Curriculum Vitae

Marco Sacco
Mob.:
Mail:

Current Positions

Senior Researcher at National Research Council of Italy, Institute of Intelligent Industrial Technologies and Systems for Advanced Manufacturing (CNR-STIIMA)
Research activities in the following fields: Industrial Automation, Advanced tool for Product/Process/Factory Design, Simulation, Virtual and Augmented Reality, Human Machine Interface, Human factor, Semantic Web and Ontology, Big and Semantic Data. Today these technologies represent the base of Factory 4.0 concept.
Moreover, in the last 6 years these expertise and knowledges have been applied to the rehabilitation, healthcare, wellness and domotics fields.

2017-Today : Head of CNR-STIIMA subsidiary in Lecco: Smart Human-Centred Living Environments centre. The centre has been created merging the experience of the Robotics and Virtual Application groups in the field of Physical and cognitive Rehabilitation and Domotics. The centre is researching and developing key technologies (Robotics, Augmented and Virtual Reality, Artificial Intelligence and Semantic Webs) to be applied both to the Factory of the Future able to give value to human knowledge, innovation capability and characteristics and to guarantee inclusivity at all levels (genders, age and ability) as well as to living environments.

2021-Today
Member for CNR in the Steering Committee of the BI REX Consortium, based in Bologna, with a mandate until the natural expiry of the Committee itself.
The BI-REX competence center intends to be a strategic and operational support for companies oriented to the digitalization of industrial processes with a view to Industry 4.0; from design to production, from R&D to Supply Chain, from security to Blockchain.

2001-2019: Manager of the EVA (Enterprise Engineering and Virtual Application) research group. The research group has been founded by the candidate in 1999, but the activities have started in 1994 when he has started to work on Virtual Reality (among the first in Italy). During the 20 years of activities the group has change dimension (between 15 and 25 researchers). Currently the group is split onto three different locations, Milan, Bari and Lecco). The group receives external resources for around 450K€ a year (average of the last 10 years) through research projects and industrial contracts.
Member of the board of the Institute from 2002 to today

2001- 2017: Manager of the Labs on Augmented and Virtual Reality in Milano (50m2), Bari (16 m2) and Lecco (40 m2). Value of all devices available in the three labs is around 650.000€.
Manager of the IT infrastructure and network of ITIA-CNR since 2005.

- Coordinator of 11 and Manager of 35 International, European, National, Regional and Industrial Projects
- 10 Keynotes, 25 Invited lecturers and Teaching activities
- 11 PhD Thesis and 30+ Graduation Thesis tutorship
- 12 journal referees (59 papers), 4 PhD thesis referee and 50 evaluation committees
- 23 workshop and conference session organisation/chairman/program committee
- 1 Prizes and 3 Acknowledgement

Expert for MISE (Ministry for Economic Development)

2019-today: Review project proposal, call "Fondo per la Crescita Sostenibile - Sportello "Fabbrica Intelligente" PON I&C 2014-2020", Prog. n. F/190191/01-02/X44

President of EuroXR (European Association of eXtended Realities) former EuroVR

> **2016 - today** : President of EuroXR (European Association of eXtended Reality) Rue du Trone 98, 1050 - Brussels. C/O CNR office. Association chairman, Signature power, ultimate decision maker. The association has currently 60 members among which Companies, University and Research Centres.

> **2012 -2015:** Member of EuroVR Executive Committee di EUROVR and Accountant for the association Decision making Panel, Administrative aspects, Signature power

Past Working Experiences

Expert for Marche Region:

> **2018-2019:** Review project proposal "SOSTEGNO ALLO SVILUPPO DI PIATTAFORME TECNOLOGICHE DI RICERCA COLLABORATIVA, SVILUPPO ED INNOVAZIONE NEGLI AMBITI DELLA SPECIALIZZAZIONE INTELLIGENTE: AREA TEMATICA "ProgeCazione integrata e user-centered" a valere sul Programma Operativo Regionale (POR) Marche -
> Fondo Europeo di Sviluppo Regionale (FESR) 2014/2020, Asse 1 – OS 2 – Azione 2.1

Member of the board of AITEM (Associazione Italiana Tecnologie Meccaniche)

> **2013-2017:** Member of the board of AITEM (Associazione Italiana Tecnologie Meccaniche). AITEM is the network of Italian University, Research Centres and Companies working on Manufacturing production system. Currently the association has 100+ members. Main role in the board is coordinating the Digital and Virtual manufacturing interest group and managing the association communications.

Expert for European Commission in Framework Program VI, VII, H2020.

> **2013-2017:** Project Technical Assistant (PTA) for the project Use-it-Wisely #FoF.NMP.2013-5-609027 (in VII FP). Project monitoring, analysis of the deliverable and participation the to review meetings.

> **2003-2007:** Expert for European Commission in VI FP in NMP (CT-EX2002B041116-001). Participation at the evaluation of proposals for the call FP6-2002-NMP-1; May 19-23, 2003. Project proposals peer review

> Member of the orientation board of EMIracle (European Manufacturing and Innovation Research Association).

2009-2016: EMIRAcle is an association of 17 leading research laboratories, companies and government institutions in 10 different countries. Their common mission is to act as a collaboration partner for European Product Development Enterprises in Manufacturing and Innovation research, with the goal of maintaining and improving their leading positions worldwide by increasing their productivity and innovation power.

2013-2015. **Member of the scientific board of IMECC** (Innovative Manufacturing Engineering Systems Competence Centre) of Technical University of Tallinn. Evaluation of the Centre scientific activities and review of internal projects.

2007-2010: CNR representative and member of the board at Franco-Italian Association for Industrial Research and Technology – **AFIRIT**- from 02/11/2007 al 31/12/2010. Coordination of contribution and management of CNR participation to the association. Responsible for some dissemination activities.

1998-1999: Expert and participation to the **NIAG** (NATO Industrial Advisory Group) meeting on VVA (Virtual Environment and Virtual Prototype). From 19/10/1998 to 22/01/1999 –(Ministry of Defence, Procurement Executive, Director Naval Architecture, NA512a, Rowan #95, Abbey Wood, Bristol BS34 8JH, UK). Participation to NATO NG6 NIAG Workshop on VV&A in Washington D.C. (19-22.10.1998) and to NATO NG6 ST - SBDVP Workshop on VV&A in Brussels (20-22.01.1999).

1993-1996: Manager of EUREKA "TIMESHARE" e BRITE-EURAM "ROBOTOOL" projects for Technology Transfer System Srl. Both projects were dealing with the use of simulations and virtual reality for training purpose and for robot programming respectively.

1993 - 1996 : Founder of **Technology Transfer System** Srl. Process modelling and simulation for the companies. Registered in Lecco n. 240.299 on 01.11.1993. The company is still on the market and has around 20 collaborators.

Education and Courses

Master's Degree in Computer Science at Facoltà MM. FF. NN, Università degli Studi di Milano, Milano, 25.10.1993. Vote: 105/110.

Title: 3D graphical simulation and discrete event simulation: design and optimisation of an automatic and flexible assembly pilot plant for air-conditioning system battery.

Management for EPR_Modulo II "Soft Skill"(Roma, 26-27 febbraio 2015), SUM -Scuola di Management per le Università, gli Enti di Ricerca e le Istituzioni Scolastiche MIP School of Management - Politecnico di Milano.

Publications

He has 180+ publications (109 SCOPUS certified), including papers in academic journals and conference proceedings on the following topics: Virtual & Augmented Reality, Applied Robotic, Semantic Web & Ontology, Simulation and Training. H-Index: 17

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art. 13 GDPR 679/16.

June 11   th, 2021   Marco Sacco