

PERSONAL INFORMATION **Fabio Salice**

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input checked="" type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

05/2002 - Present

Associate Professor in Computer Engineering

Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano (Italy)

- Research activities in ICT Methods and Algorithms for Health-Related Quality of Life, Internet of Behavioral (IoB) and ML methods to support the independent living of elderly, frail people, and people with mild cognitive impairment, ICT Methods and Algorithms for Concept Drift and Behavioural Drift Analysis.
- Director of AsTech Lab CINI (2021 -present) - Node Coordinator "Politecnico di Milano" of Assistive Technology Lab (AsTech) CINI (2018- present);
- Member of the Reference Council of the Territorial Pole of Como (2014 - present);
- Coordinator of the Course of Studies in COMPUTER ENGINEERING - Master Degree, Bachelor, Bachelor ON LINE - Como Campus (1/01/2011- 31/12/2012)

Academia

09/1998 - 04/2002

Assistant Professor in Computer Science

Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano (Italy)

- Research activities: Design and implementation of reliable HW/SW systems; HW/SW codesign; Low Power SW

Academia

09/1996 – 02/2011

Academic Advisor in the master of Information Technology – area in Computing architecture and operating systems

CEFRIEL (Italy)

- Research and development activities in the fields of: co-designing of hw/sw systems, identification and definition of methods for the reduction and optimization of the energy consumption of the sw, design of solutions based on FPGA

Academia

02/1993 – 07/1993

Visiting Researcher

Computer System Laboratory - Stanford University – California (USA)

- Research activity in the field of logic synthesis and optimizations of FSM.

Academia

- 05/1991 – 10/1991 **Scholarship – SGS-THOMSON**
 SGS-Thomson – Agrate (Italy)
- Implementation of an Hardware Neural Network - National plan for microelectronics for the training of VLSI integrated circuit designers
Industry

EDUCATION AND TRAINING

- 03/1994 **Ph.D in Ingegneria Elettronica e delle Telecomunicazioni (Ph.D. In Electronic and Telecommunication Engineering)**
 Dipartimento di Elettronica e Informazione, Politecnico di Milano, Milano, Italy.
Advisor: Prof. M.G. Sami, Politecnico di Milano, Milano, Italy.
- Main topics: hardware implementation, Feed Forward NN
- 04/1991 **Laurea in Computer Engineering**
 Politecnico di Milano, Milano, Italy; final grade 91/100.
Advisor: Prof. M.G. Sami, Politecnico di Milano, Milano, Italy.
- Main topics: Feed Forward NN, HW architectures for NN

PERSONAL SKILLS

Mother tongue(s)

Other language(s)

Research Interest

- ICT Methods and Algorithms for Health-Related Quality of Life;
- Internet of Behavioral (IoB) and ML methods to support the independent living of elderly, frail people, and people with mild cognitive impairment;
- ICT Methods and Algorithms for Concept Drift and Behavioral Drift Analysis;
- Tools and libraries for distributed and Federated Machine Learning.

Awards

- CISCO 2010 - Outstanding Achievement Award – CISCO;
- Best Paper Award – International Conference on Computer Design (1998);
- Best Paper Award – International Conference on Neural Information Processing (1995);
- Best Poster Paper Awards – International Joint Conference on Neural Networks (1992).

Scientific Activities (selected)

- IEEE Senior Member,
- General Co-chair per Symposium on Defect and Fault Tolerance in VLSI Systems 2011.
- Program Co-chair per Symposium on Defect and Fault Tolerance in VLSI Systems 2010;
- Chair: GOODTECHS (2020-2018), DFT 2010, On-Line Test Symposium 2006, On-Line Test Symposium 2006,
- TPC: IEEE ICDH 2022, GOODTECHS (2020-2017), AAATE 2019, UCAmI2019, DFTS 2015, DFT (2006-2017);
- Member of AAATE - Association for the Advancement of Assistive Technology in Europe.

Technology Transfer and Grant

- Co-Founder of LYOTEH (2021), a Spin-off of Politecnico di Milano, working in the field of ICT for smart care, monitoring solutions for the well-being of frail persons and caregivers. LyoTech S.R.L. is registered in the special section of the register of companies as an INNOVATIVE START-UP.

Scopus Metrics Overview:

- **123 Documents by author; 872 Citations by 689 documents; 17 h-index**

Google Scholar Metrics Overview:

- **1693 citations, 23 h-index, 40 i10-index**

Recent publications:

- [2021] High-efficiency multi-sensor system for chair usage detection, Baserga, A., Grandi, F., Masciadri, A., Comai, S., Salice, F. - *Sensors*, 2021, 21(22), 7580
- [2021] Understanding social behaviour in a health-care facility from localization data: A case study, Bellini, G., Cipriano, M., Comai, S., Rossi, G., Salice, F. - *Sensors*, 2021, 21(6), pp. 1–22, 2147.
- [2021] CESS: Closed environment safety system, Corazza, F., Troisi, F., Comai, S., Masciadri, A., Salice, F., *GoodIT 2021 - Proceedings of the 2021 Conference on Information Technology for Social Good*, 2021, pp. 133–138
- [2020] Monitoring Cooker Activities Using a Grid-EYE Infrared Array Sensor Bafaro, E., Di Bartolo, D., Masciadri, A., Comai, S., Salice, F. *ACM International Conference Proceeding Series*, 2020, pp. 1–5
- [2019] SMARE: Semi-supervised method for activities of daily living recognition Masciadri, A., Comai, S., Salice, F. *Conference Proceedings - IEEE International Conference on Systems, Man and Cybernetics*, 2019, 2019-October, pp. 3403–3409, 8914279
- [2019] Wellness indexes to assess quality of life: A technological support, Masciadri, A., Sacchi, M., Comai, S., Salice, F., *ACM International Conference Proceeding Series*, 2019, pp. 213–218
- [2019] Understanding home inactivity for human behavior anomaly detection, Masciadri, A., Scarantino, C., Comai, S., Salice, F., *ACM International Conference Proceeding Series*, 2019, pp. 90–95
- [2019] Wellness assessment of alzheimer's patients in an instrumented health-care facility Masciadri, A., Comai, S., Salice, F. *Sensors (Switzerland)*, 2019, 19(17), 3658
- [2019] Disseminating synthetic smart home data for advanced applications, Masciadri, A., Veronese, F., Comai, S., Carlini, I., Salice, F., *CEUR Workshop Proceedings*, 2019, 2482
- [2018] Non-invasive monitoring system to detect sitting people, Rosato, D., Comai, S., Masciadri, A., Salice, F., *ACM International Conference Proceeding Series*, 2018, pp. 261–264
- [2018] Supporting Alzheimer's residential care a novel indoor localization system Masciadri, A., Carlini, I., Comai, S., Salice, F. *ICETE 2018 - Proceedings of the 15th International Joint Conference on e-Business and Telecommunications*, 2018, 1, pp. 272–278
- [2018] ALMA: An Indoor Localization and Navigation System for the Elderly, Comai, S., De Bernardi, E., Masciadri, A., ...Salice, F., Veronese, F., *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST*, 2018, 233, pp. 82–91

Projects

Research contracts with companies: > 150 k Euro

Fundraising on competitive projects: > 1 M Euro

[05/2021 – Current] INTELLIGENT RELIABILITY 4.0 (Irel4.0) - H2020 -

has the ultimate goal of improving reliability of electronic components and systems by reducing failure rates along the entire value chain. In iRel40 75 partners from 13 countries will collaborate along the value chain from wafer production to system integration and combine their strength to enhance reliability.

[06/2013 – 12/2015] ADALGISA: LA CASA SICURA, AMICA, SMART – Regione

Lombardia - the project aims to create the necessary conditions to promote the improvement of the quality of life of the people with fragility and their families through an inclusive, parametric, and adaptive technological platform that takes into account both the living and socio-familial-sanitary environments. The goal is to provide new opportunities for communication, interaction, monitoring, and intervention towards the fragile person that goes beyond the spatial limits and that are feasible and cost-effective in the whole regional territory.

[04/2013 – 05/2016] ALMA – AAL Joint Programme- The Alma project tackles the issue of not being able to move autonomously or effectively by combining a set of advanced hardware and software technologies into an integrated and modular system. Alma users will be supported in their mobility to acquire knowledge about interesting locations (e.g., services, people, facilities, etc.), to select and follow an efficient and safe path to such destinations considering their needs and/or limitations or the status of the environment, to present the resources provided by intelligent environments to the users so they can effectively access them with familiar instruments without feeling disoriented or overwhelmed by technology.

International Patents

- EP2747593 - METHOD AND SYSTEM FOR OPTIMISED SELECTION OF FOOTWEAR OR CLOTHING ARTICLES (from 17-08-2012 to now)
- EP2741984 - MONITORING SYSTEM FOR TRANSPORT CHAINS FOR CONVEYORS OF ARTICLES (from 21-02-2013 to now)
- EP2810035 - MONITORING SYSTEM FOR MEASURING SPEED AND ELONGATION OF TRANSPORT CHAINS (from 08-08-2013 to now)

1 luglio 2022