



## Francesco Buccafurri

**Date of birth:** [REDACTED] | **Nationality:** Italian | **Phone number:**

(+39) 09651693302 (Work) | **Email address:** [bucca@unirc.it](mailto:bucca@unirc.it) |

**Address:** Università Mediterranea di Reggio Calabria (Italy), via dell'Università, 25, 89122, Reggio Calabria, Italy (Work)

### WORK EXPERIENCE

2004 – CURRENT Reggio Calabria, Italy

**FULL PROFESSOR OF COMPUTER SCIENCE** UNIVERSITÀ MEDITERRANEA DI REGGIO CALABRIA

1. Holder of the courses: cybersecurity (9 ECTS) and Technologies for cybersecurity (6 ECTS) at the master's degree in computer and telecommunications systems engineering
2. Vice Rector responsible for information systems
3. Past dean of the Master Degree of Computer Engineering and Telecommunication Systems for 6 years

2002 – 2005 Reggio Calabria, Italy

**ASSOCIATE PROFESSOR OF COMPUTER SCIENCE** UNIVERSITÀ MEDITERRANEA DI REGGIO CALABRIA

1997 – 2002 Reggio Calabria, Italy

**ASSISTANT PROFESSOR OF COMPUTER SCIENCE** UNIVERSITÀ MEDITERRANEA DI REGGIO CALABRIA

1995 – 1997 Cosenza, Italy

**TEMPORARY PROFESSOR (EX ART. 100 OF DPR 382-80) OF COMPUTER SCIENCE** UNIVERSITÀ DELLA CALABRIA

**TEACHING IN VARIOUS MASTERS IN CYBERSECURITY** UNIVERSITÀ DELLA CALABRIA AND UNIVERSITÀ MEDITERRANEA DI REGGIO CALABRIA

2020 – 2021

**TEACHING IN CYBERSECURITY COURSES FOR THE PUBLIC SECTOR**

### EDUCATION AND TRAINING

1995 – 1996

**VISITING SCHOLAR** Technical University of Vienna

1993 – 1995 Cosenza, Italy

**PHD IN COMPUTER SCIENCE** Università della Calabria

**Address** Cosenza, Italy

1992 – 1993 Cosenza, Italy

**RESEARCH FELLOW IN COMPUTER SCIENCE** National Research Center (ICAR-CNR)

**Address** Cosenza, Italy

1991 – 1992 Cosenza, Italy

**RESEARCH FELLOW IN COMPUTER SCIENCE** Research Center CRAI

**Address** Cosenza, Italy

1985 – 1991 Cosenza, Italy

**LAUREA DEGREE IN COMPUTER SCIENCE ENGINEERING SUMMA CUM LAUDE (FIVE-YEAR PROGRAMME)** Università della Calabria

**Address** Cosenza, Italy

## ● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

|                | UNDERSTANDING |         | SPEAKING          |                    | WRITING |
|----------------|---------------|---------|-------------------|--------------------|---------|
|                | Listening     | Reading | Spoken production | Spoken interaction |         |
| <b>ENGLISH</b> | B2            | C1      | B2                | B2                 | C1      |
| <b>SPANISH</b> | B1            | B1      | B1                | B1                 | B1      |

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● DIGITAL SKILLS

Programming (Pascal, Modula2, Java, C, C++, Ada, Prolog, SQL) | Microsoft Office | Skype | Zoom | LinkedIn | Social Media | Power Point | Latex: advanced user | Organizational and planning skills | Team-work oriented | Written and Verbal skills | Internet user | Presenting | Gmail

## ● ADDITIONAL INFORMATION

### PUBLICATIONS

[F. Buccafurri, V. De Angelis, C. Labrini, A centralized contact-tracing protocol for the COVID-19 pandemic](#)

– 2022

Information Sciences (Elsevier), Volume 617, 2022, Pages 103-132, ISSN 0020-0255

[F. Buccafurri, V. De Angelis, G. Lax, An integrity-preserving technique for range queries over data streams in two-tier sensor networks.](#)

– 2022

Computer Networks (Elsevier), Volume 217, 2022, 109316, ISSN 1389-1286

[F. Buccafurri, V. De Angelis, M. F. Idone, C. Labrini, A protocol for anonymous short communications in social networks and its application to proximity-based services.](#)

– 2022

Online Social Networks and Media (Elsevier), Volume 31, 2022, 100221, ISSN 2468-6964.

**F. Buccafurri, V De Angelis, C Labrini, Integrity guarantees over highly dynamic outsourced map data**

Proceedings of the 36th Annual ACM Symposium on Applied Computing (SAC). 2021

[F. Buccafurri, G. Lax, L. Musarella, A. Russo, An Ethereum-based solution for energy trading in smart grids](#)

Digital Communications and Networks, Elsevier B.V. on behalf of KeAi Communications Co. Ltd, 2021

[For other publications please see:](#)

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## **PROJECTS**

SERICS: SEcurity and Rights In the CyberSpace - Extended Partnership PNRR - 2023/2025 - Spoke Scientific Coordinator

Project PON n.ARS01\_00587 – named SON (SecureOpenNets) 2018-2020

Project POR CALABRIA FESR-FSE 2014-2020: “SEcurityFRamework for IOT (SE.FR.IOT.)” CUP: J38C170001200062

Project POR CALABRIA FESR-FSE 2014-2020: “Virtual Factory” CUP: J38C170001000063

Project POR CALABRIA FESR-FSE 2014-2020: “Secure Citizen Remote Identification” code: J88C170001500064

Project PON RICERCA E COMPETITIVITA' 2007-2013: “Protection of digital systems and electronic payment systems” code: PON03PE\_00032\_25

Project PON RICERCA E COMPETITIVITA' 2007-2013: Secure dematerialization” code: PON03PE\_00032\_36

Project PON RICERCA E COMPETITIVITA' 2007-2013: “BA2Know -Business Analytics to Know”Codice progetto: code PON03PE\_00001\_17

Project PRIN 2013-2016, “TENACE –Protection of Critical Infrastructures ” funded by the Italian Ministry of University and Research (MUR)

Project PRIN 2008 "EASE", funded by the Italian Ministry of University and Research (MUR)

WASP (Working Group on Answer Set Programming) IST-2001-37004, 5th framework programme, Information Society Technologies, Action Line FET

project FEAST - Fundamentos y Extensiones de la tecnología (Mnisterio de Ciencia e Innovaciòn - Spain)

CNR project SP1: Reti Internet: efficienza, integrazione e sicurezza -Law 449/97

project PRIN 2005 "Quadrantis", funded by the Italian Ministry of University and Research (MUR)

## **JOURNAL EDITORIAL BOARD**

Associated Editor of the journal “Information Sciences” (Elsevier), ISSN: 0020-0255 (Q1 in Scimago)

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Associate Editor of the journal IEEE Transactions on Industrial Informatics, ISSN: 1551-3203 (Q1 in Scimago)

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Editorial Board member of “Journal of Universal Computer Science” ISSN 0948-6968 – Springer (Q2 in Scimago)

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Editorial Board member of “Large Scale Data and Knowledge Centred” - LNCS Transactions Sublime - Springer

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Editorial Board member of Frontiers in Big Data (Cybersecurity and Privacy)– Frontiers Media S.A., ISSN 2624-909X

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Editorial Board member of Future Internet ISSN 1999-5903, MDPI

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Editorial Board member of Machine Learning and Knowledge Extraction, ISSN 2504-4990, MDPI

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Guest Editor of the Special Issue "Privacy and Security in Machine Learning" of Machine Learning and Knowledge Extraction, ISSN (year 2018) 2504-4990, MDPI

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## **CONFERENCE CHAIR**

PC co-chair of ITASEC 2023 -- the Italian Conference on Cybersecurity

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General Chair of the conference ARES 2017 – 12th International Conference on Availability, Reliability and Security

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PC chair of the IFIP conference CD-ARES 2016

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PC chair of the workshop FARES (from 2017 to 2022) 17th International Workshop on Frontiers in Availability, Reliability and Security

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Track chair of Distributed Ledger Technologies-Blockchain in IDEAS 2019 – 23rd International Database Engineering & Applications Symposium

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PC chair of ECWEB 2009 – the 10th International Conference on Electronic Commerce and Web Technologies

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PC chair of ECWEB 2010 – the 11th International Conference on Electronic Commerce and Web Technologies

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## **PC MEMBER (MAIN)**

EDBT 2024 - 27th International Conference on Extending Database Technology

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SECURITY 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022 – International Conference on Security and Cryptography

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CIKM 2018, 2019, 2020, 2021, 2022 – ACM, International Conference on Information and Knowledge Management

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ARES 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023 – The International Conference on Availability, Reliability and Security (also member of the Steering Committee of ARES)

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IDEAS 2020, 2021, 2022, 2023 - the International Database Engineering & Applications Symposium

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EGOVIS 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022 – International Conference on Electronic Government and the Information Systems Perspective

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EISA 2021, 2022 -- International Conference on Emerging Information Security and Applications

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ICISSP 2017, 2018, 2019, 2020, 2021, 2022, 2023 – Int. Conf. on Information Systems Security and Privacy

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CW 2019, 2020, 2021, 2022 -- International Conference on Cyberworlds

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EDCC 2019 – 15th European Dependable Computing Conference

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IJCAI 2009 – Twenty-first International Joint Conferences on Artificial Intelligence

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ICPS 2009 – the ACM International Conference on Pervasive Services

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## **OTHER INFORMATION**

Currently member of a national commission for the definition of the National Research Program (PNR) 2020-2027 in the area of cybersecurity

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Research consultant for the National Research Center (CNR) Institute ICAR, placed in Naples, Cosenza and Palermo (1997-2000)

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Member of some working groups of ECSO (The European Cyber Security Organisation)

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Member of the Scientific Committee of the SERICS Foundation (Hub of the Extended Partnership PNRR)

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Member of IEEE Society

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Impact on the society

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Prof. Buccafurri developed, in collaboration, some researches about digital signature which, for their impact have influenced the revision of the Italian technical rules on digital signature (Prime Minister Decree of 22 February 2013)

09/2022

## **Keynote Speaker**

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Keynot speaker at the Applied Intelligence and Informatics (AII) Conference (<https://aai2022.org/index.php>),  
Proc. published in [Springer-Nature Communications in Computer and Information Science series](#).

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*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 , 14/12/2022