Efficiency of Radio Link Protocols in 3GPP Systems.* In: IEEE Vehicular Technology Conference (VTC), Rhodes, 6-9 May 2001. pp. 2515-2519.

235. Chiasserini C.F.; Meo M., *Improving TCP over Wireless through Adaptive Link Layer Setting.* In: IEEE GLOBECOM, Symposium on Internet Performance (IPS 2001), 22 November 2001. pp. 1766-1770.

236. Chiasserini C.F.; Meo M., *Modeling Interactions between Link Layer and Transport Layer in Wireless Networks.* In: IEEE PIMRC 2001, San Diego, CA, September 2001. pp. 73-77.

237. Viterbo E.; C.F. Chiasserini, *Dynamic Pricing for Connection-Oriented Services in Wireless networks.* In: 12th International Symposium on Personal, Indoor and Mobile Radio Communications, San Diego, CA, 30 September - 3 October, 2001. pp. 68-72.

238. Viterbo E.; C.F. Chiasserini, *Dynamic Pricing in Wireless networks.* In: International Symposium on Telecommunications, 1-3 September, 2001. pp. 385-388.

239. Acampora A.S; Chiasserini C.F.; Gholmieh R.A; Zorzi M, *Capacity of Broadband CDMA Wireless Local Loop Systems.* In: IEEE Wireless Communications and Networking Conference (WCNC), Chicago, IL, Sep. 2000. pp. 582-591.

240. Chiasserini C.F.; Rao R.R, *A Distributed Power Management Policy for Wireless Ad Hoc Networks.* In: IEEE Wireless Communications and Networking Conference (WCNC), Chicago, IL, Sep 2000. pp. 1209-1213.

241. Chiasserini C.F.; Rao R.R, *Energy Efficient Battery Management.* In: IEEE INFOCOM 2000, Tel Aviv, Israel, Mar. 2000. pp. 396-403.

242. Chiasserini C.F.; Rao R.R, *Performance of IEEE 802.11 WLANs in a Bluetooth Environment.* In: IEEE Wireless Communications and Networking Conference (WCNC) 2000, Chicago, IL, Sep 2000. pp. 94-99.

243. Chiasserini C.F.; Rao R.R, *Routing Protocols to Maximize Battery Efficiency.* In: IEEE Milcom 2000, Los Angeles, CA, Oct 2000. pp. 496-500.

244. Chiasserini C.F.; Rao R.R, *Stochastic Battery Discharge in Portable Communication Devices.* In: 15th Annual Battery Conference on Applications and Advances, Long Beach, CA, USA, Jan. 2000. pp. 27-32.

245. Chiasserini C.F.; Rao R.R, *A Model for Battery Pulsed Discharge with Recovery Effect.* In: WCNC'99, New Orleans, LA, Sept. 1999. pp. 636-639.

246. Chiasserini C.F.; Rao R.R, *Pulsed battery discharge in communication devices.* In: MobiCom'99, Seattle (USA), August 1999. pp. 88-95.

247. Chiasserini C.F.; Rao R.R, *A Traffic Control Scheme to Optimize the Battery Pulsed Discharge.* In: Milcom'99, Atlantic City (USA), Oct. 1999. pp. 1419-1423.

248. Chiasserini C.F.; Bianco A., *WAY: A Resource Allocation Scheme for Packet Switched Wireless Networks.* In: IEEE ICC'99, Vancouver (Canada), June 1999. pp. 296-299.

249. Ajmone Marsan M; Chiasserini C.F.; Fumagalli A, *Buffer Sharing at the Base Station for Seamless Handovers in Mobile ATM Networks.* In: 4th IEEE Symposium on Computers and Communications, Red Sea, July 1999. pp. 354-360.

250. Chiasserini C.F.; Franceschini D; Perino M, *An Optimised Technique of the Batch Method for the Statistical Analysis of Simulation Results.* In: 10th European Simulation Symposium Exhibition (ESS), 1998.

251. Ajmone Marsan M; Chiasserini C.F.; Fumagalli A, *Dimensioning Handover Buffers in Wireless ATM Networks with GSPN Models.* In: 19th International Conference on Application and Theory of Petri Nets, 1998.

252. Ajmone Marsan M; Bianco A; Casetti C; Chiasserini C.F.; Francini A; Lo Cigno R; Mellia M; Munafo' M; Castelli P, *Variable Time Scale Simulation of ATM Traffic Control Techniques.* In: 5th Polish Teletraffic Symposium, 1998.

253. Ajmone Marsan M; Chiasserini C.F.; Fumagalli A, *Optimal Dimensioning of Handover Buffers in Wireless ATM Networks.* In: IEEE 1998 International Conference on Universal Personal Communications (ICUPC'98), Florence (Italy), Oct. 1998. pp. 483-487.

254. Chiasserini C.F.; Lo Cigno R; Scarrone E, *Handovers in Wireless ATM: An In-Band Signaling Solution.* In: IEEE 1998 International Conference on Universal Personal Communications (ICUPC'98), Florence (Italy), Oct. 1998. pp. 775-779Chiasserini C.F; Lo Cigno R; Munafo' M., *On the Implementation of Mobility Services in CLASS: Architecture, Validation and Results.* In: Fifth IFIP Workshop on Performance Modelling and Evaluation of ATM Networks, Ilkley, U.K., 21st-23rd July, 1997.

255. Ajmone Marsan M; Chiasserini C.F; Fumagalli A; Lo Cigno R; Munafo' M., *Local and Global Handovers Based on In-Band Signaling in Wireless ATM Networks.* In: Workshop on Nomadic Computing Satellite of IPPS'97, Geneva, Switzerland, April 5, 1997.

256. Ajmone Marsan M.; Chiasserini C.F.; Fumagalli A.; Lo Cigno R.; Munafo' M., *Buffer Requirements for Loss-Free Handovers in Wireless ATM Networks.* In: IEEE ATM'97 Workshop, Lisboa (Portugal), May 26-28, 1997. pp. 416-424.

257. Ajmone Marsan M.; Bianco A.; Casetti C.; Chiasserini C.F.; Francini A.; Lo Cigno R.; Mellia M.; Munafo' M., *An Integrated Software Environment for the Simulation of ATM Networks.* In: SCSC'97, Summer Computer Simulation Conference, July 1997.