Mariacarla Staffa

Curriculum Vitae

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Personal information

first name	Mariacarla
last name	Staffa
place and date of birth	Naples (Italy), 27 January 1981
nationality	Italian
scientific sector	$01/B1$ - Computer Science; $09/H1$ Computer Engineering

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Current Position

from December 2017-present	**Assistant Professor (RTD-A art. 24 c.3-a L. 240/10)** , *at the Department of Physics E. Pancini (Dip. L.240/2010 Fisica)*, University of Naples Federico II, C.so Umberto I, 40, Naples Italy.

National Scientific Qualification

	Associate Professor, *She obtained the qualification for the role of II level Professor in the following sectors:*.
since January 2020	**Competition Sector: 01/B1 - Computer Science**, *Scientific Disciplinary Sector: INF/01*, validity: from 14/01/2020 to 14/01/2029.
since January 2020	**Competition Sector: 09/H1 - Computer Engineering**, *Scientific Disciplinary Sector: ING-INF/05*, validity: from 16/01/2020 to 16/01/2029.

Education

2011	**Ph.D in Computer Science and Automation Engineering**, *Funded by EU-FP7 project DEXMART (DEXterous and autonomous dual-arm hand robotic manipulation with sMART sensory-motor skills: A bridge from natural to artificial cognition) -www.dexmart.eu.* PhD Thesis Title: "Attentional Mechanism for Sensory-motor Coordination in Behavior-based Robotic Systems" Supervisor Prof. Bruno Siciliano
2008	**Master Degree in Computer Science (Grade** $110/110$ **cum laude)**. Master Thesis Title: "Controllo di un Sistema Robotico basato sull'attivazione adattiva e periodica del sistema percettivo" Supervisor: Prof. Ernesto Burattini
2004	**Bachelor Degree in Computer Science (Grade** $110/110$ **cum laude)**. Bachelor Thesis Title: "Un Agente BDI per il riconoscimento di scene in un mondo a blocchi" Supervisors: Prof. Ernesto Burattini and Prof. Massimo De Gregorio

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Work experience

from December 2017 – present	**Assistant Professor at the Department of Physics E. Pancini, University of Naples Federico II (Naples, Italy)**.

May 2017 – December 2017	**Postdoctoral researcher at the Department of Engineering, University of Naples Parthenope (Naples, Italy)**, *PO CAMPANIA FSE 2014-2020, Project Title: "Monitoraggio Avanzato per la Sicurezza delle Infrastrutture"*. Subject: Design and implementation of Security tools and services for Critical Infrastructures. Supervisors: Prof. Luigi Romano
October 2015 – September 2016	**Postdoctoral researcher at the Department of Engineering, University of Naples Parthenope (Naples, Italy)**, *POR CAMPANIA FSE 2007-2013/2014-2020, Project Title: "Sicurezza per le Smart Cities"* . Subject: Models and algorithms Smart Cities Security. Supervisors: Prof. Maurizio Migliaccio and Prof. Luigi Romano
April 2016	**Teaching Contract (Naples, Italy)**, *Corso di alta formazione eHealthLearn: ICT per la Salute, Autorizzato e Finanziato dal Ministero dell'Istruzione, dell'Universita' e della Ricerca con Decreto Direttoriale n.713/Ric. del 29 ottobre 2010 (Cod.: PON03PE_00128_1). Attivita' formativa del Progetto di Ricerca eHealthNet: Ecosistema software per la Sanita' Elettronica.* Course Title: Tecnologie per il Pervasive eHealth
November 2015 – April 2016	**Technical Consultant (Naples, Italy)**, *Contratto di prestazione d'opera progetto - Situation AWare Security Operations Center (SAWSOC) European Project under the grant n.313034.* Subject: Security Systems. Supervisors: Prof. Luigi Romano,
1 October 2015- 31 December 2015	**Technical/Scientific Consultant (Naples, Italy)**, *TEcnologie e MOdelli per la Tutela degli Ecosistemi Culturali (TEMOTEC) National Project, PON03PE_00098_1.* Activities: Digitalization Techniques; Techniques and tools for data collection.
June 2012 – September 2015	**Postdoctoral researcher at the Department of Electrical Engineering and Information Technology, University of Naples Federico II (Naples, Italy)**, *Involved in the EU-FP7 project SAPHARI Project (Safe and Autonomous Physical Human-Aware Robot Interaction - `www.saphari.eu`).* Subject: Models and algorithms for collaborative activities. Cognitive executive control for a collaborative robot. Learning and Interpretation of Human Activities. Supervisors: Prof. Bruno Siciliano and Prof. Luigi Villani
February 2011 – July 2011	**Internship at ISIR Laboratory (Paris, France)**, *Institute de Système Intelligentes et de Robotique.* Address: 4 Place Jussieu - 75252, Paris cedex 05 , France Title: Biomimetic robotics and computational neurosciences: Development of navigational capabilities in the robot-rat Psikharpax. Supervisor: Prof.ssa Agnès Guillot
October 2010 – February 2011	**Collaboration Contract on DIGIT@UNI Project**, *C.S.I., Università degli Studi di Napoli "Federico II".* Address: Via Mezzocannone, 2 - 80131 (NA) Area: Programma ICT4University - Progetto: DIGIT@UNI: infrastrutture e servizi per il sistema universitario digitale Main activities and responsibilities: Sviluppo della documentazione di ConFirma (tool di gestione della firma digitale), customizzazione e gestione del portale INDICO per l'organizzazione di eventi. Project Leader: Prof. Guido Russo

October 2007 – September 2008	**Collaboration Contract on S.C.O.P.E. Project**, *C.S.I., Università degli Studi di Napoli "Federico II"*. Adress: Via Cintia, Complesso di Monte S'Angelo, (NA) Area: Sviluppo di infrastrutture di supercomputing general-purpose, basate sul paradigma Grid e sulle più moderne tecnologie di calcolo distribuito. Main activities and responsibilities: Sviluppo di software automatici di monitoraggio di sale server per le gestione di situazioni di emergenza o manutenzione. Project Leader: Prof. Giuseppe Marrucci
February 2006 – July 2006	**Internship at Abstract Open Solution Society**, *Abstract Open Solution Society*. Address: Bagnoli (NA) Area: Società specializzata nella formazione, sviluppo, consulenza, hosting del Content Management System Plone Main activities and responsibilities: Studio e sviluppo di applicazioni su Zope (application server) e Plone (Content Management System)
September 2003 – February 2004	**Internship at CNR**, *Istituto di Cibernetica E.Caianiello del C.N.R.*. Address: Pozzuoli (NA) Area: Settore informatico Main activities and responsibilities: Realizzazione di un sistema ibrido, caratterizzato da una rete neurale WiSARD e da un sistema deliberativo ad Agenti
January 2003 – May 2003	**Internship at Sisolinf society**, *Sisolinf Soluzioni informatiche*. Address: Centro direzionale (NA) Area: Settore informatico Main activities and responsibilities: Consulenze nell'ambito dello sviluppo software applicativo specialistico.

Languages

mother tongue

Italian

Other Languages

Language - Reading - Writing - Speaking Capabilities

English - Very Good - Very Good - fluent

French - Very Good - Very Good - fluent

Deutch - Very Good - sufficient - not fluent

Teaching

Teaching Activity	Course of "Computational Intelligence" as part of the bachelor degree course in Physics at the Department of Physics "E. Pancini", University of Napes Federico II (2nd semester, academic year, 2019/2020).
-	Course of "Computer Science" as part of the bachelor degree course in Physics at the Department of Physics "E. Pancini", University of Napes Federico II (1st semester, academic year, 2019/2020).
-	Course of "Cybernetics" as part of the bachelor degree course in Physics at the Department of Physics "E. Pancini", University of Napes Federico II (2nd semester, academic year, 2018/2019).
-	Doctorate Course of "Cognitive Robotics and Artificial Intelligence" at the Department of Physics "E. Pancini", University of Napes Federico II (June-July 2018).

Remunerated Teaching Activity	course of "Technologies for Pervasive eHealth", funded by the University of Naples Federico II, as part of the training course "eHealthLearn: ICT for Health", Authorized and funded by the Ministry of Education, University and Research with Directorial Decree n.713 , Ric. of 29 October 2010 (Cod .: $PON03PE\_00128\_1$). (from April 2016)
Seminar Activity	Remunerated teaching activity as part of the High-Level Training Project "Territorial Improvement to Social Community Managers" - PON Research and Competitiveness 2007-2013 - OR.C.HE.STRA (ORGANIZATION of Cultural Healing for Smart Tourism and Real-time Accessibility) Axis II "Innovation Support", notice "Smart Cities and Communities and Social Innovation", DD. 84 / Ric. of 2 March 2012, approved with DD. 623 / Ric. of 8/10/2012, as amended with subsequent DD.284 of 15/02/2013. (From 18/12/2013 to 19/12/2013)
-	Seminar activities for the "Distributed Systems" course held by Prof. Silvia Rossi as part of the II Level Master Course (RIS - Master in Robotics and Intelligent Systems - http: //www.master- ris.unina.it), year 2010. Topics covered: Swarming, flocking, multi-agent communication.
Course Assistance	Assistance to Laboratory Activities: Course of "Computer Science " as part of the bachelor degree course in Physics at the Department of Physics "E. Pancini", University of Napes Federico II (2nd semester , academic year, 2019/2020).
-	Assistance to the course of "Advanced Robotics" held by Prof. Bruno Siciliano as part of the Degree in Computer Science of the Department of Computer Science and Systems of the University of Naples Federico II, a.a. 2009. Topics covered: Mobile Robots, Monitoring and Planning.
-	Assistance to the course of "Systems for the Government of Robots" held by Prof. Ernesto Burattini as part of the Degree Course in Computer Science of the Department of Physical Sciences of the University of Naples Federico II, a.a. 2006. Topics covered: use of the ROS operating system for mobile robotics applications.
-	Assistance to the course of "Programming Laboratory" held by Prof. Ernesto Burattini as part of the Degree Course in Computer Science of the Department of Physical Sciences of the University of Naples Federico II, a.a. 2004. Topics covered: C programming language

Supervision of Students Thesis

Thesis Supervision	EEG-based Stress Assessment in Human-Robot Interaction
-	Algoritmo di Intelligenza artificiale per classificazione di immagini digitali di tomosintesi al seno. Tutor: Prof. Mariacarla Staffa; Master Degree in Physics
-	Evolutionary generative adversarial networks for data augmentation in breast tumor diagnosis. Co-Tutor: Prof. Mariacarla Staffa; Master Degree in Physics
-	Machine Learning techniques for dark matter search with the newsdm experiment. Co-Tutor: Prof. Mariacarla Staffa; Master Degree inPhysics
-	Automatic non invasive tool for emotional state monitoring. Tutor: Prof. Mariacarla Staffa; Bachelor Degree inPhysics
	Automatic non invasive stress detection in working people via HR analysis. Tutor: Prof. Mariacarla Staffa; Bachelor Degree in Physics
Thesis Tutoring	Learning Parameterized Skills through Models with Expanded Kernels (with iCub, ROS)
-	Multi-modal Human Robot interaction (with kinect Pioneer3dX, Laser, ROS)
-	Differential Evolutionary Strategy for Tuning Neural Network Weights (simulation with Player/stage Tool)

- Multi Robots coordination based on Supervisory Attentional System (Lego mindstorm kit)
- Humanoid dynamically tracking changing objects: a Wisard Approach (with NAO Humanoid Robot, ROS)
- Human Multi-robot Interaction through multi-modal channels with (with XSens, kinect and Pioneer3dX robots, ROS)
- WiSARD approach visual servoing system for multi-drone flocking task (ROS, quadricopter).

Involvement in National and International Conferences or Scientific events as Speaker or Organization Member

PC member
- Ro-MAN2020: The 29th IEEE International Conference on Robot and Human Interactive Communication, RO-MAN 2020, Naples, italy, from 31 of August to the 4th of September 2020
- ICSR2019: The Eleventh International Conference on Social Robotics, November 26th-29th, 2019, Madrid, Spain
- Ro-MAN2018: The 27th IEEE International Conference on Robot and Human Interactive Communication, RO-MAN 2018, Nanjing, China from 27 to 31 of August 2018
- IJCNN'18: 2018 International Joint Conference on Neural Networks, Rio de Janeiro, Brazil
- PAAMS'16: Special Session on Agent Methodologies for Intelligent Robotics Applications (AMIRA), of the 14th International Conference on Practical Applications of Agents and Multi-Agent Systems, Sevilla (Spain), 1st-3rd June, 2016
- WOA'16: 17th Workshop "From Objects to Agents"
- WOA'17: 18th Workshop "From Objects to Agents"

Special Session Organizer
- AICR2020: Special Session on " Ambient Intelligence and Cognitive Robotics" within the WCCI2020 World Congress on Computational Intelligence 2020, with Ahmad Lotfi, Amir Pourabdollah and Giovanni Acampora
- SMC 2019: Accepted Special Session on "Computational Intelligence for Cognitive Robotics" within the 2019 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2019), with Silvia Rossi and Giovanni Acampora
- KES2017: Special Session on "Digital security of health related data" within the International Conference in Innovation in Knowledge Based and Intelligent Engineering Systems (KES2017), 21-23 June, 2017
- WCCI2018: Special Session on "Computational Intelligence for Cognitive Robotics" within the WCCI2018 World Congress on Computational Intelligence, 8-13 July 2018 Brazil
- SMC 2019: Special Session on "Computational Intelligence for Cognitive Robotics" within the 2019 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2019), 6-9 October 2019 Bari

Session Chair
- RO-MAN 2018 - 27th IEEE International Symposium on Robot and Human Interactive Communication. Special session Title: "Human Cognition", August 2018. Nanjing, China
- RO-MAN 2015 - 24th IEEE International Symposium on Robot and Human Interactive Communication. Special session Title: "Human Cognition", 31-08-2015-04-09-2015. Kobe, Japan.

Main Organizer (General Chair)	BAILAR'20: Workshop on Behaviour Adaptation, Interaction and Learning for Assistive Robotics, within the IEEE International Symposium on Robot and Human Interactive Communication (IEEE RO-MAN 2020), Naples, Italy 04/09/2020 (It will be held remotely)
-	BAILAR'18: Workshop on Behavior Adaptation, Interaction and Learning for Assistive Robotics – BAILAR 2018, within the IEEE International Symposium on Robot and Human Interactive Communication (IEEE RO-MAN 2018), Nanjing, China, August 27-31, 2018
-	BAILAR'17: Workshop on Behavior Adaptation, Interaction and Learning for Assistive Robotics – BAILAR 2017, within the IEEE International Symposium on Robot and Human Interactive Communication (IEEE RO-MAN 2017), Lisbon, Portugal, August 28, 2017
-	BAILAR'16: Workshop on Behavior Adaptation, Interaction and Learning for Assistive Robotics – BAILAR 2016, within the IEEE International Symposium on Robot and Human Interactive Communication (IEEE RO-MAN 2016), New York, USA, August 26-31, 2016
Workshop Chair	Ro-MAN2020: The 29th IEEE International Conference on Robot and Human Interactive Communication, RO-MAN 2020, Naples, italy, from 31 of August tot he 4th of September 2020 (It will be held remotely).
Local Arrangement Chair	FUZZ-IEEE'17: the 2017 IEEE Conference on Fuzzy Systems, Naples, Italy, 9-12 July, 2017
-	BVAI 2007 - secondo simposio internazionale su "Brain, Vision and Artificial Intelligence", Napoli, 10-12 Ottobre 2007
-	KONFIDO Europen Project - AB-Meeting, 2-4 Ottobre 2017 - Procida, Italy
Invited Speaker at	CIRCE - Cognitive Robotics for Interaction Workshop (https://circe-roman2020.loria.fr/invited-speakers/) within the main international Conference on on Robot and Human Interactive Communication, RO-MAN 2020.
-	(the Institut des Systèmes Intelligents et de Robotique dell'Université Paris 6 "Pierre et Marie Curie", Parigi, France. Talk Title: "Attentional mechanisms in Behaviour-based Robotic Control systems in order to manage sensory-motor coordination" (15-03-2011)
International Conference Speaker at	30 International/National Conferences (ICRA, Ro-MAN, ICSR, HRI, HFR, LAB-RS, AT-EQUAL, SAB, IROS, PAAMS, CSCIPESANN, AI*IA, COMPSAC, BRICS-CCI, EWDOM, WOA, ARMS, IMOD, WCCI, SMC, FUZZ-IEEE etc.) including A class conferences.

Reviewing/Editing activity

Expert Reviewer	Expert Reviewer (Expert Code (EX2015D256192)) of the EU Commission for Horizon 2020 or other EU funding programmes related to Robotics and AI, FET-PROACT, etc.
Journal/Conferences Reviewing activity	Reviewer for various journals and conferences (such as Robotics and Autonomous Systems Journal, Journal of Industrial Engineering, Journal of Intelligent and Robotic Systems, Sensors Journal, Journal of Ambient Intelligence and Humanized Computing, Journal of Quantum Machine Intelligence, Frontiers in Cognitive Science, Intelligenza Artificiale, Neural Processing Letters Journal,Pattern Recognition Letter, Paladyn Journal of Behavioural Robotics, Neurocomputing Journal, Elsevier Computer and Electrical Engineering Journal, Heliyon Journal, HRI, ROMAN, SAB, AAMAS, ESANN, IROS, ICRA, INNOROBO, ISER, PAAMS, WOA)
Associate Editor	Robotics and Automation Engineering Journal

Main Guest Editor (2020)	International Journal of UMUAI User Modeling and User- Adapted Interaction- Special Issue on "Personalization and Adaptation in Human-Robot Interactive Communication", with Silvia Rossi, Maartje De Graaf and Cristina Gena
Main Guest Editor	International Journal of Social Robotics - Special Issue on "Behavior Adaptation, Interaction and Artificial Perception for Assistive Robotics", published (https://doi.org/10.1007/s12369-020-00655-8)
Main Guest Editor	Paladyn Journal of Behavioural Robotics - Special Issue on " Robot and Human Interactive Communication"
Associate Editor (2019)	Special Session "Cyber" at SMC2019: IEEE International Conference on Systems, Man, and Cybernetics, 6-9 October 2019
Guest Editor (2017)	Paladyn Journal of Behavioural Robotics – Special Issue on "Behavior Adaptation, Interaction and Learning for Assistive Robotics "
Publication Chair	Ro-MAN2018: IEEE International Symposium on Robot and Human Interactive Communication (IEEE RO-MAN 2018), Nanjing China, August 27-30, 2018.
Guest Editor (2018)	Pattern Recognition Letters - Special Issue on "User Profiling and Behavior Adaptation for Human-Robot Interaction"

Scientific responsibility for International/National Research Projects

Current Projects: key roles

Project Manager	She is currently Project Manager of the funded PERSEO Project : European Training Network on PErsonalized Robotics as SErvice Oriented applications (MARIE Skłodowska-CURIE ACTIONS MSCA-ITN-ETN 2020). This project aims at attraining a new generation of interdisciplinary professionals to face both societal and technological research challenges of the forthcoming market of personal robots ascompanions, in rehabilitation, and for edutainment.
Co-Investigator	She is currently Co-Investigator of the fundend COHERENT Project: COllaborative HiErarchical Robotic ExplaNaTions (Call 2019 of the CHIST-ERA ERA-NET for the topic Explainable Machine Learning-based Artificial Intelligence – XAI). This project will develop a novel framework able to first produce explainable decisions combining reasons from all the levels of a robotic architecture from low to high level; and second, to be able to effectively communicate such decisions and re-plan according to new user inputs in real-time along with the execution.

Current Projects: collaborations

Collaborator	She is also currently collaborating in the following project as Unit's personnel:

- AVATEA Project : Advanced Virtual Adaptive Technologies e-hEAlth, CUP B13D18000130007 (POR CAMPANIA FESR 2014/2020).
- BARTOLO Project : Bioptic Adavanced Robotic Technologies in OncoLOgy (POR CAMPANIA FESR 2014/2020 – ASSE 1 - Ricerca e Innovazione; Obiettivo Specifico 1.2; Azione 1.2.2, di cui al Decreto di Concessione DD n. 424 del 16/11/2018).
- BRILLO Project: Bartending Robot for Interactive Long Lasting Operations (Fondo per la Crescita Sostenibile – Sportello "Fabbrica Intelligente" PON I2014-2020, Project N. F/190066/01-02/X44).

Current Projects: proposals preparation

Proposer	She recently participated in the following National/International Project proposal preparation for the following calls:

as Project Manager	H2020-MSCA-ITN-ETN 2020: MARIE Skłodowska-CURIE ACTIONS - Innovative Training Networks (ITN) Project PERSEO: European Training Network on PErsonalized Robotics as SErvice Oriented applications as Project Manager
as Unit Principal Investigator	H2020-ICT-46-2020: Project SOCIADAPT: Socially Cooperative Adaptive Robots For Assistance, Therapy and Education in People with Learning Impairments, in quality of Beneficiary Leader for the University of Naples Federico II.
as Unit Co-Investigator	H2020-SU-FCT-02-2020: Project FRONTIER: Forensic ROobots for iN-situ holographic reconsTruction of crIme dynamics in a post- bloody Event scenaRio as key person of the Leading Unit.

Past Projects: European Projects

Unit Principal Co-Investigator	KONDIFO - "Secure and Trusted Paradigm for Interoperable eHealth Services" submitted to the Call: H2020-DS-3-2016 (Increasing digital security of health related data on a systemic level). The project was funded with the grant agreement number 727528, for a total of $4.992.000$ euros, of which a contribution to the partner CINI of approximately 686.000 euros. The contribution covered the entire production cycle of the proposal, defining the progress with respect to the state of the art, the organization of the work, the main Milestones and the related timing. She was among the key members of the research group headed by the CINI unit (National Inter-university Consortium for Informatics
Unit Principal Co-Investigator	COMPACT: Competitive Methods to protect local Public Administration from Cyber security Threats, submitted to the Call: H2020-DS-02-2016-2017 (Digital Security Focus Area). The project was funded with the grant agreement number 740712, for a total of $3.648.000$ euros, of which a contribution to partner CINI of approximately 543.000 euros. The contribution covered the entire production cycle of the proposal, from the definition of the project idea, to the specification of the Work Packages, up to the detailed timing. She participated as part of the Principal Investigator of unit, among the key members of the research group headed by the CINI unit (National Inter-university Consortium for Informatics
Collaborator	SAWSOC: Situation AWare Security Operations Center (SAWSOC) European Project under the grant n.313034, Her contribution covered the following activities: she was principal investigator for some tasks and Work packages headed by the CINI operational unit represented by the members of the University of Naples Parthenope
Collaborator	RODYMAN: "Robotica DYnamic MANipulation" (ER Advanced Grant no. 320992 - http://www.rodyman.eu). Her contribution covered the following activities: development of a segmentation techniques for deformable objects tracking
Collaborator	SAPHARI: "Safe and Autonomous Physical Human-Aware Robot Interaction" funded by the EU commission under the EU-FP7 programme (FP7-ICT-287513 - www.saphari.eu) . Her contribution covered the following activities: member of the UNINA operating unit, developper of models and algorithms for cognitive robot control, learning and Interpretation of human activities
Collaborator-PhD	DEXMART: " DEXterous and autonomous dual-arm/hand robotic manipulation with sMART sensory-motor skills: A bridge from natural to artificial" cognition funded by the EU Commission under the FP7-216239 programme, www.dexmart.eu. Her contribution covered the following activities: development of a behavior based robotic system for adaptive sensory motor coordination inspired by humans' attentional system

Past Projects: National/Regional Projects

Collaborator	ORCHESTRA: PON Research and Competitiveness 2007-2013 - OR.C.HE.STRA (Organization of Cultural Heritage for Smart Tourism and Real-time Accessibility) Axis II Support for Innovation, notice "Smart Cities and Communities and Social Innovation", DD . n.84 / Rec. of 2 March 2012, approved with DD. 623 / Ric. of 8/10/2012, as amended with subsequent DD.284 of 15/02/2013. Her contribution covered the following activities: seminar activity
Responsible for OR, Collaborator	eHealthNet: Ecosistema per la Sanita' Elettronica (Cod .: $PON03PE\_00128\_1$). Her contribution covered the following activities: Scientific responsibility of OR entrusted by the National Consortium Inter-University for Telecommunications (CNIT) and remunerated teaching activity of the Course Titled: Technologies for Pervasive eHealth
Collaborator	TEMOTEC: TEcnologie e MOdelli per la Tutela degli Ecosistemi Culturali (TE-MOTEC) National Project, $PON03PE\_00098\_1$. Her contribution covered the following activities: Digitalization Techniques; Techniques and tools for data collection
Collaborator	DIGIT@UNI: a C.S.I. Project, University of Naples Federico II as part of the ICT4University Programme. Her contribution covered the following activities: Development of ConFirma documentation (digital signature management tool), customization of the INDICO portal for events organization
Collaborator	SCOPE: S.C.O.P.E. Project, C.S.I., University of Naples Federico II. Area: General-purpose supercomputing infrastructures. Her contribution covered the following activities: the development of automatic software for monitoring server rooms and manage emergency situations

Societies/Centers/Lab Membership

- Member of the Institute of Electrical and Electronics Engineers (IEEE)
- IEEE RAS Technical Committee for Cognitive Robotics
- Member of the EU Committee of Expert reviewers (Expert Code: EX2015D256192)
- Member of EUCognition - European Society for Cognitive Systems (ID: 2037)
- Member of the PRISCA (Projects of Intelligent Robotics and Advanced Cognitive Systems) Laboratory performing innovative research and applications in the field of Cognitive Robotics, Artificial Intelligence and Human-Robot Interaction
- Member of the QUASAR (Quantum Computing and Smart System) Laboratory, collaborating with experts of machine learning and signal processing
- Member of the PRISMA (Projects of Robotics for Industry and Services, Mechatronics and Automation) Laboratory, operating in the Department of Electrical Engineering and Information Technology of University of Naples Federico II, committed to research in robotics and automation
- Member of the FITNESS (Fault and Intrusion Tolerant NEtworked SystemS) Research Group of the University of Naples "Parthenope", Department for Technologies, performing cutting-edge research in distributed systems security and dependability, and in Critical Infrastructure Protection
- Member of the ICAROS center (Interdepartmental Center for Advances in Robotic Surgery) of the University of Naples Federico II, aiming at creating synergies between clinical and surgical practice and research on new technologies for computer/robot assisted surgery

Prizes and Awards

2016	**Award of Scientific Excellence**, *Paper Title: "Negotiating and Executing Composite Tasks for QoS-Aware Teams of Robots". PAAMS Conference (2016).*

2013 **Best Professional Paper**, *Paper Title: "Attentional Shifting and Curiosity: a Reinforcement Learning Approach". BRICS-CCI and CBIC Conference (2013).*

2009 **Runner Up Paper**, *Paper Title: "Monitoring strategies for adaptive periodic control in behavior-based robotic systems". AT-EQUAL Conference (2009).*

2008 **Doctorate School**, *Winner of a three-year scholarship for the doctorate in Computer and Automatic Engineering funded by the European Project FP7 DEXMART Program (DEXterous and autonomous dual-arm hand robotic manipulation with sMART sensory-motor skills: A bridge from natural to artificial cognition). The PhD was conducted under the supervision of Prof. Bruno Siciliano from the Department of Electronic Engineering and Information Technologies..*

List of publications

Journals

2020 Staffa, M., Rossi, S., Tapus, A., Khamassi, M. Editorial of the Special Issue on Behavior Adaptation, Interaction, and Artificial Perception for Assistive Robotics. Open Access. International, Journal of Social Robotics, Volume 12, Issue 3, 1 July 2020, Pages 613-616. DOI: 10.1007/s12369-020-00655-8

- Rossi, S., Conti, D., Garramone, F., Santangelo, G., Staffa, M., Varrasi, S., Di Nuovo, A. The role of personality factors and empathy in the acceptance and performance of a social robot for psychometric evaluations (2020) Robotics, 9 (2), art. no. 39. DOI: 10.3390/ROBOTICS9020039

- Rossi, S., Acampora, G., Staffa, M. (2020). Working together: a DBN approach for individual and group activity recognition, Journal of Ambient Intelligence and Humanized Computing (2020). DOI: 10.1007/s12652-020-01851-0

- Acampora, G., Minopoli, G., Musella, F., Staffa, M. (2020). Classification of transition human activities in IoT environments via memory-based neural networks. Open Access. Electronics Journal (Switzerland) (2020), 9 (3), art. no. 409. DOI: 10.3390/electronics9030409

2019-20 Staffa, M., Giordano, M., Ficuciello, F. A WiSARD Network Approach for a BCI-Based Robotic Prosthetic Control (2020) International Journal of Social Robotics, 12 (3), pp. 749-764. DOI: 10.1007/s12369-019-00576-1

- Mazzeo, G., Staffa, M. TROS: Protecting Humanoids ROS from Privileged Attackers (2020) International Journal of Social Robotics, 12 (3), pp. 827-841. DOI: 10.1007/s12369-019-00581-4

2018 Staffa, M., Sgaglione, L., Mazzeo, G., Coppolino, L., D'Antonio, S., Romano, L., Gelenbe, E., Stan, O., Carpov, S., Grivas, E., Campegiani, P., Castaldo, L., Votis, K., Koutkias, V., Komnios, I.. An OpenNCP-based Solution for Secure eHealth Data Exchange (2018) Journal of Network and Computer Applications, 116, pp. 65-85. DOI: 10.1016/j.jnca.2018.05.012

- Rossi, S., Staffa, M., Tamburro, A. Socially Assistive Robot for Providing Recommendations: Comparing a Humanoid Robot with a Mobile Application (2018) International Journal of Social Robotics, 10 (2), pp. 265-278. DOI: 10.1007/s12369-018-0469-4

2016 A. Rossi, M. Staffa, S. Rossi, "Supervisory Control of Multiple Robots through Group Communication", IEEE Transactions on Cognitive and Developmental Systems Journal, Special Issue on Cognitive Agents and Robots for Human-Centred Systems, 2016, vol. PP, n. 99, doi:$10.1109/TCDS.2016.2606562$, ISSN:$2379-8920$.

- Gregorio, M.D., Giordano, M., Rossi, S., Staffa, M., "Experimenting WNN support in object tracking systems", (2016) Neurocomputing - Special Issue on Weightless Neural Systems, Elsevier Editorial, NEUCOM-D-14-020032015, 183, pp. 79-89. DOI:$10.1016/j.neucom$.2015.09.117.

2015 M. Staffa, D. Perfetto and S. Rossi. "Engineering central pattern generated behaviors for the deployment of robotic systems", Neurocomputing - Special Issue on Advances on Biological Rhythmic Pattern Generation: Experiments, Algorithms and Applications, Elsevier Editorial, NEUCOM-D-14-020032015, Available online 10 July 2015, ISSN:$0925 - 2312$, `http://dx.doi.org/10.1016/j.neucom.2015.03.094`, `http://www.sciencedirect.com/science/article/pii/S0925231215009340`.

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