

**PERSONAL
INFORMATION****Walter MATTA**

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- Skype: w.matta

**WORK
EXPERIENCE**

-
- 11/2017 - currently **Full Professor¹ of Informatics (INF/01)**
Link Campus University – Via del Casale di San Pio V 44 – 00156 Rome, Italy – www.unilink.it
- Teaching of graduate courses:
 - Information Technology (2017-20)
 - Big Data Analysis (2021-23)
 - Logic, Interaction and Game (2023-24)
 - Chairman of CRISS - Centre of Research for Secure Societies (2017-20)
- 01/2022 - currently **Vice-President – Chief Technology & Innovation Office of Electronic Division**
Leonardo – Via Tiburtina 1020 – 00156 Rome, Italy – www.leonardo.com
- Definition and coordination of the technology innovation roadmaps and its innovation value chain
 - Definition and coordination of the financing strategy of the Division
 - Coordination with national and international bodies, in strict coordination with the Corporate functions
 - Commercial deployment of Innovation
- 12/2016 – 12/2021 **Director of Strategy, Innovation and Government Funding and member of Company Steering Committee**
Leonardo-Vitrociset S.p.A. – Via Tiburtina 1020 – 00156 Rome, Italy – www.vitrociset.it
- Definition and coordination of Strategic Plan
 - Definition and coordination of Product & Technology Innovation Plan
 - Coordination of Funding Programs (from acquisition to execution)
 - Coordination of IP and patents
- 12/2011 – 11/2016 **Chief of Corporate R&D**
Vitrociset S.p.A. – Via Tiburtina 1020 – 00156 Rome, Italy – www.vitrociset.it
- Definition and actuation of the R&D Agenda
 - Coordination of relation with national and international organizations, universities and research centres, as well as Technology Districts and Clusters
 - Coordination of Funding Programs (from acquisition to execution)
 - Coordination of IP and patent
- 04/2011 - 02/2019 **S&T Director**
Consorzio S3log (consortium composed by 60% Leonardo and 40% Vitrociset for the Aerospace, Defence and Security Infologistics) – Via Tiburtina 1020 – 00156 Rome, Italy – www.s3log.it
- Principal Investigator of several EU (EC-FP7, EDA and NATO) and Italian projects
 - Co-author of several papers and coordinator of relevant EU and National technology platforms (i.e. Defence, Security and Aeronautics).
- 01/2008 – 11/2011 **Head of International Organizations Area**
Vitrociset S.p.A. – Via Tiburtina 1020 – 00156 Rome, Italy – www.vitrociset.it
- Management of the entire process of cooperation opportunities
 - Management and coordination of international programs
- 09/1996 – 12/2007 **Real-Time System & Software Engineer - Team Leader – Project/Program Manager**
Vitrociset S.p.A. – SS. 125 Km. 78 – 09040 Villaputzu, Sardinia, Italy – www.vitrociset.it
- Real-time software and system engineering, in particular in Command & Control systems for military applications, developing core competence such as:

¹ At definite time

- Sensors & Signal Processing
- Multi Sensor Data Fusion
- Mediation Layer
- Detection, Recognition & Tracking
- Situational Awareness & Decision Making
- Information Integration Services

04/1994 – 08/1996

Researcher on contractUniversità degli Studi di Cagliari, DIEE, Via Marengo 2 - 09123 Cagliari CA – www.unica.it

- Study of equivalent models of lasers for degradation analysis
- Study of electronic sensors for smart gates
- Study of optimal control of electrical pantographs for high speed trains

INTERNATIONAL MEMBERSHIP

06/2017 – 06/2019

Member of Board of Directors – Member of Partnership BoardECISO - European Cyber Security Organization - 29 rue Ducale, 1000 Brussels, Belgium – www.ecs-org.eu

06/2019 – 06/2020

Vice-Chairman of Soft Target and Critical Infrastructure ProtectionEuropean Organisation for Security - 46 Avenue des Arts, 1000 Brussels, Belgium – www.eos-eu.com

04/2016 - currently

Member of Board of Directors – Member of Strategic Committee - Vice-Chairman of Soft Target and Critical Infrastructure ProtectionEuropean Organisation for Security - 46 Avenue des Arts, 1000 Brussels, Belgium – www.eos-eu.com

April 2015

Member of Expert Group “Final Evaluation of the FP7 Security Research Actions and recommendation for the future shape of the security research programme”European Commission and Technopolis Group - Brussels, Belgium - www.ec.europa.eu

02/2008 – currently

CapTech Non-government Expert (CnGE)European Defence Agency - Rue des Drapiers 17-23, 1050 Brussels, Belgium - www.eda.europa.eu

02/2006 – 11/2016

NATO Industrial Advisory Group (NIAG) ExpertNATO - Boulevard Leopold III-laan, 1110 Brussels, Belgium - www.nato.int**NATIONAL MEMBERSHIP**

06/2021 - currently

Member of International Advisory CouncilIstituto Italiano di Studi Strategici “Nicolò Macchiavelli” – Circonvallazione Clodia 163-167 00195 Roma - www.strategicstudies.it

06/2020 - currently

07/2018 - 09/2019 03/2017 – 06/2019

- Member Technical Committee Cluster Tecnologico Nazionale Aerospace (Italian Cluster for** of Aerospace Technology). – Via Nazionale 54, 00184 - Rome, Italy – www.ctna.it
- Member of Cabin of Direction between the Ministry of Defence and the Sardinia Region for Military Servitude**
Ministero della Difesa – Via XX Settembre 8 - 00187 Roma (RM), Italia – www.difesa.it
- Member of Technical-Scientific Committee**
DAC Scarl (Aerospace Technology District of Campania). – Via Maiorise Capua (CE), 81043, Italy – www.daccampania.com
- 04/2015 – 12/2016 **Member of Government Board for the Italian Policy of Aerospace**
Presidenza del Consiglio dei Ministri - Piazza Colonna 370, Roma, Italy - www.governo.it
- 06/2014 – 05/2017 **Member of Strategic & Management Committee**
Associazione Cluster Trasporti Italia 2020 (Italian Technology Cluster of Transport). – Viale Pasteur 10, 00144 Roma, Italy – www.clustertrasporti.it
- 10/2013 - currently **Vice-president of Board of Directors**
DASS Scarl (Aerospace Technology District of Sardinia) – Via Carbonazzi 14, 09123 Cagliari, Italia– www.dassardegna.eu
- 05/2009 – currently **Expert for Italian Technological Innovation (Ministerial Decree MSE n. 60 of 11/05/09)**
Italian Ministry for Economic Development - Roma, Italy - www.sviluppoeconomico.gov.it

EDUCATION

- 06/1994 **Professional Engineer Certificate**
University of Cagliari, Italy – www.unica.it
- 11/1989 – 02/1994 **University Degree in Electrical Engineering**
University of Cagliari, Italy – www.unica.it
- legal course duration: 5 years;
 - mark: 110/110 with honours
 - thesis published on international journal
- 11/1989 – 02/1991 **Fellowship on Chemical-Physical Instrumentation**
CNR – Italian National Research Council – Piazza D'armi Cagliari, Italy – www.cnr.it

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user [Common European Framework of Reference for Languages](http://www.europa.europa.eu/education/languages/)

ADDITIONAL INFORMATION

- Award from Minister of Education, Research and University for the best project of smart cities call (10/2012)

- Coordinator and supervisor about 40 EU/NATO and National (Italian) funding projects (see Attachment 1)
- Author/Co-author of several international publications (see Attachment 2)

ATTACHMENT 1:
List of
Funded R&D Projects

R&D Project	Funding Source	Funding of Competence	Covered Role
<i>NI2S3 - Net-centric Information & Integration Services for Security Systems</i>	European Commission, FP7-SEC	2.7 M€	Coordinator and Chairman of Steering Committee
<i>MEDUSA - Multi Sensor Data Fusion Grid for Urban Situational Awareness</i>	EDA, JIP FP	3.6 M€	Coordinator and Chairman of Steering Committee
<i>TASS - Total Airport Security System</i>	European Commission, FP7-	546 K€	Member of Steering Committee
<i>THIS - Transport Hub Intelligent video System</i>	European Commission, DG HOME	148 K€	Member of Steering Committee
<i>HECTOR - Helicopter Fuselage Crack Monitoring and Prognosis Through On-board Sensor</i>	EDA, JIP ICET	413 K€	Member of Steering Committee
<i>APIS - Array Passive ISAR adaptive processing</i>	EDA, JIP ICET	432 K€	Member of Steering Committee
<i>PROACTIVE - Predictive reasoning and multi-source fusion empowering Anticipation of attacks and Terrorist actions In Urban Environments</i>	European Commission, FP7-SEC	3,3 M€	Coordinator and Chairman of Steering Committee
<i>SMART - Search Engine for Multimedia Environment Generated Content</i>	European Commission, FP7-ICT	316 K€	Member of Steering Committee
<i>REWARD - Real time Wide Area Radiation surveillance system</i>	European Commission, FP7-	499 K€	Member of Steering Committee
<i>eVACUATE - A holistic, scenario-independent, situation-awareness and guidance system for sustaining the Active Evacuation Route for large</i>	European Commission, FP7-SEC	774 K€	Member of Steering Committee
<i>SUNNY - Smart UNmanned aerial vehicle sensor Network For detection of border crossing and illegal entry (European Commission, FP7-SEC)</i>	European Commission, FP7-SEC	386 K€	Member of Steering Committee
<i>iURBAN - Intelligent URBAN eNergy tool</i>	European Commission, FP7 - Smart Cities	391 K€	Member of Steering Committee
<i>PREEMPTIVE - PREventive Methodology and Tools to protect utilities</i>	European Commission, FP7-	3.8 M€	Chairman of Steering Committee
<i>CyberROAD - Development of the CYBER crime and CYBER terrorism research ROADmap</i>	European Commission, FP7-	60 K€	Member of Steering Committee
<i>SUPER - Social sensors for security assessments and Proactive Emergency management (European Commission, FP7-SEC)</i>	European Commission, FP7-SEC	619 K€	Chairman of Steering Committee
<i>SCOUT - Multitech Security system for interconnected space control ground stations (European Commission, FP7-SEC)</i>	European Commission, FP7-SEC	295 K€	Member of Steering Committee
<i>eGOTHAM - sustainable smart Grid Open system for The Aggregated control, Monitoring and management of energy ()</i>	JU ARTEMIS	304 K€	Member of Italian Steering Committee
<i>DEMANES - Design, Monitoring and Operation of Adaptive Networked Embedded Systems</i>	JU ARTEMIS	363 K€	Member of Italian Steering Committee
<i>nSafeCer - Safety Certification of software-intensive systems with reusable components</i>	JU ARTEMIS	331 K€	Member of Italian Steering Committee
<i>SlimPORT - Sicurezza, Logistica, Intermodalità Portuale</i>	MSE, Industria 2015, Mobilità Sostenibile	536 K€	Member of Steering Committee
<i>IMPULSO - Integrated Multimodal Platform for Urban and extra urban Logistic System Optimization</i>	MSE, Industria 2015, Mobilità Sostenibile	1.0 M€	Coordinator and Chairman of Steering Committee
<i>HABITAT - Harbor traffic optimization system</i>	MIUR, PON R&C 2007-13	11.5 M€	Chairman of Steering Committee

<i>SNIFF - Sensor Network Infrastructure for Factors</i>	MIUR, PON R&C 2007-13	11.8 M€	Chairman of Steering Committee
<i>MONICA - MONitoraggio delle Coste e dell'Ambiente</i>	MIUR, PON R&C 2007-13	1.6 M€	Member of Steering Committee
<i>Acqua System - Procedure e tecnologie innovative per una gestione pianificata ed integrata delle risorse idriche, l'ottimizzazione energetica ed il controllo della qualità nel Ciclo Integrato delle Acque</i>	MIUR, PON R&C 2007-13	17.0 M€	Chairman of Steering Committee
<i>Smart Tunnel - Piattaforma intelligente di servizi logistici per le città portuali</i>	MIUR, PON R&C 2007-13	7.3 M€	Chairman of Steering Committee
<i>MARTE - Modelli di governance, riconfigurazione e monitoraggio delle attività logistico portuali ed inter-portuali ()</i>	MIUR, PON R&C 2007-13	2.0 M€	Member of Steering Committee
<i>CAGLIARI PORT 2020</i>	MIUR, Smart Cities Nazionali	8.3 M€	Chairman of Steering Committee
<i>CAGLIARI 2020</i>	MIUR, Smart Cities Nazionali	24 M€	Chairman of Steering Committee
<i>LEGO-CART - Carrelli innovativi LEGO-like per il supporto alla missione di velivoli militari</i>	MSE, L.808	8.9 M€	Coordinator
<i>SWARM - Comando e controllo di sciame di mini UAV per missioni ISR</i>	MSE, L.808	5.7 M€	Coordinator
<i>ASMARA - Applicazioni pilota post Direttiva 2010/65 in realtà portuali italiane della Suite MIELE a supporto delle Authority per ottimizzazione della interoperabilità nella intermodalità dei flussi città-porto</i>	MIUR, Smart Cities Nazionali	1.9 M€	Member of Steering Committee
<i>Ilog4All - Piattaforma Infologica per la Gestione del Traffico d'Aviazione Generale</i>	POR F.S.E - Regione Lazio	1.4 M€	Coordinator and Chairman of Steering Committee
<i>NIRVANA - Nucleo per Interventi Robotici Virtuali per Addestramento di Natura Asimmetrica/Ambientale</i>	Ministero della Difesa - PNRM	319 K€	Chairman of Steering Committee
<i>SPECIAL - Sensors Platform for Environment Characterization and threat</i>	Ministero della Difesa - PNRM	244 K€	Chairman of Steering Committee
<i>MIDAS - Control of a team of mini-UAVs to support counter-terrorism missions</i>	NATO SPS	N/A	Member of Advisor Group
<i>WITNESS - Wide InTegration of sensor Networks to Enable Smart Surveillance</i>	NATO SPS	N/A	Member of Advisor Group
<i>Anti-Drones - Innovative concept to detect, recognize and track "killer-drones"</i>	NATO SPS	N/A	Member of Advisor Group
<i>STEPWISE - Simulation, Training, and Evaluation Platform for the Protection of Crowded Public Spaces</i>	European Commission, ISF Police	N/A	Member of Advisor Group
<i>LINKS - Strengthening Links Between Technologies And Society for European Disaster</i>	European Commission, H2020	N/A	Member of Advisor Group

ATTACHMENT 2:
Latest (3 Years)
Publications

- W. Matta, A. Cantelli-Forti, **"An innovative Airport Physical-Cyber Security System (APSS)"** *Information & Security: An International Journal* 43, no. 3 (2019): 285-293.
- A.R. Khadka, M.M. Oghaz, W. Matta, M. Cosentino, P. Remagnino, V. Argyriou, **"Learning how to analyse crowd behaviour using synthetic data"**, *Proceedings of the 32nd International Conference on Computer Animation and Social Agents, Paris, France July 1– 3, 2019 - CASA 2019*
- Alessandro Mattiacci, Marco Cosentino, Walter Matta, Carlo Maria Medaglia, Andrei Braicov, Ivan Budanaev, Mircea Petic, Vasileios Argyriou, Mahdi Maktab Dar Oghaz, **"WITNESS: Wide InTegration of Sensor Networks to Enable Smart Surveillance"**, *Advanced Technologies for Security Applications* (pp.195-206), January 2020
- A.R. Khadka, M.M. Oghaz, W. Matta, M. Cosentino, P. Remagnino, V. Argyriou, **"Smart Surveillance Systems and Their Applications"**, *Mobility Internet of Things 2018* (pp.179-187), February 2020
- Walter Matta, **"L'intelligenza artificiale per la sicurezza pubblica"**, Volume "Per una cultura della sicurezza condivisa. Trattato di sicurezza pubblica", Franco Angeli (luglio 2020)
- Walter Matta, **"Opportunità e sfide offerte dalla tecnologia per la Polizia"**, progetto Sicurezza n.2 "Riforme, sviluppo e integrazione: il ruolo della sicurezza" (aprile 2021)
- A. Antenucci, S. Mazzaro, A. E. Fiorilla, L. Messina, A. Massa, W. Matta, **"A ROS Based Automatic Control Implementation for Precision Landing on Slow Moving Platforms using a Cooperative Fleet of Rotary-Wing UAVs"**, 5th International Conference on Robotics and Automation Engineering (ICRAE2020), Singapore, November 2020 [Accepted, Forthcoming].
- S. Mazzaro, M. Nobili, A. E. Fiorilla, D. Hamilton, A. Massa, W. Matta **"A Telerobotic Real-Time Network Distributed Framework for the ITER Remote Handling Supervisory Control System"**, September 2020, 31st Symposium On Fusion Technology (31st SOFT) [Accepted, Forthcoming].
- L. Messina, S. Mazzaro, A. E. Fiorilla, A. Massa, W. Matta, **"Industrial implementation and performance evaluation of LSD- SLAM and map filtering algorithms for obstacles avoidance in a cooperative fleet of unmanned aerial vehicles"**, 3rd International Conference on Intelligent Robotics and Control Engineering (IRCE2020), University of Oxford, UK, August 2020 [Accepted, Forthcoming].
- M. A. Brignoli, S. Mazzaro, G. Fortunato, A. Corà, W. Matta, S. P. Romano, B. Ruggiero, V. Coscia **"Combining Exposure Indicators and Predictive Analytics for Threats Detection in Real Industrial IoT Sensor Networks"**, June 2020, 2020 IEEE International Workshop on Metrology for Industry 4.0 & IoT (MetroInd4.0&IoT).
- W. Matta, S. Mazzaro, A. Antenucci, L. Messina, A. E. Fiorilla, A. Massa, **"Towards urban delivery using a cooperative fleet of unmanned aerial vehicles"**, December 2020, EAI Mobility IoT 2020 - 7th EAI International Conference on Mobility, IoT and Smart Cities
- Antenucci, A. Brancati, S. Mazzaro, G. Bastianelli, R. Rovella, A. Massa, W. Matta, **"An Industrial Distributed Network of Intelligent Robotic Security Guards Based on the Internet of Robotic Things Paradigm"** January 2021, 2021 International Conference on Computer, Control and Robotics (ICCCR), Shanghai, China
- Antenucci, L. Messina, A. Palumbo, S. Mazzaro, W. Matta, **"A framework based on Deep Learning techniques for multi-drone ISR missions performance evaluation in different synthetic environments"**, May 2021, NATO S&T SCI-341/IEEE Conference On Cognitive Situation Management (CogSIMA 2021)
- Antonio Romano, Aniello Basile, Walter Matta, Moreno Peroni, Alessandro Panico, Andrea Cecchini, Giorgio Isoletta, Carlo Lombardi, Roberto Opromolla, Giancarmine Fasano, **"Metrological Characterization of Ground-based Sensors for Space Surveillance and Tracking"**, IEEE MetroAeroSpace 2021, June 2021