

PERSONAL INFORMATION

Maria Fazio

[✉ mfazio@unime.it](mailto:mfazio@unime.it)[🌐 https://fcrlab.unime.it/people](https://fcrlab.unime.it/people)[in https://www.linkedin.com/in/faziomaria/](https://www.linkedin.com/in/faziomaria/)

Date of birth 17 July 1976 | Nationality Italian

WORKING EXPERIENCE

December 2020 - Present

Assistant ProfessorUniversità degli Studi di Messina
SSD: Inf/01-Informatica

December 2019 - Present

Member of the PhD course in Bioengineering Applied to Medical Sciences

Università degli Studi di Messina

The PhD course joins professors working on both the technological and biomedical sectors in order to train young researchers who can act as a bridge between the two areas. The College involves researchers from Italian and foreign research bodies and companies operating in the biomedical sector.

December 2018 - December 2020

Research AssociateUniversità degli Studi di Messina
SSD: Inf/01-Informatica

The position was cofunded by the Institute of Hospitality and Care in Character Scientific (IR-CCS) Bonino Pulejo of Messina, under the Agreement between the Università degli Studi di Messina and IRCCS for joint activities on: Cloud Services for Workflow Automation Medical care in the remote assistance of patients with pathologies.

February 2017 - November 2019

Spin-Off co-founder

Academic Spin-Off at University of Messina named "Alma Digit"

Alma Digit is a fully Constituted, S.R.L-Company

The Spin-Off aims at creating a Cloud Platform for Implementation and automation of processes. Role: Scientific Responsible and Driver of ICT Innovations.

February 1, 2016 - October 31, 2016

Research Grant

University of Messina, Italy

Research Grant supported by the EU FP7 CloudWave: Agile Service Engineering for the Future Internet. 2013-16.

Design and development of software components and prototypes for cloud services working on virtual infrastructures and exploiting agile development mechanisms for reliable services.

October 1, 2012 - October 31, 2014

Assistant Researcher

University of Messina, Italy

Research assistant position supported by project S.I.Mon.E. (Integrated system for monitoring energy production in smart grids), PO FESR Sicilia 2007-2013, DICIEAMA Department at the University of Messina.

Design and development of a Cloud-based solution to collect, store and process data coming from energy monitoring environment.

February 10 - November 09, 2011 **Assistant Researcher**

University of Messina, Italy

Research assistant position supported by project PRIN 2008, Department of Mathematics of the University of Messina.

Working on "Studio e sviluppo di architetture ed algoritmi per infrastrutture Cloud a contribuzione volontaria" (Design and development of architectures and algorithms for voluntary contribution in Cloud infrastructures).

Design and development of an algorithm for resource management in the Cloud@Home infrastructure.

March 1, 2009 - February 28, 2010 **Assistant Researcher**

University of Messina, Italy

Research assistant position supported by project PRIN 2007, Department of Mathematics of the University of Messina.

Working on algorithms for QoS in sensor networks.

May 11, 2006 - February 29, 2008 **Post-doc fellowship**

University of Messina, Italy

Post-doc fellowship in Advanced Technologies for Information Engineering.

Working on middleware services for wireless ad hoc networks.

May 01 - December 31, 2015 **Fixed-term contract**

SESA NV S.r.l., via Cristoforo Colombo n.112, 00147, Roma, Italy

Fixed-term contract within the research project STIGAFF.

Design and Implementation of ICT solutions for an advanced management of banking services through multi-channel transactional systems.

May 01 - September 30, 2015 **Fixed-term contract**

University of Messina, Italy

Fixed-term contract within the national research project S.I.Mon.E. (Integrated system for monitoring energy production in smart grids).

Test and reorganization of the S.I.Mon.E. middleware for managing cloud-oriented applications with security requirements.

March 01 - October 31, 2008 **Fixed-term contract**

Consorzio COMETA, University of Catania, Italy

Fixed-term contract within the national research project *PI2S2*, stipulated with Consorzio COMETA, University of Catania, via S. Sofia 6, 95123, Italy.

Development of procedures necessary for the efficient management of the GRIDSPN communication subsystem.

March 15 - April 14, 2006 **Fixed-term contract**

University of Messina, Italy

Fixed-term contract within the national research project *TriGrid VL*, stipulated with the Department of Mathematics of the University of Messina, Italy.

Working on the development of procedures necessary for the efficient management of the GRIDSPN communication subsystem.

December 1 - 31, 2005 **Fixed-term contract**

University of Messina, Italy

Fixed-term contract within the national research project *FIRB-Perf* (Performance Evaluation of Complex Systems-Techniques, Methodologies and Tools), stipulated with the Department of Mathematics of the University of Messina, Italy.

Working on the implementation of simulative performance models for wireless networks.

2003 - 2006 **Assistant**

University of Messina, Italy

Assistant in Computer science (S.S.D. ING-INF/05) at the Faculty of Engineering.

TEACHING EXPERIENCE

Academic years: 2021/2022 **Advanced Algorithms And Computational Models - Mod. B (6 CFU, SSD INF/01)**

Master Degree course in Engineering and Computer science

University of Messina, Italy

Academic years: 2021/2022 **Programming (9 CFU, SSD INF/01)**

Undergraduate course in Computer science

University of Messina, Italy

Academic years: 2021/2022 **Virtualization Systems (Operating Systems - Module B) (6 CFU, SSD INF/01))**

Undergraduate course in Computer science

University of Messina, Italy

Academic years: 2020/2021 **Programming (9 CFU, SSD INF/01)**

Undergraduate course in Computer science

University of Messina, Italy

Academic years: 2020/2021 **Operating Systems (Module B) (6 CFU, SSD INF/01))**

Undergraduate course in Computer science

University of Messina, Italy

Academic years: 2019/2020 **Informatics for finance**

Undergraduate course in Bank and finance

University of Messina, Italy

Academic years: 2019/2020 **Database**

Undergraduate course in Electronic and Informatics Engineering

University of Messina, Italy

Academic years: 2018/2019 and 2019/2020 **Operating Systems (Module B)**

Undergraduate course in Computer science
University of Messina, Italy

Academic years: 2014/2015 and
2015/2016

Fundamentals of Informatics (Module A)

Undergraduate course in Electronic and Informatics Engineering
University of Messina, Italy

Academic years: 2014/2015

Computer skills

Undergraduate course
University of Messina, Italy
Teacher at the Faculty of Pharmacy, University of Messina.

Academic year: 2011/12

Computer networks

Postgraduate course
University of Messina, Italy
Second level master degree program on "Open source and informatics security", DICIEAMA Department, University of Messina.

Academic year: 2010/11

Web oriented programming and security

Postgraduate course
University of Messina, Italy
Second level master degree program on "Open source and informatics security", Biology Department, University of Messina.

Academic year: 2010/11

Computer networks

Postgraduate course
University of Messina, Italy
Second level master degree program on "Open source and informatics security", Biology Department, University of Messina.

Academic year: 2010/11

Interfaces between logistic systems and characteristic processes

Postgraduate course
University of Messina, Italy
Second level master degree program on "ICT to support sustainable mobility in healthcare", SEFISAST Department, University of Messina.

Academic year: 2010/2011

Elaboration systems (module A)

Undergraduate course in Electronic and Informatics Engineering
University of Messina, Italy
Teacher at the Faculty of Engineering, University of Messina.

Academic years: 2007/2008,
2008/2009 e 2009/2010

Fundamentals of Informatics

Undergraduate course in Engineering
University of Messina, Italy
Teacher at the Faculty of Engineering, University of Messina.

Academic year: 2007/08 Computer networks

Postgraduate course

University of Messina, Italy

Second level master degree program on "Open source and informatics security", Biology Department, University of Messina.

Thesis co-advisor 2003-2016

University of Messina, Italy

Co-advisor of many undergraduate and graduate students at the Faculty of Engineering, University of Messina.

EDUCATION AND TRAINING

National Habilitation for Academic Career as Associate Professor in Computer Science.

April 2017 National Habilitation

National Habilitation for Academic Career as Associate Professor

Area: 01/B1 - Informatica

January 2006 PhD degree

University of Messina, Italy

PhD in Advanced Technologies for Information Engineering

Thesis Title: Autoconfiguration and Reliable Communication Support in Mobile Ad Hoc Networks.

March 8 - September 7, 2005 Visiting experience

University of California, Los Angeles

Working as Intern in the Laboratory of Prof. Mario Gerla, the NRL (Network Research Lab).

Research activity on ad hoc network addressing schemes with reference to VANET (Vehicular Ad hoc NETWORK) environments.

July 2002 Master's degree in Electronic Engineering

University of Messina, Italy

TGraduation mark: Summa cum laude

TThesis Title: Tecnologie wireless per reti Ad Hoc mobili (Wireless technologies for mobile ad hoc networks).

EDITORIAL ACTIVITIES**2021-today Editorial Review Board member/Associate Editor**

International Journal

Journal: Scientific Reports - Computational Science

Publisher: Nature Publishing Group

ISSN: 2045-2322

Journal in Q1-SCOPUS in the Subject Category Multidisciplinary

Journal in Q1-WoS in the Subject Category Multidisciplinary Science

2021-today Editorial Review Board member/Associate Editor

International Journal

Journal: Computing

Publisher: Springer-Verlag Wien

ISSN: 0010-485X

Journal in Q2-SCOPUS in the Subject Category Computer Science: Software
Journal in Q2-WoS in the Subject Category Computer Science, Theory Method

- 2016-today **Editorial Review Board member/Academic Editor**
International Journal
Journal: Wireless Communications and Mobile Computing
Publisher: John Wiley Sons and Hindawi
ISSN: 2410-6895
- 2015-today **Editorial Review Board member/Associate Editor**
International Journal
Journal: EAI Endorsed Transactions on Smart Cities
Publisher: European Alliance for Innovation (EAI)
ISSN: 2518-3893
- 2012-today **Editorial Review Board member**
International Journal
Journal: Journal of Business Data Communications and Networking (IJBDCN)
Publisher: IGI Publishing.
ISSN: 1548-0631
- 2018 **Guest Editor**
Special Issue on International Journal
Special Issue title: Convergence of IoT, Edge, and Cloud Computing in Smart Cities.
Journal: IEEE Cloud Computing.
Publisher: IEEE Computer Society.
volume: Volume: 5 , Issue: 5.
- 2016-2017 **Co-Editor in Chief**
International Journal
Journal: EAI Endorsed Transactions on Cloud Systems.
Publisher: EAI - European Alliance for Innovation.
- 2016 **Guest Editor**
Special Issue on International Journal
Special Issue title: Special Issue on Advances in Cloud for Smart Cities.
Journal: International Journal of Distributed Systems and Technologies (IJDST).
Publisher: IGI Global.
Volume: Vol. 7, No. 1
- 2013 **Guest Editor**
Special Issue on International Journal
Special Issue title: Cloud for Internet of Things.
Journal: Scalable Computing: Practice and Experience.
Publisher: West University of Timisoara, Romania.
volume: Volume 14, Issue 4.

2004-today Reviewer

International Journal

- ACM Transactions on Autonomous and Adaptive Systems (ACM).
- IEEE Transactions on Parallel and Distributed Systems (TPDS), IEEE Computer Society.
- Computer Network (ComNet), Elsevier.
- Ad Hoc Networks, Elsevier.
- Pervasive and Mobile Computing, Elsevier.
- IEEE Communication Letters, IEEE Communication Society.
- Ad Hoc & Sensor Wireless Networks (AHSWN), OCP Science.
- Mobile Networks and Applications, SpringerLink.
- International Journal of Web and Grid Services, Inderscience Publisher.
- Journal on Advances in Signal Processing (EURASIP), Hindawi Publishing Corporation.
- Journal of Zhejiang University SCIENCE (JZUS).
- Neural Network World, Czech Technical University in Prague.

INVITED PRESENTATIONS AND PANELS**3 December 2019 Invited Speaker**

European Commission, Investment in High-Capacity Networks (Unit B.5), Brussels, Belgium
Event: B-Day: Boosting Connectivity Investments,
Panel 3: "Making sense of connectivity"

12 October 2019 Invited Speaker

Google development Group - Nebrodi, Sant'Agata di Militello, Messina, Italy
Event: DevFest Mediterranean
Topic: Introductory keynote on Blockchain and Cryptocurrencies.

9 October 2019 Invited Speaker

Politecnico di Milano, Milano, Italy
Event: Quando il Cloud é troppo lontano Dall'IoT alle applicazioni di Intelligenza Artificiale (When the Cloud is too far from IoT to artificial intelligence applications)
Topic: How Osmotic Computing is changing the deployment of Edge services.

27 June 2016 Invited Speaker

15th International Workshop on Digital Entertainment, Networked Virtual Environments, and Creative Technology (DENVECT'16)
Messina, Italy
Topic: Cloud and Edge Computing for Interactive Media and Digital Entertainment.

15 September 2015 Invited Speaker

Speaker at the Panel "Migrating to Cloud and IoT Solutions: Challenges and Perspectives".
In conjunction with Workshops of ESOCC 2015.
Other speakers of the Panel: Pooyan Jamshidi (Imperial College London, U.K. & IC4, Ireland), Orazio Tormachio (University of Catania, Italy), Luiz Angelo Steffanel (Universit de Reims Champagne-Ardenne, France).

EVENT ORGANIZATION ACTIVITIES**30 June 2019 Publication Chair**

International conference
Barcellona, Spagna.

9th Workshop on Management of Cloud and Smart City Systems (MoCS 2019).

Web site: <https://mocs19.gforge.uni.lu/committee.html>

16 May 2019 **Publication Chair**

International conference

Larnaca, Cipro;

3rd IEEE International Conference on Fog and Edge Computing (ICFEC 2019).

Web site: <http://www.cloudbus.org/fog/icfec2019/organization.html>

11 May 2020 **Organizer**

International workshop

Bilbao, Spagna

Workshop on Secure IoT, Edge and Cloud systems (SIoTEC 2020)

Web site: <http://siotec2020.netsons.org/>

22 October 2019 **Organizer**

International workshop

Melbourne, Victoria, Australia

First Workshop on Cyber-Physical Social Systems (CPSS 2019)

Web site: <https://cpss.netsons.org/>

14-16 September, 2016 **Publication Chair**

International conference

Brindisi, Italy

Conference title: 2nd EAI International Conference on Cloud Computing, Networking for IoT systems (CN4IoT 2016).

Web site: <http://cloudniiot.org/2016>

September 5, 2016 **Organizer**

International workshop

Vienna, Austria

Workshop title: 4th International Workshop on Cloud for IoT (CLIoT 2016).

Web site: <http://sites.google.com/site/cliot2016workshoppaustria>

Note: the workshop has been organized in conjunction with the European Conference on Service-Oriented and Cloud Computing (ESOCC 2016).

27-30 June, 2016 **Workshop Chair**

International conference

Messina, Italy

Conference title: The twenty first IEEE Symposium on Computers and Communications (ISCC 2016).

Web site: <http://iscc2016.unime.it/>

26-27 October, 2015 **Publication Chair**

International conference

Rome, Italy

Conference title: International Conference on Cloud Computing, Networking for IoT systems (CN4IoT 2015).

Web site: <http://cloudnriot.org/2015>

September 15-17, 2015 **Local organization committee member**

International conference

Taormina, Italy

Conference title: Fourth European Conference on Service-Oriented and Cloud Computing (ES-OCC 2015).

Web site: <http://esocc2015.unime.it/>

September 15, 2015 **Organizer**

International workshop

Taormina, Italy

Workshop title: 3rd International Workshop on Cloud for IoT (CLIoT 2015).

Web site: <https://sites.google.com/site/cliot2015/>

Note: the workshop has been organized in conjunction with the European Conference on Service-Oriented and Cloud Computing (ESOCC 2015).

September 2, 2014 **Organizer**

International workshop

Manchester, United Kingdom

Workshop title: 2nd International Workshop on Cloud for IoT (CLIoT 2014).

Web site: <https://sites.google.com/site/cliot2014/>

Note: the workshop has been organized in conjunction with the European Conference on Service-Oriented and Cloud Computing (ESOCC 2014).

September 11, 2013 **Organizer**

International workshop

Malaga, Spain

Workshop title: Cloud for IoT (CLIoT 2013).

Web site: <https://sites.google.com/site/cliot2013/>

Note: the workshop has been organized in conjunction with the European Conference on Service-Oriented and Cloud Computing (ESOCC 2013).

March 10, 2011 **Member of the organization committee**

International workshop

Taormina, Italy

Workshop title: The Future of Cloud Computing: Strategies and Design.

Web site: <http://reservoir.unime.it/workshop/>

Note: the workshop has presented the main results achieved in the Resources and Services Virtualization without Barriers (RESERVOIR), European Union FP7 funded project.

July 20, 2006 **Organizer**

Public Lecture

University of Messina, Italy

Speaker: Prof. Giuseppe Anastasi, Associate Professor of Computer Engineering at the Department of Information Engineering of the University of Pisa, Italy.

Lecture title: Energy-efficient Data Collection in Wireless Sensor Networks.

Address: Faculty of Engineering, University of Messina, Italy.

- December 14, 2005 **Organizer**
Public Lecture
University of Messina, Italy
Dr. Daniela Maniezzo, Assistant Professor at the University of California, Los Angeles, USA.
Lecture title: em IEEE 802.11s Mesh Networks.
Address: Faculty of Engineering, University of Messina, Italy.

FUNDING AND AWARDS

- May 2019 **Funding**
Funding for Basic University Research Activities (FFABR Unime)
Object of the funding: the FFABR Unime program aims to assign funding to each associate professor or researcher according to the order of the ranking drawn up on the basis of the individual scientific production of each proposer of the last five years.

- December 2018 **Award**
Winner of the "Discover Open Data Challenge" award, FIWARE ICT Challenge Vienna with Alma Digit s.r.l.
The winners realized their concept in a Challenge Partner project and won prize money totaling 10,000 Euros.

- December 2018 **Recognition**
The paper "An IoT Cloud System for Traffic Monitoring and Vehicular Accidents prevention Based on Mobile Sensor Data Processing" is recognized as one of the top 50 most frequently accessed documents in November 2018 by IEEE Sensors Journal

- October 2014 **Award**
Special award for the innovation project "itineranda", Start Cup Unime competition
University of Messina, Italy.

NATIONAL AND INTERNATIONAL PROJECTS

She has been involved in the activities of many projects, such as:

- H2020 URBANITE - Supporting the decision-making in URBAN transformation with the use of disruptive TEchnologies, 2020-2023.
- TALIsMAN: Tecnologie di Assistenza personalizzata per il Miglioramento della qualità della vita, PON "Ricerca e Innovazione" 2014 - 2020, Area di Specializzazione: Tecnologie per gli Ambienti di Vita, Grant ARS01_01116.
- GOFORIT - L'Esperienza prima della partenza, PON "Ricerca e Innovazione" 2014 à 2020, Area di Specializzazione: Cultural Heritage, Grant ARS_0100865.
- C4E: Federated Certified Service Brokerage (FCSB), EU FP7-Cloud for Europe: Realization of a research and development project (pre-commercial procurement) on Cloud for Europe, LOT 1, Number 5843932. - September 2015-November 2016.
- C4E: Secure, Legislation Aware Storage (SLAS), EU FP7-Cloud for Europe: Realization of a research and development project (pre-commercial procurement) on Cloud for Europe, LOT 2, Number 5843932. - September 2015-November 2016.
- H2020 BEACON - Enabling Federated Cloud Networking - 2015.
- EU FP7 CloudWave: Agile Service Engineering for the Future Internet - 2013.
- Italian PON SIGMA: Sistema Integrato di sensori in ambiente cloud per la Gestione Multirischio Avanzata - 2013.
- Italian POR FESR SIMONE - Sistema Integrato per il MONitoraggio della produzione di Energia Elettrica - 2013.
- EU FP7 Project VISION CLOUD - 2010.
- Italian Project PRIN Cloud@Home - 2010.
- EU FP7 Project RESERVOIR - Resources and Services Virtualization without Barriers - 2008.
- Italian project PI2S2: Progetto per la Implementazione e lo Sviluppo di una e-Infrastruttura in Sicilia basata sul paradigma della Grid - 2007.
- Italian TriGrid VL: Trinacria Grid Virtual Laboratory - 2006.
- Italian Project CNR Software Infrastructures for ad hoc networks in complex environments - 2002.
- Italian Project FIRB WebMinds: Middleware for advanced services in wired-wireless distributed systems of huge dimensions - 2002.

ACADEMY AND SCIENTIFIC MEMBERSHIP

- 2019-today **Membership**
 Member of GRIN (National Group of Informatics)
 Web site: www.grin-informatica.it
- 2016-today **Membership**
 Member of the Istituto Nazionale di Alta Matematica "Francesco Severi"
 Web site: <https://www.altamatematica.it/>
- 2015-today **Membership**
 IEEE Computer Society Technical Community on Parallel Processing (TCPP)
 Member of the IEEE Computer Society Technical Community on Parallel Processing (TCPP)
 Web site: <http://tcpp.computer.org>
- 2014-today **Membership**
 IEEE Internet of Things (IoT)
 Member of the IEEE Internet of Things (IoT) Technical Community.
 Web site: <http://http://iot.ieee.org/>
- 2007-today **Technical Program Committee Membership**
 International conferences and workshops

Member of the Technical Program Committee of several international conferences and workshops, such as: IADIS Telecommunications, Networks And Systems (TNS), International Workshop on Ubiquitous Multimedia Systems and Applications (UMSA), IEEE International Congress on Ultra Modern Telecommunications and Control Systems (ICUMT), IEEE-IFIP Wireless Days (WD), International Conference On Sensing Technology (ICST), International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN), International Conference on the Future Internet of Things and Cloud (FiCloud), International Multi-Conference on Computing in the Global Information Technology (ICCGI), Workshop on Management of Cloud Systems (MoCS), International Workshop on Sensors and Smart Cities (SCC), International Workshop on Emerging Multimedia Applications and Services for Smart Cities (EMASC), Workshop on the management of resources and services in Cloud and Sky computing (MICAS), IADIS International Conference on Connected Smart Cities (CSC), International Conference on Theory and Practice in Modern and Computing (TPMC).

INSTITUTIONAL RESPONSIBILITIES

March 2021-today

Node Director

Node Director for the University of Messina in CINI National Laboratory "HPC: Key Technologies and Tools" (HPC-KTT). The HPC-KTT laboratory focuses on models and tools for High Performance Computing. <https://www.consortio-cini.it/index.php/it/home-hpc>

University of Messina

October 2019-today

Scientific Responsible

Scientific Responsible of the research activities defined in the agreement between the University of Messina, the Istituto Superiore di Sanità and the Institute for Biomedical Research and Innovation (IRIB) - CNR as part of the Project "Shaping the social brain through early interactions - SAPIENS", admitted for funding from European Union funds Horizon 2020 under the Marie Skłodowska-Curie Actions - Innovative Training Networks Program n. 814302.

University of Messina

April 2021-January 2022

Scientific Supervisor

Scientific Supervisor of the UNESCO/Keizo Obuchi Research Fellowship to undertake research on "La Technologie d'Internet utilisée pour connecter une communauté Rural à un Cloud".

University of Messina

May 2020-today

Vice head of Bachelor Program

Vice head of the Bachelor Program in Computer Science

Dipartimento di Scienze Matematiche e Informatiche, Scienze Fisiche e Scienze della Terra (MIFT)

University of Messina

November 2019-today

Technical Referent

Technical Referent for the University of Messina in the TALIsMAN project

TALIsMAN: Tecnologie di Assistenza personalizzata per il Miglioramento della qualità della vita, PON Ricerca e Innovazione 2014 - 2020, Area di Specializzazione: Tecnologie per gli Ambienti di Vita, Grant ARS01_01116.

November 2019-today

Ph.D supervising

Referent for the supervision of a Ph.D student in "Bionengineering applied to medical sciences"

Ph.D fellowship funded by the Istituto Superiore di Sanità, within the action "SAPIENS: Shaping the social brain through early interactions" Marie Skłodowska-Curie Actions - Innovative Training Network

May 2015-October 2016 **Referent**

Referent for the H2020 BEACON (Federated Cloud Networking- 2015/17) project within the Cluster of European Projects on Cloud NATRES (New approaches and technologies for the management of resources and cloud services).

Website: [https://eucloudclusters.wordpress.com/new-approaches-for-infrastructure-services /](https://eucloudclusters.wordpress.com/new-approaches-for-infrastructure-services/)

PUBLICATION

February 2022 **Bibliometric indicators (from Scopus)**

The PI is author of more than 170 papers indexed in Scopus published in international conferences, workshops and journal.

- h-index: 23
- 132 Co-authors
- Total citations: 2084 by 1652 documents

List of publications in the field of healthcare in the last 5 years

- Ruggeri, A., Di Salvo, R., Fazio, M., Celesti, A., Villari, M. Blockchain-Based Strategy to Avoid Fake AI in eHealth Scenarios with Reinforcement Learning (2021) Proceedings - IEEE Symposium on Computers and Communications, 2021-September.
- Romano, A., Lanza, R., Celesti, F., Celesti, A., Fazio, M., Martella, F., Galletta, A., Villari, M. Towards Smart Tele-Biomedical Laboratory: Where We Are, Issues, and Future Challenges (2021) Proceedings - IEEE Symposium on Computers and Communications, 2021-September, .
- Koyazo, J.T., Ugwiri, M.A., Lay-Ekuakille, A., Fazio, M., Villari, M., Liguori, C. Collaborative systems for telemedicine diagnosis accuracy (2021) Acta IMEKO, 10 (3), pp. 192-197. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-8511905731>
- Celesti, A., Celesti, F., Fazio, M., Villari, M. Improving Tele-Rehabilitation Therapy through Machine Learning with a NoSQL Graph DBMS Approach (2020) 2020 IEEE Globecom Workshops, GC Wkshps 2020 - Proceedings, art. no. 367392, .
- Salvo, R.D., Fazio, M., Celesti, A., Santoro, D., Villari, M. Mathematical Model and AI Oriented Analysis for Self-Regulated Learning in Remote Health Treatments (2020) 2020 IEEE Globecom Workshops, GC Wkshps 2020 - Proceedings, art. no. 367487, .
- Ruggeri, A., Fazio, M., Galletta, A., Celesti, A., Villari, M. A Decision Support System for Therapy Prescription in a Hospital Centre (2020) Proceedings - IEEE Symposium on Computers and Communications, 2020-July, art. no. 9219656, .
- Celesti, A., Celesti, F., Galletta, A., Fazio, M., Villari, M. Improving Machine Learning Algorithm Processing Time in Tele-Rehabilitation through a NoSQL Graph Database Approach: A Preliminary Study (2020) Proceedings - IEEE Symposium on Computers and Communications, 2020-July, art. no. 9219700, .
- Fazio, M., Buzachis, A., Galletta, A., Celesti, A., Villari, M. A proximity-based indoor navigation system tackling the COVID-19 social distancing measures (2020) Proceedings - IEEE Symposium on Computers and Communications, 2020-July, art. no. 9219634, .
- Fiorillo, L., Cicciù, M., De Stefano, R., Bocchieri, S., Herford, A.S., Fazio, M., Cervino, G. Virtual reality and massive multiplayer online role-playing games as possible prophylaxis mathematical model: Focus on COVID-19 spreading (2020) Epidemiologic Methods, 9 (s1), art. no. 20200003, .
- Celesti, A., Ruggeri, A., Fazio, M., Galletta, A., Villari, M., Romano, A. Blockchain-based healthcare workflow for tele-medical laboratory in federated hospital IoT clouds (2020) Sensors (Switzerland), 20 (9), art. no. 2590, .
- Carnevale, L., Celesti, A., Fazio, M., Villari, M. A big data analytics approach for the development of advanced cardiology applications (2020) Information (Switzerland), 11 (2), art. no. 60, .
- Celesti, A., Lay-Ekuakille, A., Wan, J., Fazio, M., Celesti, F., Romano, A., Bramanti, P., Villari, M. Information management in IoT cloud-based tele-rehabilitation as a service for smart cities: Comparison of NoSQL approaches (2020) Measurement: Journal of the International Measurement Confederation, 151, art. no. 107218, .
- Galletta, A., Buzachis, A., Fazio, M., Celesti, A., Taheri, J., Villari, M. Smart hospitals enabled by edge computing (2020) Edge Computing, pp. 357-379.
- Ruggeri, A., Fazio, M., Celesti, A., Villari, M. Blockchain-Based Healthcare Workflows in Federated Hospital Clouds (2020) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 12054 LNCS, pp. 113-121.
- Celesti, F., Celesti, A., Galletta, A., Fazio, M., Villari, M. Optimizing the Research of DNA Sequences in a NoSQL Document Database: A Preliminary Study (2019) Proceedings - IEEE Symposium on Computers and Communications, 2019-June, art. no. 8969697, .

- Buzachis, A., Celesti, A., Fazio, M., Villari, M. On the Design of a Blockchain-as-a-Service-Based Health Information Exchange (BaaS-HIE) System for Patient Monitoring (2019) Proceedings - IEEE Symposium on Computers and Communications, 2019-June, art. no. 8969718, .
- Celesti, A., Galletta, A., Celesti, F., Fazio, M., Villari, M. Using Machine Learning to Study Flu Vaccines Opinions of Twitter Users (2019) Proceedings - IEEE Symposium on Computers and Communications, 2019-June, art. no. 8969742, .
- Carnevale, L., Calabro, R.S., Celesti, A., Leo, A., Fazio, M., Bramanti, P., Villari, M. Toward improving robotic-assisted gait training: Can big data analysis help us? (2019) IEEE Internet of Things Journal, 6 (2), art. no. 8410669, pp. 1419-1426.
- Celesti, A., Fazio, M., Márquez, F.G., Glikson, A., Mauwa, H., Bagula, A., Celesti, F., Villari, M. How to develop IoT cloud e-health systems based on fiware: A lesson learnt (2019) Journal of Sensor and Actuator Networks, 8 (1), art. no. 7, .
- Galletta, A., Carnevale, L., Bramanti, A., Fazio, M. An Innovative Methodology for Big Data Visualization for Telemedicine (2019) IEEE Transactions on Industrial Informatics, 15 (1), art. no. 8370134, pp. 490-497.
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2003- Present **Scientific collaborations**

Collaborations proven by scientific joint publications with several international research groups in Academia and Industry : University of California in Los Angeles (USA), Indian Institute of Technology a Guwahati (India), Indian Institute of Technology in Guwahati (India), Amirkabir University of Technology and Iran University of Science and Technology in Tehran (Iran), National Technical University in Athene (Grecia), University of Derby (UK), University of Manchester (UK), Università del Salento (Italy), Federal University of Santa Catarina (Brazil), Newcastle University (UK), Cardiff University (UK), Technische Universität Wien (Austria), Telefonica (Spagna), IBM (Israele), IRCCS Centro Neurolesi Bonino Pulejo (Italy) Universidad de Alcalá (Spain), South China University of Technology (China), University of Sydney (Australia), Universitatea de Vest din Timisoara (Romania), University of Amsterdam (Netherlands).

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

Messina, February 12th, 2022