

BRIEF CURRICULUM VITAE - GIUSEPPE ARANITI

Dr. Giuseppe Araniti [S'03, M'05, SM'15] was born in Reggio Calabria, Italy in 1975. Since 2005, he is Assistant Professor of Telecommunications at D.I.E.E.S. Department of University "Mediterranea" of Reggio Calabria, Italy, where he is also member of the Laboratory for Advanced Researches into Telecommunication Systems (ARTS). From September 1999 to July 2000 he held a visiting research student position at the COMNETS Department – Aachen University of Technology, Rhein.- Westf. Techn. Hochschule (RWTH), Germany where he developed his argument in the field of Satellite Personal Communications. He received a "Laurea" degree in Electronic Engineering from the University "Mediterranea" of Reggio Calabria, Italy, in 2000 and then he was granted a Scholarship from the Regione Calabria - Italian Ministry of Education - to research in the field of Mobile Radio Telecommunications. He received the Ph.D in Electronic Engineering from the same University, in March 2004, after that he was a post-doctoral research fellow from 2004 to 2005.

Research Projects Involvement:

Dr. Giuseppe Araniti was involved in several Italian Research Programs of Relevant National Interest (PRIN): SALICE (Satellite-Assisted Localization and Communication systems for Emergency services), from October 2008 to September 2010; ICONA (Integration of Communication and Navigation services) from January 2006 to December 2007, SHINES (Satellite and HAP Integrated Networks and Services) from January 2003 to December 2004, CABIS (CDMA for Broadband mobile terrestrial-satellite Integrated Systems) from January 2001 to December 2002. He has been involved in many research and development projects funded by public and private companies/institutions. A short list of the main projects, which he participates/participated is following reported:

- Italian Ministry of Research MIUR - grant "P.O.N. Ricerca e Competitività 2007-2013": (i) DOMUS project; (ii) MC3-Care - Mobile Continuous Connected Comprehensive Care; (iii) TETRIS – Innovative Open Source Services over TETRA; (iv) FINGERIMBALL- Anti-counterfeiting technologies and materials, and nanotechnology applications for authentication and protection of agri-food excellence;
- Italian Ministry of Research - Italian Ministry of Economy - Calabria Regional Government grant: (i) INLOCO - Innovations in Coordinated Logistics; (ii) LOGICA - ICT Technologies for Logistics - Telecommunications Section, (iii) AUTOMA - AUTOMobile Logistic Management; (iv) ICT-Lab - Regional Laboratory on ICT;
- Italian Ministry of Research FAR 2004 grant : "Platform of Interoperability for Logistic and Transportation Systems- PILOT";
- CARICAL Foundation grant: Integration of DVB-RCS (Digital Video Broadcasting-Return Channel via Satellite) Satellite Segment into Next-generation Heterogeneous Terrestrial Platforms Participation to the research unit at the University of Reggio Calabria.

From 2011 to 2012 he was a scientific coordinator of the research project TECNE – (Interdisciplinary methods for the identification, development, and dissemination of artistic and cultural heritage) in Human, Economics and Social Sciences (D.D. n. 791 – 01.02), funded by the – Calabria Regional Government, Italy. Moreover, from 2010 he has been the scientific responsible of the research activities of the ARTS laboratory for several projects funded by public institutions.

Research Activity

Dr. Giuseppe Araniti is author of more than 100 scientific papers including international journals, conferences and book chapters. In particular, he wrote 37 journal papers (2 are editorial papers), 6 book chapters, and 64 conference papers. The papers has been developed in cooperation with members of the research staff at University "Mediterranea" of Reggio Calabria and, in the recent years, in cooperation with colleagues of other

Italian and foreign Universities, where, in some of them he was invited as visiting professor for teaching and research activities (some of them: Brunel University of London, UK; Beijing University of Posts and Telecommunications, China; Universitat Politècnica de Catalunya, Spain). He has organized Special Issues of International Journals and Magazines (such as, IEEE Aerospace and Electronic Systems Magazine, WILEY Transactions on Emerging Telecommunications Technologies), he has been Special Session Co-Chair of international conferences (such as, "Information and Communication Technologies supporting Health" in ISABEL'10 and "Enabling Internet of Things over 5G mobile networks" in CYCLONE'15). He is serving as TPC of many international conferences and workshops and as a reviewer for several international journals, conferences and PhD thesis. He develops a technology transfer activity with industries and he is co-founder of two SMEs operating in the ICT field (one of them is a University Spin-off). His major area of research includes Personal Communications Systems, Enhanced Wireless and Satellite Systems, Traffic and Radio Resource Management, Multicast and Broadcast Services, Device-to-Device communications; Machine type Communications; Vehicular to Vehicular communications, 4G/5G cellular networks. He was co-recipient of the best paper award from the 2009 International Conference on Advances in Satellite and Space Communications (SPACOMM 2009) and from the 2015 IEEE Int. Congress on Ultra Modern Telecommunications and Control Systems, (ICUMT 2015). In 2008-09 he was recipient of two Regional Grant for conducting research activity abroad. The research production has a satisfactory impact with respect to the specific research community: the main bibliometric indexes, total number of citations and Hirsh Index, are 294 and 9, respectively, in the SCOPUS database, and 455 and 10, respectively, in the Google Scholar Database. He is a member of the Italian Group of Telecommunications and Information Theory (GTTI) and the Italian Inter-University Consortium for the Telecommunications (CNIT). Since 2010, he is member of the ISI (Integrated Satellite Initiative) Technology Platform. Since 2014, he is member of NetWorld2020 and SatCom Work Group. Since 2003, he is IEEE member and since 2015 he has been elected to the grade of IEEE Senior Member.

Teaching Activity

Since 2003, **Dr. Giuseppe Araniti** is developing an intense teaching activity at the University "Mediterranea" of Reggio Calabria: currently he is teaching: (i) "Advanced Communications Techniques for 5G Wireless Networks" (3 ECTS) within the second-level degree course in Informatics and Telecommunication Engineering and Technology Engineering; (ii) "Mobile Radio Network" (6 ECTS) within the second-level degree course in Informatics and Telecommunication Engineering and Technology Engineering; (iii) "Wireless Systems Planning" (6 ECTS) within the first level degree course in Information Technology Engineering. He has been supervisor of more than 100 among Master and Bachelor Degree theses, supervisor of different Ph.D. students and the related theses and supervisors of many research fellows in the field of cellular communications systems.