Short curriculum vitae – Feb 2018 Massimiliano Mattei

Short curriculum vitae

Massimiliano Mattei

Full Professor of Flight Mechanic at the Engineering Department Università della Campania "Luigi Vanvitelli", Via Roma n.29, Aversa (CE), C.A.P., 81031, tel.081-5010406, e-mail: massimiliano.mattei@unicampania.it

Curriculum Studiorum and Academic Positions

aircraft (CIRA-CF-11-0799)

Curriculu	in Studiorum and Academic Positions
1993	Laurea cum laude Aeronautical Engineering - Università di Napoli "Federico II" Laurea Prize <i>Consorzio Napoli Ricerche</i> .
1993-97	PhD in Electronic Engineering Università di Napoli "Federico II"
1997-98	On contract Professor "Teoria dei Sistemi" (DU) Università di Napoli Federico II.
1997-01	Assistant Professor Università di Reggio Calabria, S.S.D. Automatica ING-INF/04
2001-04	Associate Professor Università di Reggio Calabria, S.S.D. Automatica ING-INF/04
2005-08	Full Professor Università di Reggio Calabria, S.S.D. Automatica ING-INF/04
2008-18	Full Professor Flight Mechanics Università della Campania L.Vanvitelli S.S.D. Meccanica del Volo ING-IND/03
Main Sci	entific, Technical and Administrative Activities
	Collaboration with CIRA (Italian Aerospace Research Center) on "Parabolic Flights"
1994-96	•
1997-98	Research contract - Università Napoli Federico II
	"Modelling and Control of space vehicle during rendez-vous and docking phases"
1997-00	Research contract on "Modelling and Control of the Scirocco Plasma Wind Tunnel" with CIRA
1998-99	Participation to the project PRIN 9809073286_002 on
	"Shape control of plasmas for nuclear fusion in tokamaks"
2001-04	Participation to the Brite-Euram V Programma Quadro ADFCSII (5th European Framework) on Flight Control
2001-03	Participation to the project PRIN 2001091179_003, on inverse problems for fusion plasmas in tokamaks
2003-05	Participation to the project PRIN PRIN 2003090472_001, on scenario optimization in tokamaks
2003-05	Participation to the project PON GAFACS on Flight Control
2004-06	Scientific coordinator for a research project on "Fault Detection and Isolation for Robotics, Fusion Tokamaks and Aircrafts" granted by the CARICAL foundation
2005-07	Participation to the project PON "PILOT – Piattaforma di Interoperabilità per la LOgistica ed i Trasporti"
2005-07	Participation to the project AUTOMA (AUTOmobile Logistic MAnagement)
2005-07	Participation to the project LOGICA
2005-07	Participation to the project "ICT LAB" (POR Calabria)
2005-06	Scientific Coordinator of experiments on the JET tokamak (<u>www.jet.efda.org</u>)
2005-07	Responsible for EFDA contract on ITER and DEMO (EQUIL contract)
2006-07	FIRB project on Nuclear Fusion, MIUR N. RBNE03TZZB_003
2007-08	Responsible for EFDA contract on ITER operation Scenarios (OPSCE contract).
2007-09	Participation to the project PRIN "Modelling and Control of plasma instabilities in tokamaks
	on the resistive time scale"
2010-11	F4E GRANT on the optimization of PF and CS ITER coils (GRT-017 F4E), local coordinator
2010-12	F4E GRANT on optimization and simulation of ITER Scenarios (GRT-255 F4E), local coordinator
2009-11	EFDA ITM Task Order JW9-O-ENEA-8, ITC task order JW10-TA-EX-ITC-06), ITM (ITM-09-IMP1-T2)
2009-11	Local coordinator PRIN 2008CSS4W3_004 on Flight Control
2010-11	Reserach contract with ALENIA-Aeronautica of flight simulation of Regional Aircrafts
2014-	Participation to the preliminary design of the ITER Plasma Control System
2018-	F4E OPE883 contract on plasma magnetic reconstruction
2011-18	Other research contracts and Grants on modelling and control of fusion plasmas in tokamaks
	ITER (<u>www.iter.org</u>), JT60SA (<u>www.jt60sa.org</u>), DEMO (<u>https://www.euro-fusion.org</u>)
2011-13	Scientific responsible contract DIAM-SELEX Sistemi Integrati on mobile robots control (SSI-CTR-2010-13A)

2012-13 Scientific responsible - reserach contract DIAM-CIRA Fault Detection and Isolation for General Aviation

2014-17 Scientific responsible – research contract DIII-Caltec on Control Algorithms for a VTOL UAV EPTERON

2014-15	Scientific responsible DIII-DEMA contract on the development of the UAV ULTRAS
2015-	Local coordinator of the UCLV research unit in SCAVIR project
2015-	Local coordinatol of the UCLV research unit in MISTRAL project
2018	Local coordinator of the UCLV rsearch unit in the MIB (Modular Iron Bird) project
2015	One Star Innovation Award MBDA
1994-15	Member IEEE, Senior Member 2006
1995-15	Member AIAA, Senior Member 2010
2007-13	Associate Editor IEEE Transactions on Control Systems Technology
2011-16	Member of the Scientific Committee of the CREATE Consortium
1994-18	Author and co-author of about 180 scientific papers
	h-index: 25 (Scopus), 27 (Google Scholar).
	Reviewer for the main journals in the area of Automatic Control and Flight Mechanics
	(e.g. Acta Astronautica, Aerospace Science and Technology,
	AIAA Journal on Guidance, Control and Dynamics, ASME Journal of Dynamic Systems, Measurement and Control, Automatica, Control Engineering Practice, Fusion Engineering and Design, IEE Proceedings, IEEE Transactions on Aerospace, IEEE Control Systems Magazine, IEEE Transactions on Automatic Control, IEEE Transactions on Circuits and Systems, IEEE Transactions on Control Systems Technology, IEEE Transactions on Robotics and Automation, International Journal of Control, International Journal of Robust and Nonlinear Control, International Journal of Adaptive Control and Signal Processing, ISA Transations, Journal of Process Control, Neural Networks, Nuclear Fusion, Robotica,), member of the scientific Committee of the following conferences MERCEA 2008 (Reggio Calabria, IT), ADC 2010 (Ferrara,IT), ICONS 2013 (Chengdu, China), CoDiT 2019 (Paris, France)
2005-18	Co-author of scientific Software for the simulation, magnetic reconstruction and control of plasmas for
	nuclear fusion in tokamak reactors. (e.g. Software XSCTools, MSWTools, CREATE-NL)
1993-18	Teaching experience: System Theory, Automatic Control, Process Control, Industrial Automation, Flight Mechanics, Flight Dynamics, Flight Control, Aircraft Design.
1993-18	Other technical and scientific activities on Flight Control Systems, UAV, Guidance and Navigation, Nuclear Fusion in tokamaks, Fault detection and isolation, Control theory
2000-08	Responsible of the Control and Automation Laboratory at the Università di Reggio Calabria www.unirc.it
2003-06	Ph.D. Course coordinator, Electrical and Automation Engineering
	(Università di Reggio Calabria <u>www.unirc.it</u> , DIMET <u>www.dimet.unirc.it</u>).
2006-08	Director of the Dept. "Dipartimento di Informatica, Matematica, Elettronica e Trasporti"
2000 00	(Università di Reggio Calabria <u>www.unirc.it</u> , DIMET <u>www.dimet.unirc.it</u>)
2013-15	Member of the Administration board of CRdC Tecnologie Scarl (www.crdctecnologie.it)
2013-13	
2012-14	Director of the Dept. Dipartimento di Ingegneria Industriale e dell'Informazione
2045	Seconda Università di Napoli <u>www.diii.unina2.it</u>
2015-	Member of the Administration board RIMIC Scrl (Rete di Interconnessione Multiservizio Interuniversitaria
	Campana) <u>www.rimic.it</u>
2016-	Member of the Administration board Consorzio CREATE <u>www.create.unina.it</u>
2014-16	Vice-Rector for Reserach - Seconda Università di Napoli
Napoli, 28	3/02/2018 Prof. Massimiliano Mattei
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