## EUROPEAN CURRICULUM VITAE FORMAT



PERSONAL INFORMATION

PERSONAL INFORMATION	
Name	PROF. GIUSEPPE RUGGERI
Address	34, Via Leonardo Da Vinci, 98039, Taormina (ME), Italy
Telephone	+3909651693339
Fax	
E-mail	
Website	giuseppe.ruggeri@unirc.it
Nationality	Italian
Date of birth	02/12/1973
GENERAL RESEARCH INTERESTS	EDGE Computing, Software Defined Networks, Information Centric Networks, Internet of Things
BIBLIOMETRIC SUMMARY DATA	
<ul> <li>Total international publications</li> </ul>	[84] source scholar.google.com
Total citations	[1710] source scholar.google.com
<ul> <li>Total cited paper</li> <li>H-index</li> </ul>	[ 84] source scholar.google.com [23 ] source scholar.google.com
EDUCATION AND TRAINING	
• Dates (1998 - 2001)	Ph.D. in Computer Science, Communcation and Electronic Engineering
<ul> <li>Name and type of organisation providing education and training</li> </ul>	University of Palermo
<ul> <li>Principal subjects/occupational skills covered</li> </ul>	Electronic, Telecommunications, Computer science
• Title of qualification awarded	Doctor of Philosophy in Computer Science, Communcation and Electronic Engineering
• Dates (1998 – 2001)	Master Degree in Electronic Engineering
<ul> <li>Name and type of organisation providing education and training</li> </ul>	University of Catania
<ul> <li>Principal subjects/occupational skills covered</li> </ul>	Electronic, Telecommunications, Computer science
• Title of qualification awarded	Master degree in Electronic Engineering
PRINCIPAL POSITIONS	
• Dates (2002 – today)	Assistant Professor SSD ING-INF/03
Name and address of employer	University "Mediterranea" of Reggio Calabria 25, Via dell'Università, Reggio Calabria 89124, www.unirc.it
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<ul> <li>Type of business or sector</li> <li>Occupation or position held</li> <li>Main activities and responsibilities</li> </ul>	Educational & Research Assistant Professor His main responsibilities concern the following aspects: <b>Teaching:</b> During his career he teaches several courses such as Communication Basic, Communication Systems and Multimedia Internet <b>Research:</b> His current interests include EDGE Computing, Software Defined Networks, Information Centric Networks, and Internet of Things.
TEACHING	
• Current • Past	Communication Basics, Multimedia Internet Communication Systems, Computer Networks part II, Wireless Networks and Devices
<b>GRANTS &amp; PROJECTS</b>	
<ul> <li>Dates (2018 – 2021)</li> <li>Name of the project</li> <li>Description</li> <li>Total grant</li> </ul>	Participant A-WEAR "A network for dynamic wearable applications with privacy constraints". H2020 MSCA-ITN/EJD. Member of the RU & Co-supervisor of an ESR. € 473.535 for the RU of the Univ. of Reggio Calabria.
<ul> <li>Dates (2018 – 2021)</li> <li>Name of the project</li> <li>Description</li> </ul>	WP1 Leader and Local Coordinator at University "Mediterranea" of Reggio Calabria ARS01_00836, "A COGnItive dynamic sysTem to allOw buildings to learn and adapt – COGITO" The project is focused on the integration of Internet of Things (IoT) with dynamic cognitive systems (SDC) with the aim of improving the management of public and residential buildings with cognitive and self-developed capabilities. The goal of the project is to combine IoT technology, cognitive computing, big data, machine learning and reasoning to help people live and work better in buildings, as well as maintain and manage the building itself by providing it with the capabilities to learn over time how to improve building management by acting in advance by performing programming, monitoring and control actions. The main partners of the project are: genzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile, ATERP Azienda Territoriale per l'Edilizia Residenziale Pubblica della Calabria, CUEIM Consorzio Universitario di Economia Industriale e Manageriale, Digimat S.r.I., DS TECH S.R.L., SCAI Lab S.r.I., SI-LAB CALABRIA SCARL, SITE S.p.A., SMARTS S.R.L. SPIN-OFF UNIRC, Telecom Italia SpA, Università degli Studi "Mediterranea" di REGGIO CALABRIA, Università degli Studi della BASILICATA, Università della CALABRIA Overall Budget € 8.585.926,68 - € 800.000 for the RU of the Univ. of Reggio Calabria.
<ul> <li>Dates (2018 – 2021)</li> <li>Name of the project</li> </ul>	Participant ARS01_00582, "Virtualizzazione, sensing e IoT per l'innovazione del processo produttivo industriale delle bevande"
Description	Principal Investigator: Prof. A. Iera. Proponents: ARTEMAT S.R.L., CeRICT - Centro Regionale Information Communication Technology, CHROMALEONT S.R.L., Consorzio Nazionale Interuniversitario per le Telecomunicazioni (CNIT), SIRFIN SOCIETA' PER AZIONI, SMARTS S.R.L. SPIN-OFF UNIRC, Università degli Studi "Mediterranea" di REGGIO CALABRIA, WILD ORANGE S.R.L. IN SIGLA W.O. S.R.L.
• Total grant	Overall Budget € 5.478.799,45.

Dates (2018 – 2021) Participant
 Name of the project ARS01\_01181, "Piattaforma Modulare Multi-Missione"

Description
 Proponents: Distretto Tecnologico Aerospaziale della Campania - DAC S.c.a.r.l., Lombardia
 Aerospace Cluster – LAC, Università degli Studi "Mediterranea" di REGGIO CALABRIA,
 Università degli Studi di PADOVA

• Total grant Overall Budget € 9.263.520,09.

<ul> <li>Dates (2018 – 2021)</li> <li>Name of the project</li> <li>Description</li> <li>Total grant</li> </ul>	Participant ARS01_01100, "MyPasS - La Mobilità per i passeggeri come Servizio" Proponents: ALGOWATT S.p.A., ARST SPA, Corvallis S.r.I. a Socio Unico, ENGINEERING INGEGNERIA INFORMATICA SPA, EVOLVEA S.R.L., GREENSHARE SRL, Modis Consulting S.r.I., Municipia S.p.A., Università degli Studi "Mediterranea" di REGGIO CALABRIA, Università degli Studi di CAGLIARI Overall Budget € 5.966.835,40
<ul> <li>Dates (2013 – 2017)</li> <li>Name of the project</li> <li>Description</li> </ul>	Local Coordinator at University "Mediterranea" of Reggio Calabria PON03PE_00050_1, " Domus - Smart platform for monitoring and management of in-home security and safety of people and structures" The technological challenge that the project wants to face is the development of a social & pervasive technological platform allowing the integration of multi-sensors to enable security in the residential sector, through continuous control and monitoring of the welfare of residents and structures. The platform will exploit in an integrated fashion multiple information deriving from Body Area Networks measuring physiological parameters, from devices monitoring physical activity and from aids for disabled, all conform to proprietary, and usually incompatible with each other, communication standards. At the same time, a platform objective is the real-time monitoring of structures, which is implemented through the control and monitoring of phenomena
	based on the measurement of physical-mechanical parameters that describe the interaction between the environment and the state variables of structural object to be monitored. The main partners of the project are: University of Calabria, University "Mediterranea" of Reggio Calabria, CNR, Telecom Italia, SI-IES s.r.l.
Total grant	Overall Budget € 4.320.614,95 - € 1.074.000 for the RU of the Univ. of Reggio Calabria
• Dates (2013 – 2017) • Name of the project • Description • Total grant	Participant PON03PE_00050_2, "Domus- Cooperative Energy Brokerage Services" In the last few years, trough the opening towards the home users market for energy supply (electricity and gas), the liberalization process of the energy services provision has been completed, more slowly compared to other network services (cf. for example, fixed and mobile telephony) due to the public service nature of energy supply. The aim of the project is to resort to innovative interaction systems with the free market consisting of appropriate energy brokerage services for users' aggregations, to pursuit the rates reduction making full use of information and communication technologies to support intelligent networks (smart grids) as important tools to allow simultaneously: - more rational use of energy and, consequently, transmission and distribution systems; - energy savings; - the renewable energy sources exploitation by the user who becomes a prosumer; - participation in the market by active demand management systems. The main partners of the project are: University of Calabria, University "Mediterranea" of Reggio Calabria, CNR, Telecom Italia, SI-IES s.r.l. Overall Budget € 4.428.649,00 - € 587.738 for the RU of the Univ. of Reggio Calabria
<ul> <li>Dates (2013 – 2014)</li> <li>Name of the project</li> </ul>	Participant PON01 03096, "MC3 CARE- Integrated Platform to record, synchronize and share data a and
	access information on healthy, lifestyle and public health system from mobile"
Description	The main partners of the project are: CNIT - Consorzio Nazionale Interuniversitario per le Tele comunicazioni.
Total grant	€ 576.800
<ul> <li>Dates (2011 – 2016)</li> <li>Name of the project</li> </ul>	Participant PON01_00636, "Tecnologie e Materiali Anticontraffazione e Applicazioni Nanotecnologiche per l'Autenticazione e la tutela delle Produzioni Agro-Alimentari di Eccellenza - FINGERIMBALL"
Description	FINGERIMBALL is a design concept that combines food profiling of excellence extrapolated primarily with omics technology and nanotechnology and aimed to create a Hight Quality Food

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• Total grant	identity card with the new ICTs. The main partners of the project are: UNIVERSITA' Mediterranea di Reggio Calabria, Università degli Studi di Messina, Università degli Studi di Salerno, API REGGINA società cooperativa agricola, EUROIDEE SrI, CNR - Consiglio nazionale delle ricerche, Dolciaria Monardo S.r.I., NATUREMED srI, PLANE S.R.L. Overall Budget € 7.405.638,57 - € 3.061.384,28 for the RU of the Univ. of Reggio Calabria
• Dates (2011 – 2016) • Name of the project • Description	Local Coordinator at University "Mediterranea" of Reggio Calabria PRIN 2009S7RLXY_002, "STEM-Net: "STEM" devices for self-organizing wireless Networks" In the last years, the research world focused on networks constituted by elements able to: self- configure, self-adjust and self-organize. In the project STEM-Net the self-organization is managed at the level of a single wireless device, which is called "stem unit" because of its resemblance with its biological analogous. The "stemness" concept is analyzed and investigated through 4 main research directions: protocol reconfiguration, multi-homing, learning, cooperation/coordination. This unit's reconfiguration results in an extreme flexibility of the whole network segment, and it turns the nodes heterogeneity from a limitation to a richness. Principal Investigator: Prof. E. Viterbo Proponents: University of Calabria, University of Bologna, University "Mediterranea" of reggio Calabria.
Total grant	€ 95.258 for the RU of the Univ. of Reggio Calabria

## SELECTED PUBLICATIONS AND RESEARCH REPORTS

- (out of more than **75** publications)
- G. Ruggeri, M. Amadeo, C. Campolo, A. Molinaro and A. Iera, "Caching Popular Transient IoT Contents in an SDN-based Edge Infrastructure," in IEEE Transactions on Network and Service Management, 2021
- M. Amadeo, G. Ruggeri, C. Campolo, A. Molinaro, "Diversity-improved caching of popular transient contents in Vehicular Named Data Networking, Computer Networks", Volume 184, 2021, 107625.
- M. Amadeo, G. Ruggeri, C. Campolo, A. Molinaro, "IoT services allocation at the edge via named data networking: From optimal bounds to practical design," IEEE Transactions on Network and Service Management, 2019
- M. Amadeo, C. Campolo, G. Ruggeri, A. Molinaro "Beyond Edge Caching: Freshness and Popularity Aware IoT Data Caching via NDN at Internet-Scale," (2021) IEEE Transactions on Green Communications and Networking, DOI: 10.1109/TGCN.2021.3124452
- M. Amadeo, C. Campolo, G. Ruggeri, A. Molinaro, A. Iera, "SDN-Managed Provisioning of Named Computing Services in Edge Infrastructures," (2019) IEEE Transactions on Network and Service Management, 16 (4), art. no. 8856241, pp. 1464-1478. DOI: 10.1109/TNSM.2019.2945497

PERSONAL SKILLS AND COMPETENCES Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.	
MOTHER TONGUE	ITALIAN
OTHER LANGUAGES	
<ul><li>Reading skills</li><li>Writing skills</li><li>Verbal skills</li></ul>	ENGLISH GOOD GOOD GOOD
SOCIAL SKILLS AND COMPETENCES Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential.	During his long career, Giuseppe Ruggeri has created acquaintances with fellow researchers all around the world, the resulting social network has proved to be very useful to build partnership to propose research project, organize workshop and to plan joint research activities. In addition, Giuseppe Ruggeri serves as department delegate for prospective students guidance. Hence he frequently gives public speeches to high school students, produces short video clips for social media and, releases interviews to websites and local radios.
ORGANISATIONAL SKILLS AND COMPETENCES Coordination and administration of people, projects and budgets; at work, in voluntary work.	Giuseppe Ruggeri served as the coordinator of the local research teams at University "Mediterranea" involved in the projects "Stem-Net devices to build a Self-Generating access network", "Domus - Smart platform for monitoring and management of in-home security and safety of people and structures" and, "A COGnItive dynamic sysTem to allOw buildings to learn and adapt – COGITO". He also served as WP leader for COGITO project. Those responsibilities requested him (i) to coordinate and to supervise the work of the researchers involved in the local teams/work package, (ii) to coordinate with the partners' research teams, (iii) to monitor the advancement of the activities and to check their alignment with the overall project GANTT, (iv) to manage the budget assigned to the local teams/work package.
Additional information	Giuseppe Ruggeri is co-founder of SMARTS s.r.l. a spin-off of company of University of "Mediterranea" of Reggio Calabria.
	Giuseppe Ruggeri served as TPC member of several leading international conferences and he was a member the organizing committee of several workshop. He has been guest-editor for IEEE Internet of Thing Journal and for Elsevier Ad Hoc Networks. Since 2017 he is serving as area editor of Elsevier Ad Hoc Networks, since 2019 he serving as managing editor of Springer Wireless Networks.
	According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV. Reggio Calabria, 7.4.2022 Name Surname Signature