Florenc **Demrozi**

PH.D. IN COMPUTER SCIENCE · ASSOCIATE PROFESSOR

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"Run towards the future without forgetting the past"
"Vrapo drejt se ardhmes duke mos harrua kurrë të kaluarën"

Personal data

Name	Florenc
Surname	Demrozi
Place of birth	Durres, Albania
Date of Birth	27 May 1991
Nationalities	Albanian, Italian
ORCID	0000-0002-5422-9826

Summary

I am currently an **Associate Professor** in Biomedical Engineering at the Department of Electrical Engineering and Computer Science, University i Stavanger, Norway, working on Machine Learning, Data Analytics, Human Activity Recognition (HAR), Ambient Assisted Living (AAL), and Internet of Medical Things (IoMT). I obtained my Ph.D. in Computer Science in May 2020 supervised by Prof. Graziano Pravadelli, with a thesis on "An IoT based Virtual Coaching System for Assisting Activities of Daily Life". Previously, I received my Master's degree (M.Sc.) in Computer Science and Engineering at the University of Verona in 2016 with a thesis on Automatic generation of self-adaptive transactors from PSL assertions under the supervision of Prof. Graziano Pravadelli. I received my Bachelor's degree (B.Sc.) in Computer Science at the University of Verona in 2014. From April 2021, I **co-founded** the IoT for Care (IoT4Care) research group at the Department of Computer Science, University of Verona, Italy. The IoT4Care group focuses on developing Virtual Coaching Systems, based on IoT infrastructure and Extended Mind concept, whose primary purpose is to help people with special needs in carrying out Activities of Daily Life (ADL's).

Employment positions

Department of Electrical Engineering and Computer Science, University i Stavanger, Norway
Stavanger, Norway

ASSOCIATE PROFESSOR IN BIOMEDICAL ENGINEERING
October 2022 - Present

Key research areas: Biomedical Engineering, Human Activity Recognition (HAR), Ambient Intelligence (AmI), Ambient Assisted Living (AAL), and Internet of Medical Things (IoMT)

Department of Computer Science, University of Verona, Italy
Verona, Italy

POSTDOCTORAL RESEARCH FELLOW
May 2020 - September 2022

Key research areas: Human Activity Recognition (HAR), Ambient Intelligence (AmI), Ambient Assisted Living (AAL), and Internet of Medical Things (IoMT)

Faculty of Computer Science, TU Chemnitz, Germany
Chemnitz, Germany

VISITING RESEARCH FELLOW
October 2021 - March 2022

Key research areas: Human Activity Recognition (HAR) based on radio signal propagation pattern.

Teaching activities

Department of Electrical Engineering and Computer Science
University i Stavanger, Norway

TEACHING
Academic year 2022-2023

Course Name: Sensors and Measurements
Number of course credits: 10 of 10 (104 Hours)
Bachelor degree: Medical Systems
Number of students: 50
Language of instruction: English

Department of Computer Science and Information Systems
University of Limerick, Ireland

TEACHING
Academic year 2022-2023

Course Name: Data analytics: From the source to the intelligence
Number hours credits: 55.5 Hours
Bachelor/Master degree: Immersive Software Engineering
Number of students: 25
Language of instruction: English

Ph.D. School, University of Verona, Italy *Verona, Italy*

Teaching *Academic year 2022-2023*

Course Name: A practical interdisciplinary Ph.D. course on exploratory data analysis
Number of course credits: 5 of 5 (16 Hours)
Ph.D. Programs: Computer Science, Neuroscience and Biotechnology, Biomolecular Medicine, Life and health science, and Inflammation, Immunity and Cancer
Number of Ph.D. students: 32
Language of instruction: English

Past teaching activities

Department of Computer Science, University of Verona, Italy *Verona, Italy*

Teaching *Academic year 2021-2022*

Course Name: Operating Systems: Laboratory: Theory module
Number of course credits: 2 of 12 (24 Hours)
Bachelor Degree Computer Science
Number of students: 245
Language of instruction: Italian

Ph.D. School, University of Verona, Italy *Verona, Italy*

Teaching *Academic year 2021-2022*

Course Name: A practical interdisciplinary Ph.D. course on exploratory data analysis
Number of course credits: 3 of 5 (12 Hours)
Ph.D. Programs: Computer Science, Neuroscience and Biotechnology, Biomolecular Medicine, Life and health science, and Inflammation, Immunity and Cancer
Number of Ph.D. students: 35
Language of instruction: English

Department of Computer Science, University of Verona, Italy *Verona, Italy*

Teaching *Academic year 2020-2021*

Course Name: Operating Systems: Laboratory: Theory module
Number of course credits: 2 of 12 (24 Hours)
Bachelor Degree Computer Science
Number of students: 255
Language of instruction: Italian

Department of Computer Science, University of Verona, Italy *Verona, Italy*

Teaching *Academic year 2020-2021*

Course Name: Operating Systems: Laboratory: Practice Module
Number of course credits: 2 of 12 (24 Hours)
Bachelor Degree Computer Science
Number of students: 255
Language of instruction: Italian

Other teaching experience

Department of Computer Science, University of Verona, Italy *Verona, Italy*

Teaching (guest) (8 hours) *Academic year 2020-2021*

Course Name: Embedded Operating Systems
Master Degree: Computer Engineering for Robotics and Smart Industry
Language: English

Department of Computer Science, University of Verona, Italy *Verona, Italy*

Teaching (guest) (8 hours) *Academic year 2019-2020*

Course Name: Advanced Operating Systems
Master Degree: Computer Science and Engineering
Language of instruction: Italian

Department of Computer Science, University of Verona, Italy *Verona, Italy*

Teaching Assistant (24 hours) *Academic year 2018-2019*

Course Name: Advanced Operating Systems
Disciplinary sector: ING-INF/05 - Information Processing Systems
Language of instruction: Italian

Department of Computer Science, University of Verona, Italy

Teaching Assistant (48 hours per year)

Course Name: Operating Systems
Disciplinary sector: ING-INF/05 - Information Processing Systems
Language of instruction: Italian

Department of Computer Science, University of Verona

Research scholarship

Supervisor: Prof. Matteo Cristani
Activity: Design of an architecture based on IoT devices (e.g., Single Board Computer (SBC), Single Board Micro-controller (SBM)) aiming to facilitate the controllability and observability of industrial plants from a remote web-app application. Specifically, we defined an approach to implement the control strategy of industrial plants through Extended Finite State Machines (EFSMs).

Education

University of Verona, Italy

Ph.D. in Computer Science

Key research areas: Human Activity Recognition (HAR), Ambient Intelligence (AmI), Ambient Assisted Living (AAL) and Internet of Medical Things (IoMT)
Title of the thesis: An IoT based Virtual Coaching System for Assisting Activities of Daily Life
Graduation date: 04/05/2020
Advisior: Prof. Graziano Pravadelli

University of Verona, Italy

M.S. in Computer Science and Engineering

Degree: LM-32 - Master Degree in Computer Science and Engineering
Title of the thesis: Automatic generation of self-adaptive TLM protocols from PSL assertions
Supervisor: Prof. Graziano Pravadelli
Graduation date: 17/03/2016
Grade: 110/110 cum laude

University of Verona, Italy

B.S. in Computer Science

Degree: Degree: L-31 - Bachelor Degree in Computer Science
Title of the thesis: Graphical User Interface for TestBench Specification Language (TSL) Generators
Supervisor: Prof. Graziano Pravadelli
Graduation date: 19/03/2014
Grade: 95/110

Visiting experiences

University of Limerick, Dept. of Computer Science and Information Systems, Ireland

AWS Fellowship

Host: Prof. Tiziana Margaria. Full professor and Chair of Software Systems at the Dept. of Computer Science and Information Systems at the University of Limerick.
This visiting period was founded by the AWS fellowship program related to the Immersive Software Engineering study program.

TU Chemnitz, Faculty of Computer Science, Germany

Founded Visiting Post-Doc

Host: Jun. Prof. Dr. Philipp Kindt. Assistant professor at the TU Chemnitz, Faculty of Computer Science, chair of Pervasive Computing Systems.
This visiting period was founded by the internationalization program of TUC with 12000 euros.

Department of Biomedical Engineering (BME) at University of Florida, United States

Visiting Ph.D. Student

Supervisor: Prof. Parisa Rashidi. Associate professor at the J. Crayton Pruitt Family Department of Biomedical Engineering (BME) at University of Florida (UF). She is also affiliated with the Electrical & Computer Engineering (ECE), as well as Computer & Information Science & Engineering (CISE) departments. She is the director of the "Intelligent Health Lab" (i-Heal). Her research aims to bridge the gap between machine learning and patient care.
This visiting period concluded with the publication of a conference article [**C6**] and a journal article [**J2**].

Summer Schools

Lipari School on Computational Complex and Social Systems - Cities of citizens: biosensors, social modeling and participatory computing Participant		*Lipari Island, Italy* *July 16-22, 2017*
Summer School on Formal Methods for Cyber-Physical Systems: Automatic Synthesis of Controllers for Hybrid Systems Participant		*Verona, Italy* *September 12-17, 2017*
Designing Cyber-Physical Systems From concepts to implementation Participant		*Alghero, Italy* *September 23-27, 2017*
School on Emerging Technologies for Design and Engineering of Electronics Systems Participant		*Verona, Italy* *October 5-7, 2017*
Summer School on Formal Methods for Cyber-Physical Systems Participant		*Verona, Italy* *June 3-7, 2019*

Scientific publications

Journals

2019 [J1]	**Demrozi F., Bacchin R., Tamburin S., Cristani M., Pravadelli G.,** Towards a wearable system for predicting the freezing of gait in people affected by Parkinson's disease. IEEE journal of biomedical and health informatics. 2019 Nov 11.	*Online*
2020 [J2]	**Demrozi F., G. Pravadelli., A. Bihorac., and P. Rashidi.,** "Human Activity Recognition Using Inertial, Physiological and Environmental Sensors: A Comprehensive Survey," in IEEE Access, vol. 8, pp. 210816-210836, 2020.	*Online*
2021 [J3]	**Demrozi F., Chiarani, F., Turetta, C., Kindt, H. P., and Pravadelli, G.,** "Estimating indoor occupancy through low-cost BLE-based devices", IEEE Sensors Journal.	*Online*
2022 [J4]	**Mantovani E.,** Demrozi F., **Hertz L. D., Turetta C., Ferro O., Argyriou A. A., Pravadelli G., and Tamburin S.,** Wearable, sensors, and smart devices for the detection and monitoring of chemotherapy-induced peripheral neurotoxicity: systematic review and directions for future research. Journal of the Peripheral Nervous System.	*Online*
2023 [J5]	**Cesari P., Cristani M.,** Demrozi F., **Pascucci F., Picotti P., Pravadelli G., Tomazzoli C., Turetta C., Chekole Workneh T., and Zenti L.,** owards Posture and Gait Evaluation through Wearable-Based Biofeedback Technologies. Electronics 12, no. 3 (2023): 644.	*Online*
2022 [J6]	**Demrozi F., Turetta C., Bacchin R., Tamburin S., and Pravadelli P.,** A low-cost Wireless Body Area Network for Human Activity Recognition in Healthy Life and Medical Applications. IEEE Transactions on Emerging Topics in Computing.	*Online*

Conferences

2016 [C1]	**Demrozi F., Pravadelli G., and Stefanni F.,** Automatic generation of self-adaptive transactors from PSL assertions. In 2016 IEEE Forum on Specification and Design Languages (FDL) (pp. 1-7).	*Bremen, Germany*
2017 [C2]	**Demrozi F., Zucchelli R., and Pravadelli G.,** Exploiting sub-graph isomorphism and probabilistic neural networks for the detection of hardware Trojans at RTL. In 2017 IEEE International High Level Design Validation and Test Workshop (HLDVT) (pp. 67-73).	*Santa Cruz, CA, USA*
2018 [C3]	**Cristani M.,** Demrozi F., **and Tomazzoli C.,** ONTO-PLC: An ontology-driven methodology for converting PLC industrial plants to IoT. Procedia Computer Science, 126, pp.527-536.	*Belgrade, Serbia*
2018 [C4]	**Demrozi F., Costa K., Tramarin F., Pravadelli G.,** A graph-based approach for mobile localization exploiting real and virtual landmarks. In2018 IFIP/IEEE International Conference on Very Large Scale Integration (VLSI-SoC) 2018 Oct 8 (pp. 249-254).	*Verona, Italy*
2019 [C5]	**Demrozi F., Bragoi V., Tramarin F., Pravadelli G.,** An indoor localization system to detect areas causing the freezing of gait in Parkinsonians. In 2019 ACM/IEEE Design, Automation & Test in Europe Conference & Exhibition (DATE) 2019 Mar 25 (pp. 952-955).	*Florence, Italy*
2020 [C6]	**Demrozi F., Pravadelli G., Tighe P.J., Bihorac A. and Rashidi P.,** Joint Distribution and Transitions of Pain and Activity in Critically Ill Patients, Accepted for publication at IEEE Engineering in Medicine and Biology Society (EMBC)	*Montréal, Canada*

2021 [C7]	**Demrozi F., Chiarani F., and Pravadelli G.,** A low-cost BLE-based distance estimation, occupancy detection and counting system. In 2021 ACM/IEEE Design, Automation & Test in Europe Conference & Exhibition (DATE).	*Grenoble, France*
2021 [C8]	**Demrozi F., Jereghi M., and Pravadelli G.,** Towards the Automatization of the Data Annotation Phase in Human Activity Recognition Based on Wearable Devices and BLE Beacons. In 2021 IEEE INERTIAL.	*Hawaii, USA*
2021 [C9]	**Demrozi F., Serlonghi N., Turetta C., Pravadelli C,. and Pravadelli G.,** Exploiting BLE smart tags for virtual coaching. In 2021 IEEE World Forum on Internet of Things	*New Orleans, USA*
2022 [C10]	**Turetta C., <u>Demrozi F.</u>, Kindt P. H., Masrur A., and Pravadelli G.,** Practical identity recognition using WiFi's Channel State Information. In 2022 ACM/IEEE Design, Automation & Test in Europe Conference & Exhibition (DATE).	*Antwerp, Belgium*
2022 [C11]	**Turetta C. <u>Demrozi F.</u>, and Pravadelli G.,** A freely available system for human activity recognition based on a low-cost body area network. In 2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC), pp. 395-400. IEEE, 2022.	*Turin, Italy*
2022 [C12]	**Bissoli L., Bonacina D., Dalla Riva N, <u>Demrozi F.</u>, Jereghi M., Marchiotto N., Perbellini G., Pernice B., Pizzocaro E., Pravadelli G., Recchia G., Sacerdoti A., Turetta C.,** A virtual coaching platform to support therapy compliance in obesity. In 2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC), pp. 694-699. IEEE, 2022.	*Turin, Italy*
2022 [C13]	**Demrozi F., and Pravadelli G.,** SHPIA: a low-cost multi-purpose Smart Home Platform for Intelligent Applications. IFIP International Internet of Things Conference. Springer, Cham, 2022. **Best paper candidate.**	*Amsterdam, The Netherlands*
2022 [C14]	**Turetta C., <u>Demrozi F.</u>, Pravadelli G., Masrur A., and Kindt. H. P.,** Room Occupancy Detection using WiFi CSI. In 2022 IEEE International Conference on Sensing, Communication and Networking (SECON)	*Virtual Conference*
2022 [C15]	**Boldo M., Bombieri N., Centomo S., De Marchi M., <u>Demrozi F.</u>, Pravadelli G., Quaglia D., and Turetta C.,** Integrating wearable and camera based monitoring in the digital twin for safety assessment in the Industry 4.0 era. International Symposium On Leveraging Applications of Formal Methods, Verification and Validation	*Rhodes, Greece*
2023 [C16]	**Turetta C., Skenderi G., Capogrosso L., <u>Demrozi F.</u>, Kindt P. H., Masrur A., Fummi F., Cristani M., and Pravadelli G.,** Towards deep learning-based occupancy detection via WiFi sensing in unconstrained environments. In 2023 ACM/IEEE Design, Automation & Test in Europe Conference & Exhibition (DATE).	*Antwerp, Belgium*
2023 [C17]	**Demrozi F., Marchisio M, Margaria T., and Sacchet M.,** Experiences from the first delivery of a new immersive software engineering course: mathematical foundations and data analytics. To appear In 2023 IEEE 47th Annual Computers, Software, and Applications Conference (COMPSAC), pp. xxx-xxx. IEEE, 2023	*Turing, Italy*
2023 [C18]	**Turetta C., <u>Demrozi F.</u>, Franceschi S., Zamboni D., and Pravadelli G.,** Non-Invasive Monitoring of Alzheimer's patients through WiFi Channel State Information. To appeat In 2023 IEEE 9th international workshop on advances in sensors and interfaces (IWASI), pp. xxx-xxx. IEEE, 2023.	*Bari, Italy*
2023 [C19]	**Singh A., Margaria T., and <u>Demrozi F.</u>,** CNN-based Human Activity Recognition on Edge Computing Devices. In 2023 International Conference on Omni-layer Intelligent Systems (COINS), pp. X-X. IEEE, 2023.	*Berlin, GER*
2023 [C20]	**Pravadelli G., Turetta C., and <u>Demrozi F.</u>,** Fostering Human Activity Recognition Workflows: An Open-Source Baseline Framework. In Proceedings of the 2023 IEEE World Congress on Services, pp. x-x. 2023.	*Chicago, USA*

EDITORIALS/BOOKS

2023 [B1]	**Demrozi F., Borzì L., and Olmo G.,** Wearable Sensors for Supporting Diagnosis, Prognosis, and Monitoring of Neurodegenerative Diseases. MDPI Electronics.	*Online*

Under scientific review publications

JOURNALS

2022 [J7]	**Demrozi F., Turetta C., and Pravadelli G.,** B-HAR: a Baseline framework for in depth study of Human Activity Recognition data. Under review process at IEEE Internet of Things Journal.	*Online*
2022 [J8]	**Demrozi F., Turetta C., and Pravadelli G.,** SHPIA 2.0: An easily scalable, low-cost, multi-purpose Smart Home Platform for Intelligent Applications. Under review process at SN Computer Science.	*Online*
2023 [J9]	**Kindt P.H., <u>Demrozi F.</u>, Turetta C., Masrur A., Pravadelli G., and Chakraborty S.,** WifEye – Seeing Over WiFi Made Accessible. Under review process at IEEE Sensors.	*Online*
2023 [J10]	**Demrozi F., Turetta C., Masrur A., Schmidhammer M., Gentner C., S. Chakraborty., Pravadelli G., and P.H. Kindt.,** A Dataset on CSI-Based Activity Recognition in Real-World Environments. Under review process at IEEE Sensors.	*Online*

CONFERENCES

2023 [C21] **P.H. Kindt., <u>Demrozi F.</u>, A. Masrur., and S. Chakraborty.,** Ciao: Neighbor Discovery in a Crowd. —

2023 [C22] **P.H. Kindt., <u>Demrozi F.</u>, A. Masrur., and S. Chakraborty.,** Ahoi: Optimal Asymmetric Neighbor Discovery. —

Editorials/Books

2023 [B2] **Demrozi F., Al Machot F., Ullah H., and Kyamakya K.,** Recent advances in Machine Learning techniques and Sensor applications for Human Emotion, Activity Recognition and Support. Springer Studies in Computational Intelligence: Book Series. *Online*

Competitions

International

2019 **Ph.D. Thesis Proposal,** Finalist at ACM Student Research Competition collocated with International Conference on Hardware/Software Codesign and System Synthesis (CODES+ISSS) *New York, USA*

2018 **ICT for Families (IFs) ,** Project Leader, Italian Semifinals of the Global Social Venture Competition (GSVC) *Milan, Italy*

National

2019 **BipBip,** Co-Pi, First Place European Social Fund (ESF) – Veneto Region *Padua, Italy*

2017 **ICT for Families (IFs) ,** Project Leader, Best Social Innovation Project in Italy at National Innovation Award competition *Naples, Italy*

2017 **ADA,** Co-Pi, Finalist Veneto Start-Cup *Verona, Italy*

Presentations

IFIP/IEEE International Conference on Very Large Scale Integration-SoC (VLSI-SoC) *Verona, Italy*

Presenter *October 2018*

Article: A graph-based approach for mobile localization exploiting real and virtual landmarks
Ph.D Forum: An IoT based Virtual Coaching System (VSC) for Assisting Activities of Daily Life

ACM/IEEE Design, Automation & Test in Europe Conference & Exhibition (DATE) *Florence, Italy*

Presenter *March 2019*

Article: An indoor localization system to detect areas causing the freezing of gait in Parkinsonians

ACM/IEEE International Conference on Hardware/Software Codesign and System Synthesis (CODES+ISSS) *New York, USA*

Presenter *October 2019*

Ph.D. Forum: An IoT based Virtual Coaching System (VSC) for Assisting Activities of Daily Life
ACM Competition: An IoT based Virtual Coaching System (VSC) for Assisting Activities of Daily Life

IEEE Engineering in Medicine and Biology Society (EMBC) *Montreal, Canada*

Virtual Presenter *July 2020*

Article: Joint Distribution and Transitions of Pain and Activity in Critically Ill Patients

ACM/IEEE Design, Automation & Test in Europe Conference & Exhibition (DATE) *Grenoble, France*

Virtual Presenter *February 2021*

Article: A low-cost BLE-based distance estimation, occupancy detection and counting system

IEEE INERTIAL *Hawaii, USA*

Virtual Presenter *March 2021*

Article: Towards the Automatization of the Data Annotation Phase in Human Activity Recognition Based on Wearable Devices and BLE Beacons

IEEE 7th World Forum on Internet of Things *New Orleanse, USA*

Virtual Presenter *June 2021*

Article: Exploiting BLE smart tags for virtual coaching

IEEE 45-th annual Computer Software and Applications Conference (COMPSAC) *Turin, Italy*

Virtual Presenter *June 2022*

Article: A freely available system for human activity recognition based on a low-cost body area network

Biennial conference Gruppo Nazionale per il Calcolo Scientifico (GNCS) *Montecatini Terme, Italy*

Presenter *June 2022*

Project: A pervasive and low-cost IoT architecture for virtual coaching in Activities of Daily Life

Demo Presentations

Workshop Nazionale per il Trasferimento Tecnologico e l'Alta Formazione (ESSM) *Verona, Italy*

PRESENTER *June 2022*

Demo: Pervasive monitoring through wearable devices in industrial context

Scientific divulgation

Tech Night: Sensor technology, organized by Stavanger Chamber of Commerce *Stavanger, Norway*

INVITED SPEAKER *November 8, 2022*

Sensors-based Virtual coaching systems: a university research perspective (link)

Professional forum on safety and sensors *Stavanger, Norway*

INVITED SPEAKER *December 7, 2022*

Trends and experiences from sensor development (link)

National competence network for movement disorders, Stavanger University Hospital *Stavanger, Norway*

INVITED SPEAKER *April 21, 2023*

The Synergy of Artificial Intelligence of Things (AIoT) and Sensor Technology in Human Activity Recognition for Personalized Healthcare

Invited Speaker

R@ISE Spring Conference *Limerick, Ireland*

INVITED SPEAKER *April 4, 2023*

The Power of Sensors: Recognizing Human Activity in Daily Life

Seminars

Research group of Prod. Tiziana Margaria *Limerick, Ireland*

INVITED SPEAKER *February 28, 2023*

Preparing a Systematic Review: Protocols and Tools

National Competence Service for Movement Disorders (NKB) *Stavanger, Norway*

INVITED SPEAKER *May 12, 2023*

The Synergy of Artificial Intelligence of Things (AIoT) and Sensor Technology in Human Activity Recognition (HAR) for Personalized Healthcare

Reviewer

Program Committee Member

2020- Present

IFIP/IEEE Forum on specification & Design Languages, 15 - 17 September, 2020, Kiel, Germany
IFIP/IEEE Forum on specification & Design Languages, 8 - 10 September, 2021, Antibes, France
IFIP/IEEE Forum on specification & Design Languages, 14 - 16 September, 2022, Linz, Austria
SAI Intelligent Systems Conference (IntelliSys), 1-2 September 2022, Amsterdam, Netherlands
IEEE International Conference on Digital Health (ICDH), 2-7 July 2023, Chicago, Illinois, USA
International Conference on the Engineering of Computer-based Systems (ECBS), 16-18 October 2023, Mälardalen, Sweden

Reviewer

2020- Present

IEEE Transactions on Emerging Topics in Computing (**TETC**), IEEE Transactions on Instrumentation and Measurement (**TIM**), IEEE Access, IEEE Sensors, ACM Transactions on Embedded Computing Systems (**TECS**), MDPI Sensors, MDPI Applied Sciences, MDPI Electronics, MDPI Mathematics, MDPI Healthcare, Elsevier Engineering Applications of Artificial Intelligence (**EAAI**), Pattern Recognition, MDPI International Journal of Environmental Research and Public Health, Emerald Sensors, Frontiers in Physiology, Healthcare Analytics, IT Professional, Ecological Informatics, POLSE ONE

Secondary Reviewer

October 2016 - Present

IFIP/IEEE Forum on specification & Design Languages (**FDL**)
ACM/IEEE Design, Automation & Testin Europe Conference & Exhibition (**DATE**)
ACM/IEEE International Conference on Hardware/Software Codesign and System Synthesis (**CODES+ISSS**)
IFIP/IEEE International Conference on Very Large Scale Integration - System on a Chip (**VLSI-SOC**)
IEEE International Conference on VLSI Design and Embedded Systems (**VLSID & ES**)

Committee Bodies Member

May 2023	**Member of the hiring committee for Ph.D. positon on Explainable AI (XAI),** Department of Electrical Engineering and Computer Science, University of Stavanger	*Stavanger, Norway*
December 2022	**Member of the hiring committee for Ph.D. positon on Cybernetics,** Department of Electrical Engineering and Computer Science, University of Stavanger	*Stavanger, Norway*
2022-2023	**Member of the Didactic College,** Department of Electrical Engineering and Computer Science, University of Stavanger	*Stavanger, Norway*
2021-2022	**Member of the Didactic College,** Department of Computer Science, University of Verona	*Verona, Italy*
2020-2021	**Member of the Didactic College,** Department of Computer Science, University of Verona	*Verona, Italy*

International Ph.D. Committee Member

January 2023	**Luigi Borzì, Ph.D. Thesis "Wearable sensors and artificial intelligence for monitoring of Parkinson's disease",** Department of Control and Computer Engineering, Politecnico di Torino	*Turin, Italy*

Organizing Committee Member

2018	**Local Arrangement Committee,** 1st PhD School on Emerging Technologies for Design and Engineering of Electronics Systems (SCHEME), October 5 - 7	*Verona, Italy*
2018	**Web Chair,** IFIP/IEEE International Conference on Very Large Scale Integration-System on a Chip (VLSI-SoC), October 8 - 10	*Verona, Italy*
2018	**Local Arrangement Committee,** IFIP/IEEE International Conference on Very Large Scale Integration-System on a Chip (VLSI-SoC), October 8 - 10	*Verona, Italy*
2018	**Local Arrangement Committee,** ACM/IEEE Design, Automation & Test in Europe Conference & Exhibition (DATE) TPC meeting, October 28 - 29	*Florence, Italy*
2019	**Web Chair,** IFIP/IEEE Forum on specification & Design Languages (FDL), September 2 - 4	*Southampton, United Kingdom*
2020	**Web Chair,** IFIP/IEEE Forum on specification & Design Languages (FDL), September 15 - 17	*Kiel, Germany*
2021	**Web Chair,** IFIP/IEEE Forum on specification & Design Languages (FDL), September 8 - 10	*Antibes, France*
2022	**Guest Editor,** Special Session on Wearable sensors for supporting diagnosis, prognosis, and monitoring of neurodegenerative diseases	*MDPI Electronics*

Community Member

Member	**April 2023 - Ongoing,** IFIP Working Group 10.5 Design and Engineering of Electronic Systems	*IFIP WG 10.5*
Member	**October 2016-Ongoing,** Institute of Electrical and Electronics Engineers	*IEEE*
Member	**January 2016 - January 2023,** Gruppo Nazionale per il Calcolo Scientifico	*GNCS*

Proposal Writing

I have been regularly involved in writing proposals to different funding agencies, e.g.,to the Italian Ministry of Education, University and Research (MIUR), the Veneto region European Social Founds (FSE), the Michael J. Fox Foundation (MJFF) for Parkinson's Research, Brain Foundation, CariVerona Foundation, to private companies and other funding institutions.

Moreover, currently my Norwegian Research Council Researcher Project for Young Research Talents (FRIPRO)-"*Smart Monitoring for Parkinson's Therapy: An Internet of Medical Things (IoMT) Approach*" is under review process. Total requested founding 14145000 Nok (1.3 Milion Euro).

Received research grants

6000 Euros from the Internationalization program of University of Verona, Italy *Italy*
FUNDING FOR PH.D. VISITING PERIOD AT UNIVERSITY OF FLORIDA, GAINESVILLE, USA *August-December 2019*

1000 Dollars from ACM SIGBED Student Research Competition at ESWEEK 2019 *New York, USA*
TRAVEL GRANT FOR THE PH.D. THESIS "AN IOT BASED VIRTUAL COACHING FOR ASSISTING ACTIVITIES OF DAILY LIFE" *October 2019*

1500 Euros from the National Group for Scientific Calculation (GNCS) *Italy*
FUNDING FOR YOUNG RESEARCHERS 2020 - 2021 *2020-2021*

12000 Euros from the Internationalization program TU Chemnitz, Faculty of Computer Science

FUNDING FOR POST-DOC VISITING RESEARCHER. PROJECT: HUMAN ACTIVITY RECOGNITION (HAR) BASED ON RADIO SIGNAL PROPAGATION PATTERN

Germany

October 2021-March 2022

10000 Euros from AWS Fellowship, University of Limerick, Dept. of Computer Science and Information Systems, Limerick

AWS FELLOWSHIP.

Ireland

January 2023-March 2023

Referees

Tiziana Margaria	Full Professor, Department of Computer Science and Information Systems, University of Limerick, tiziana.margaria@ul.ie
Graziano Pravadelli	PhD Supervisor, Full Professor, Department of Computer Science at University of Verona, graziano.pravadelli@univr.it
Stefano Tamburin	Associate Professor, Department of Neurosciences, Biomedicine and Movement at University of Verona, stefano.tamburin@univr.it
Parisa Rashidi	Associate Professor, Department of Biomedical Engineering (BME) at University of Florida, parisa.rashidi@ufl.edu
Alejandro Masrur	Associate Professor, Faculty of Computer Science, TU Chemnitz, a.masrur@cs.tu-chemnitz.de
Federico Fraccaroli	Esq, Founder and President of Wagoo LLC, Texas, USA, federico.fraccaroli@thewagoo.com
Other	Additional referees are available upon request

Projects

ADA: An IoT-based virtual coaching platform for assisting daily life activities of ageing persons with Down syndrome.

RESEARCH ACTIVITY: CO-PI

Funding organization: Piccola Fraternità Onlus (Verona), University of Verona.
Achieved contribution: € 36200

Joint project

2017-2019

Bip-Bip: a wearable smart system to prevent freezing of gait in people affected by Parkinson's disease.

RESEARCH ACTIVITY: CO-PI

Funding organization: European Social Found-Veneto Region
Achieved contribution: € 75500

FSE-Veneto Region

2018-2019

Smart-Pump: Intelligent assistive system to regulate the continuous administration of drugs in Parkinson's patients.

RESEARCH ACTIVITY: CO-PI

Funding organization: European Social Found-Veneto Region
Achieved contribution: € 47100

FSE-Veneto Region

2020-2021

BioFeedback: Study and development of customizable training courses aimed at improving postural quality through parameters suitable for pre-adolescents.

RESEARCH ACTIVITY: CO-PI

Funding organization: European Social Found-Veneto Region
Achieved contribution: € 35000

FSE-Veneto Region

2020-2021

An IoT infrastructure for monitoring motor fluctuations in Parkinson's disease.

RESEARCH ACTIVITY: CO-PI

Funding organization: Brain Research Foundation Verona O.N.L.U.S.
Achieved contribution: € 20000

Verona Brain Foundation

2021-2022

Radio Signal-Based Activity Recognition and Movement Analysis for Parkinson's Disease.

RESEARCH ACTIVITY: PI

Internationalisation program Technische Universität Chemnitz, Germany.
Achieved contribution: € 12000

Technische Universität Chemnitz

2021-2022

Language Skills

Albanian	Native/Bilingual Proficiency
Italian	Native/Bilingual Proficiency
English	Professional Proficiency
Spanish	Limited Working Proficiency

	Understanding		Speaking		Writing
	Listening	Reading	Spoken Interaction	Spoken Production	
English	C2	C2	C1	C1	C1
Spanish	B2	B1	A2	A2	A1

Extracurricular Activity

ICT for Families (IF's) Innovative Startup *Verona, Italy*

PROJECT LEADER *July 2017 - PRESENT*

Winner of the Best Social Innovation Project at PNI Italy 2017

Wagoo Italia s.r.l.s *Verona, Italy*

PROJECT MANAGER *July 2017 - December 2022*

Moramma Project (webpage)

Mentoring activities

Co-Advised	Eleven (11) M.S. Degree Students in Computer Science working on a thesis (or/and stage) project for at least 400 hours.
Co-Advised	Thirty Three (33) B.S. Degree Students in Computer Science and Engineering working on a thesis (or/and stage) project for at least 150 hours.
Co-Advised	Four (4) Scholarship Holders working in average for two years on a specific project.
Co-Advised	Two (2) Ph.D. Student.
Detailed Info	on my web page

Software Skills

Operating Systems	Linux (Debian/Ubuntu/RedHat) Distributions, Windows
Tools	Microsoft Office, Libre Office, Visual Studio, Git
Programming	Python, C, C++, C#, JAVA, Matlab, HDL Languages, BASH, PHP, SQL, LaTeX
Markup Languages	HTML, XHTML, CSS
Work Examples	CISD Website, FDL Website, VLSI-SoC Website, SCHEME Website

I authorize the handling of my personal data according to the Personal Data Protection Code - Legislative Decree n. 196/03.

Approved: _____

Electrical Engineering and Computer Science Department,
University of Stavanger, Norway
May 20, 2023