

Curriculum Vitae

Surname and Name	Guglieri Giorgio
Home Address	Viale Sempione 24/45 – 20020 Arese (MI)
Phone number	+39 331 6795997
E-mail address	giorgio.guglieri@polito.it
Nationality	Italian
Birth date	04/07/1964

Academic Position

Qualification/Title	Full Professor
University	Politecnico di Torino
Department	Ingegneria Meccanica e Aerospaziale
Academic Field (<i>Settore Concorsuale</i>)	09/A1 Ingegneria Aeronautica, Aerospaziale e Navale
Academic Discipline (Settore Scientifico Disciplinare)	ING-IND/03 – Meccanica del volo (Flight Mechanics)

Working experience

From Sep 23rd, 2016	
Name and address of the Employer (Public or/and private institution/body)	Politecnico di Torino Dipartimento di Ingegneria Meccanica e Aerospaziale Corso Duca degli Abruzzi 24 10129 Torino (TO) Italy
Position held	Full Professor Collegio di Ingegneria Meccanica, Aerospaziale, dell'Autoveicolo e della Produzione, ING-IND/03 – Meccanica del volo (Flight Mechanics)
Main activities/responsibilities	Teaching at Politecnico di Torino (Courses: Helicopter Flight Mechanics (MS – from 2012), Flight Simulation (MS - from 2012), Introduction to Flight Mechanics (BS – from 2012)) Teaching at Politecnico di Milano (Courses: Flight Dynamics (MS – from 2013)) Internal Quality Assurance (Quality manager – department teaching activities) Representative for Politecnico di Torino within Pegasus (Partnership of a European Group of Aeronautics and Space Universities) from April 2015. Research (Flight Mechanics, Flight Simulation, Helicopter Dynamics, Handling Qualities, Uninhabited Aerial Vehicles, Spacecraft Dynamics, Applied Aerodynamics, Wind Tunnel Testing, Experimental Flight Testing, Software Development, Avionics, Human Machine Interface Design, Tele-operation of Robotic Systems, Guidance Navigation and Control, Flight Control System Design). Reviewer for several editorial boards (technical and research journals: Acta Astronautica, Advances in Aircraft and Spacecraft Science, The Aeronautical Journal, Journal of Intelligent & Robotic Systems, IET Control Theory & Applications, International Journal of Advanced Robotic Systems, Proceedings of the Institution of Mechanical Engineers, Journal of Aerospace Engineering, Journal of Guidance, Control and Dynamics, Journal of Aerospace Engineering, Journal of Behavioral Robotics, Journal of Mechanical Engineering Science, Journal of Vibration and Control, Nonlinear Dynamics, International Journal of Systems Science). Member of the steering committee for the doctoral course in Aerospace Engineering. Advisor for inter-university projects (Alta Scuola Politecnica).
From Jan 1st, 2005	
Name and address of the Employer (Public or/and private institution/body)	Politecnico di Torino Dipartimento di Ingegneria Meccanica e

private institution/body)	Aerospaziale (formerly Dipartimento di Ingegneria Aeronautica e Spaziale) Corso Duca degli Abruzzi 24 10129 Torino (TO) Italy
Position held	Associate Professor Collegio di Ingegneria Meccanica, Aerospaziale, dell'Autoveicolo e della Produzione (formerly I Facoltà di Ingegneria) Dipartimento di Ingegneria Meccanica e Aerospaziale ING-IND/03 – Meccanica del volo (Flight Mechanics)
Main activities/responsibilities	Teaching at Politecnico di Torino (Courses: Flight Dynamics II (MS – from 2000 to 2004), Flight Mechanics (BS – from 2001 to 2011), Stability, Control and Flying Qualities (BS – from 2005 to 2010), Helicopter Flight Dynamics (MS – from 2004 to 2011), Mathematical Modeling for Aircraft Dynamics (PhD – from 2007), Helicopter Flight Mechanics (MS – from 2012), Flight Simulation (MS - from 2012), Introduction to Flight Mechanics (BS – from 2012)) Teaching at Politecnico di Milano (Courses: Flight Dynamics (MS – from 2013)) Quality Manager (EASA Part 66 – Accreditation with ENAC – Italian National Civil Aviation Authorities of “Basic Knowledge” courses for Aircraft Maintenance Engineers) for the Aerospace Engineering 1st degree from 2004 to 2014 Internal Quality Assurance (member of the accreditation committee of the Aerospace Engineering courses - Accreditamento Corsi di Studio in Ingegneria Aerospaziale) from 2005 to 2014 President of Comitato Paritetico per la Didattica of Politecnico di Torino (university student-teaching staff joint committee) from 2013 Representative for Politecnico di Torino within Pegasus (Partnership of a European Group of Aeronautics and Space Universities) from April 2015. Member of the steering committee for the Mechanical and Aerospace Engineering Department (Giunta di Dipartimento) from 2012 to 2015 Research (Flight Mechanics, Flight Simulation, Helicopter Dynamics, Handling Qualities, Uninhabited Aerial Vehicles, Spacecraft Dynamics, Applied Aerodynamics, Wind Tunnel Testing, Experimental Flight Testing, Software Development, Avionics, Human Machine Interface Design, Tele-operation of Robotic Systems, Guidance Navigation and Control, Flight Control System Design). Reviewer for several editorial boards (technical and research journals).

	Invited lecturer (technical and professional courses). BS/MS/PhD advisor (advisor for more than 100 BS and MS final projects). Member of the steering committee for the doctoral course in Aerospace Engineering. Advisor for inter-university projects (Alta Scuola Politecnica). Representative of Politecnico di Torino for the continuing and vocational education regional courses for aircraft maintenance engineers "IFTS Tecnico Superiore per la manutenzione degli aeromobili" and "ITS Aerospazio e Meccatronica". Involved (since 1994) in the life of the Mechanical and Aerospace Engineering Department (formerly Aerospace Engineering Department) of Politecnico di Torino as participant or representative in several committees or internal working groups and in charge for some support activities shared with the administrative staff. Co-founder of MAVTech srl (www.mavtech.eu)
From Dec 19th, 1994 To Dec 31st, 2004	
Name and address of the Employer (Public or/and private institution/body)	Politecnico di Torino Dipartimento di Ingegneria Aeronautica e Spaziale Corso Duca degli Abruzzi 24 10129 Torino (TO) Italy
Position held	Assistant Professor I Facoltà di Ingegneria (formerly Facoltà di Ingegneria) Dipartimento di Ingegneria Aeronautica e Spaziale ING-IND/03 – Meccanica del volo (Flight Mechanics)
Main activities/responsibilities	Teaching at Politecnico di Torino (assistant for flight mechanics and flight dynamics courses) Research (Flight Mechanics, Flight Simulation, Flight Control System Design, Helicopter Dynamics, Unmanned Aerial Vehicles, Applied Aerodynamics, Wind Tunnel Testing)
From Oct 1st, 1990 To Dec 18th, 1994	
Name and address of the Employer (Public or/and private institution/body)	Consiglio Nazionale delle Ricerche Centro per lo Studio della Dinamica dei Fluidi Corso Einaudi 40 10129 Torino (TO) Italy
Position held	Researcher
Main activities/responsibilities	Research (Applied Aerodynamics, Wind Tunnel Testing, Flight Mechanics, Data Acquisition and Signal Analysis, Sensors and Calibration) Project principal investigator: "Studio sperimentale di strutture vorticosi su superfici alari in condizioni di volo subsonico" (ref. 0758003/CNR) Project participant: "Sviluppo di tecniche di misura

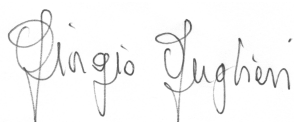
	dei parametri di stabilit� dinamica in galleria del vento" (ref. 0758005/CNR), "Analisi di modelli matematici per lo studio della risposta dinamica di aeromobili ad ala rotante" (ref. 0758004/CNR) and "Modellizzazione matematica del moto del velivolo in condizioni di alta incidenza" (ref. 0758003/CNR).
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Education and Training (please use the following table to describe Degrees awarded, by only indicating the information concerning Bachelor's Degree, Master of Science's Degree or/and PhD)

Date	1989
Institution which issued the degree	Politecnico di Torino
Type of Degree awarded (only Bachelor's Degree, Master of Science's Degree, PhD)	MS Degree in Mechanical Engineering / Laurea (final ranking 110/110)

Turin, 17/02/17

Signature



List of Publications

- Elisa, Capello; Giorgio, Guglieri; Gianluca, Ristorto (2017)
Guidance and control algorithms for mini UAV autopilots. In: AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY
<http://porto.polito.it/view/publication/AIRCRAFT_ENGINEERING_AND_AEROSPACE_TECHNOLOGY.html>, vol. 89 n. 1, pp. 133-144. - ISSN 1748-8842
- Mammarella M.; Capello E.; Guglieri G. (2016)
A Comprehensive Analysis of Guidance and Control Algorithms for Orbital Rendezvous Maneuvers. In: AIAA SPACE and Astronautics Forum and Exposition 2016, Long Beach Convention Center, Long Beach, California, 13-16 September 2016. pp. 1-11
- Dentis, Matteo; Capello, Elisa; Guglieri, Giorgio (2016)
A Novel Concept for Guidance and Control of Spacecraft Orbital Maneuvers. In: INTERNATIONAL JOURNAL OF AEROSPACE ENGINEERING
<http://porto.polito.it/view/publication/INTERNATIONAL_JOURNAL_OF_AEROSPACE_ENGINEERING.html>, vol. Volume 2016. - ISSN 1687-5966
- G. Guglieri; G. Ristorto (2016)
Safety Assessment for Light Remotely Piloted Aircraft Systems. In: INAIR 2016 - International Conference on Air Transport, Vienna (Austria), 10-11/11/16. pp. 1-7
- Franzoni, D.; Guglieri, G.; Masarati, P. (2016)
A Time-Frequency Domain Approach for PIO/PAO Detection and Analysis. In: AHS 72nd Annual Forum, West Palm Beach, Florida (USA), May 17-19, 2016. pp. 1-13
- Guglieri, G.; Mazzetto, F.; Quagliotti, F.; Ristorto, G. (2016)
Tuning of a Terrain Following Remotely Piloted Aircraft System for Crop Monitoring in Precision Agriculture. In: MECHTECH 2016 Conference, Alghero (Italy), 29th May-1st June 2016. pp. 1-4
- P. Masarati, V. Muscarello, G. Quaranta, P. Marguerettaz, G. Guglieri, L. Lu, M. Jump (2015)
A Comprehensive Pilot Model for Voluntary/Involuntary Action in Rotorcraft-Pilot Coupling. In: AHS Forum 71, Virginia Beach, Virginia, USA, May 5-7, 2015. pp. 1-14
- Capello, Elisa; Park, Hyeonjun; Tavora, Bruno; Guglieri, Giorgio; Romano, Marcello (2015)
Modeling and Experimental Parameter Identification of a Multicopter via a Compound Pendulum Test Rig. In: 3rd RED-UAS 2015 - Workshop on Research, Education and Development of Unmanned Aerial Systems, Cancun, Mexico, November 23-25, 2015. pp. 1-10
- G. Guglieri, F. Mazzetto, F. Quagliotti, G. Ristorto (2015)
Monitoring Performances and Cost Estimation of Multirotor Unmanned Aerial Systems in Precision Farming. In: 2015 INTERNATIONAL CONFERENCE ON UNMANNED AIRCRAFT SYSTEMS (ICUAS'15), Denver, USA, June 9-12, 2015. pp. 1-8
- Guglieri, Giorgio; Lombardi, Alessandro; Ristorto, Gianluca (2015)
Operation Oriented Path Planning Strategies for Rpas. In: AMERICAN JOURNAL OF SCIENCE AND TECHNOLOGY
<http://porto.polito.it/view/publication/AMERICAN_JOURNAL_OF_SCIENCE_AND_TECHNOLOGY.html>, vol. 2 n. 6, pp. 1-8. - ISSN 2375-3846
- E. Capello, F. Dabbene, G. Guglieri, E. Punta, R. Tempo (2015)
Rendez-Vous and Docking Position Tracking via Sliding Mode Control. In: 2015 American Control Conference, Chicago, IL, USA, July 1-3, 2015. pp. 1-6
- Ristorto, Gianluca; Mazzetto, Fabrizio; Guglieri, Giorgio; Quagliotti, Fulvia (2015)
Stima e validazione delle prestazioni di un Sistema Aeromobile a Pilotaggio Remoto in Agricoltura di Precisione. In: Conferenza ASITA 2015, Lecco, Italia, 29-30 Settembre - 1 ottobre 2015. pp. 1-10
- A. Bernardini, G. Guglieri, P. Masarati, G. Quaranta (2015)
Voluntary Pilot Action Through Biodynamics for Helicopter Flight Dynamics Simulation. In: JOURNAL OF GUIDANCE CONTROL AND DYNAMICS

<http://porto.polito.it/view/publication/JOURNAL_OF_GUIDANCE_CONTROL_AND_DYNAMICS.html>, vol. 38 n. 3, pp. 431-441. - ISSN 0731-5090

E. Capello; G. Guglieri; F. Quagliotti; R. Tempo (2014)
Autopilot for Small Unmanned Aerial Vehicles. In: The Impact of Control Technology, 2nd edition / T. Samad and A.M. Annaswamy. IEEE Control Systems Society, pp. 1-2. ISBN 9780692242629

L. De Filippis, E. Gaia, G. Guglieri, M. Re, C. Ricco (2014)
Cognitive Based Design of a HMI for Telenavigation of A Space Rover. In: JOURNAL OF AEROSPACE TECHNOLOGY AND MANAGEMENT
<http://porto.polito.it/view/publication/JOURNAL_OF_AEROSPACE_TECHNOLOGY_AND_MANAGEMENT.htm>, vol. 6 n. 4, pp. 1-16. - ISSN 2175-9146

Capello E.; Guglieri G.; Quagliotti F. (2014)
A Comprehensive Robust Adaptive Controller for Gust Load Alleviation. In: THE SCIENTIFIC WORLD JOURNAL
<http://porto.polito.it/view/publication/THE_SCIENTIFIC_WORLD_JOURNAL.html>, vol. 2014 n. 1, pp. 1-12. - ISSN 2356-6140

G. Guglieri; F. Maroglio; P. Pellegrino; L. Torre (2014)
Design and Development of Guidance Navigation and Control Algorithms for Spacecraft Rendezvous and Docking Experimentation. In: ACTA ASTRONAUTICA
<http://porto.polito.it/view/publication/ACTA_ASTRONAUTICA.html>, vol. 94 n. 1, pp. 395-408. - ISSN 0094-5765

G. Guglieri; P. Marguerettaz (2014)
Dynamic Stability of a Helicopter with an External Suspended Load. In: JOURNAL OF THE AMERICAN HELICOPTER SOCIETY
<http://porto.polito.it/view/publication/JOURNAL_OF_THE_AMERICAN_HELICOPTER_SOCIETY.html>, vol. 59 n. 4, pp. 1-12. - ISSN 0002-8711

G. Guglieri; C.E.D. Riboldi (2014)
Introduction to Flight Dynamics. CELID, Torino, pp. 1-236. ISBN 9788867890422

Capello E., Guglieri G., Quagliotti F. (2014)
L1 ADAPTIVE CONTROLLER DESIGN FOR GUST LOAD ALLEVIATION. In: ICAS 2014, San Pietroburgo, Settembre 2014.

L. De Filippis; G. Guglieri; F. Quagliotti (2014)
A Novel Approach for Trajectory Tracking of UAVs. In: AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY
<http://porto.polito.it/view/publication/AIRCRAFT_ENGINEERING_AND_AEROSPACE_TECHNOLOGY.html>, vol. 86 n. 3, pp. 1-12. - ISSN 1748-8842

G. Guglieri, F. Quagliotti, G. Ristorto (2014)
Operational Issues and Assessment of Risk for Light UAVs. In: JOURNAL OF UNMANNED VEHICLE SYSTEMS
<http://porto.polito.it/view/publication/JOURNAL_OF_UNMANNED_VEHICLE_SYSTEMS.html>, vol. 2 n. 4, pp. 119-129. - ISSN 2291-3467

M. Gai, G. Guglieri, M.G. Lattanzi, A. Lombardi, M. Mana, L. Masserano, I. Musso, P. Navone (2014)
A Scientific Mission Based on a High Altitude Stratospheric Balloon. In: INTERNATIONAL JOURNAL OF AEROSPACE SCIENCES
<http://porto.polito.it/view/publication/INTERNATIONAL_JOURNAL_OF_AEROSPACE_SCIENCES.html>, vol. 4 n. 3, pp. 18-29. - ISSN 2169-8872

G. Guglieri; P. Marguerettaz; G. Simioni (2014)
A comparative study of parameter estimation techniques applied to jettisoned external stores. In: THE AERONAUTICAL JOURNAL <http://porto.polito.it/view/publication/THE_AERONAUTICAL_JOURNAL.html>, vol. 118 n. 1203, pp. 1-24. - ISSN 0001-9240

A. Bernardini, G. Guglieri, P. Masarati, G. Quaranta (2014)
A voluntary/involuntary pilot model for helicopter flight dynamics and aeroservoelasticity. In: AIAA Atmospheric Flight Mechanics Conference, AIAA Aviation and Aeronautics Forum and Exposition 2014, Atlanta, 16-20 June. pp. 1-17

Capello E.; Guglieri G.; Quagliotti F.; Sartori D. (2013)
Design and Validation of an Adaptive L1 Controller for Mini-UAV Autopilot. In: JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS
<http://porto.polito.it/view/publication/JOURNAL_OF_INTELLIGENT_=26_ROBOTIC_SYSTEMS.html>, vol. 69 n. 1-4, pp. 109-118. - ISSN 0921-0296

G. Guglieri, D. Sartori (2013)
Design of a Sliding Mode Control for Wing Rock Suppression in Highly-Swept Wing Aircraft. In: INTERNATIONAL JOURNAL OF AEROSPACE SCIENCES
<http://porto.polito.it/view/publication/INTERNATIONAL_JOURNAL_OF_AEROSPACE_SCIENCES.html>, vol. 2 n. 1, pp. 1-10. - ISSN 2169-8872

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Effect of Autopilot Modes on Flight Performances of Electric mini-UAVs. In: THE AERONAUTICAL JOURNAL
<http://porto.polito.it/view/publication/THE_AERONAUTICAL_JOURNAL.html>, vol. 117 n. 1187, pp. 57-69. - ISSN 0001-9240

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Ground Control Station Embedded Mission Planning for UAS. In: JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS
<http://porto.polito.it/view/publication/JOURNAL_OF_INTELLIGENT_=26_ROBOTIC_SYSTEMS.html>, vol. 69 n. 1-4, pp. 241-256. - ISSN 0921-0296

De Filippis L., Guglieri G. (2013)
NMPC and genetic algorithm based approach for trajectory tracking and collision avoidance of UAVs. In: INTERNATIONAL JOURNAL OF INNOVATIVE COMPUTING AND APPLICATIONS
<http://porto.polito.it/view/publication/INTERNATIONAL_JOURNAL_OF_INNOVATIVE_COMPUTING_AND_APPLICATIONS.html>, vol. 5 n. 1, pp. 173-183. - ISSN 1751-648X

L. De Filippis, G. Guglieri, C. Ricco, D. Sartori (2013)
Remote Control Station Design and Testing for Tele-Operated Space-Missions. In: INTERNATIONAL JOURNAL OF AEROSPACE SCIENCES
<http://porto.polito.it/view/publication/INTERNATIONAL_JOURNAL_OF_AEROSPACE_SCIENCES.html>, vol. 2 n. 3, pp. 92-105. - ISSN 2169-8872

E. Capello, G. Guglieri, F. Quagliotti (2013)
A Waypoint-Based Guidance Algorithm for mini UAVs. In: Workshop on Research, Education and Development of Unmanned Aerial Systems, Compiegne, November 2013.

Guglieri G., Marguerettaz P., Bianco Mengotti R., Ragazzi A. (2013)
A comprehensive approach for the prediction and the analysis of the behaviour of jettisoned external loads. In: 39th EUROPEAN ROTORCRAFT FORUM, Moscow, Russia, 3-6 September, 2013. pp. 1-14

De Filippis L., Guglieri G. (2012)
Advanced Graph Search Algorithms for Path Planning of Flight Vehicles. In: Recent Advances in Aircraft Technology / Dr. Ramesh Agarwal Department of Mechanical and Aerospace Engineering, Washington University of St. Louis, USA. InTech - Open Access Publisher, pp. 1-36. ISBN 9799533076354

Capello E., Guglieri G., Quagliotti F., Sartori D. (2012)
Design and Validation of a L1 Adaptive Controller for a mini-UAV Autopilot. In: 2012 International Conference on Unmanned Aircraft Systems (ICUAS'12), Philadelphia, USA, June 12-15, 2012. pp. 1-8

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<http://porto.polito.it/view/publication/JOURNAL_OF_INTELLIGENT_=26_ROBOTIC_SYSTEMS.html>, vol. 65 n. 1-4, pp. 27-42. - ISSN 0921-0296

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Ground Control Station Embedded Mission Planning for UAS. In: 2012 International Conference on Unmanned Aircraft Systems (ICUAS'12), Philadelphia, USA, June 12-15, 2012. pp. 1-15

Guglieri G.; Maroglio F.; Pellegrino P.; Torre L. (2012)
A Ground Facility To Test Gnc Algorithms And Sensors For Autonomous Rendezvous And Docking. In: 1st IAA Conference on Dynamics and Control of Space Systems DyCoSS 2012, Porto, 19-21 March 2012. pp. 933-952

De Filippis L., Guglieri G., Quagliotti F. (2012)
An Innovative Mission Management System for Fixed-Wing UAVs. In: 28th Congress of the Aeronautical Sciences, Brisbane, Australia, 23-28 Septembre 2012. pp. 1-10

Capello E.; Scola A.; Guglieri G.; Quagliotti F. (2012)
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<http://porto.polito.it/view/publication/JOURNAL_OF_AEROSPACE_ENGINEERING.html>, vol. 25 n. 4, pp. 559-573. - ISSN 0893-1321

Avanzini G.; Guglieri G.; Torasso A. (2012)
Multibody Analysis of Terminal Phase for a Reentry Vehicle: A Comparative Study. In: JOURNAL OF AIRCRAFT
<http://porto.polito.it/view/publication/JOURNAL_OF_AIRCRAFT.html>, vol. 49 n. 6, pp. 1940-1952. - ISSN 0021-8669

L. De Filippis, G. Guglieri (2012)
NMPC and Genetic Algorithm Based Approach for Trajectory Tracking of UAVs. In: BIOMA 2012 - 5th International Conference on Bioinspired Optimization Methods and their Applications, Bohinj, Slovenia, 24-25 May 2012. pp. 1-10

De Filippis L., Guglieri G., Quagliotti F. (2012)
A Novel Approach for Trajectory Tracking of UAVs. In: 2nd EASN workshop on Flight Physics and Propulsion, Prague, Czech Republic, 31 October - 2 November 2012. pp. 1-10

G. Guglieri (2012)
Parachute-Payload System Flight Dynamics and Trajectory Simulation. In: INTERNATIONAL JOURNAL OF AEROSPACE ENGINEERING
<http://porto.polito.it/view/publication/INTERNATIONAL_JOURNAL_OF_AEROSPACE_ENGINEERING.html>, vol. 2012, pp. 1-17. - ISSN 1687-5966

De Filippis L.; Guglieri G.; Quagliotti F. (2012)
Path Planning Strategies for UAVS in 3D Environments. In: JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS
<http://porto.polito.it/view/publication/JOURNAL_OF_INTELLIGENT_26_ROBOTIC_SYSTEMS.html>, vol. 65 n. 1-4, pp. 247-264. - ISSN 0921-0296

Capello E.; Guglieri G.; Sartori D. (2012)
Performance evaluation of an L1 adaptive controller for wing-body rock suppression. In: JOURNAL OF GUIDANCE CONTROL AND DYNAMICS
<http://porto.polito.it/view/publication/JOURNAL_OF_GUIDANCE_CONTROL_AND_DYNAMICS.html>, vol. 35 n. 6, pp. 1702-1708. - ISSN 0731-5090

Capello E.; Guglieri G.; Marguerettaz P.; Quagliotti F. (2012)
Preliminary Assessment of Flying and Handling Qualities for mini-UAVs. In: JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS
<http://porto.polito.it/view/publication/JOURNAL_OF_INTELLIGENT_26_ROBOTIC_SYSTEMS.html>, vol. 65 n. 1-4, pp. 43-61. - ISSN 0921-0296

Capello E.; Sartori D.; Guglieri G.; Quagliotti F. (2012)
Robust assessment for the design of multi-loop proportional integrative derivative autopilot. In: IET CONTROL THEORY & APPLICATIONS
<http://porto.polito.it/view/publication/IET_CONTROL_THEORY_26_APPLICATIONS.html>, vol. 6 n. 11, pp. 1-10. - ISSN 1751-8644

Guglieri G. (2012)
Using of Particle Swarm for Performance Optimization of Helicopter Rotor Blades. In: APPLIED MATHEMATICS
<http://porto.polito.it/view/publication/APPLIED_MATHEMATICS.html>, vol. 3 n. 30A, pp. 1-6. - ISSN 2152-7385

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A comprehensive analysis of wing rock dynamics for slender delta wing configurations. In: NONLINEAR DYNAMICS <http://porto.polito.it/view/publication/NONLINEAR_DYNAMICS.html>, vol. 69 n. 4, pp. 1559-1575. - ISSN 0924-090X

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Application of pilot induced oscillations prediction criteria to rotorcraft. In: American Helicopter Society 67th Annual Forum, Virginia Beach, VA, USA, 3-5/5/2011. pp. 1-17

Guglieri G.; Sartori D. (2011)
Experimental Characterization of Actuators for Micro Air Vehicles. In: INTERNATIONAL JOURNAL OF MICRO AIR VEHICLES <http://porto.polito.it/view/publication/INTERNATIONAL_JOURNAL_OF_MICRO_AIR_VEHICLES.html>, vol. 3 n. 2, pp. 49-59. - ISSN 1756-8293

Damilano L., Guglieri G., Quagliotti F., Sale I. (2011)
FMS for Unmanned Aerial Systems: HMI issues and new interface solutions. In: International Conference on Unmanned Aircraft Systems (ICUAS11), Denver CO, USA, Maggio 24-27, 2011. pp. 1-22

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Flight control systems integration on mini UAV. In: Recent Developments in Unmanned Aircraft Systems / Carbonaro & Decuyper. von Karman Institute for Fluid Dynamics, pp. 1-43. ISBN 9782875160171

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Identification of external requirements through surveys with aerospace industries - Functions and competences - Expected learning outcomes. In: Development of Qualifications Framework for Cycles of Higher Education in Aerospace Engineering. Accademia University Press, Torino, pp. 1-260. ISBN 9788897523031

De Filippis L.; Guglieri G.; Quagliotti F. (2011)
A Minimum Risk Approach for Path Planning of UAVs. In: JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS <http://porto.polito.it/view/publication/JOURNAL_OF_INTELLIGENT_26_ROBOTIC_SYSTEMS.html>, vol. 61 n. 1-4, pp. 203-219. - ISSN 0921-0296

Defilippis L., Guglieri G., Quagliotti F. (2011)
Path Planning Strategies For Uavs In 3d Environments. In: International Conference on Unmanned Aircraft Systems (ICUAS11), Denver CO, USA, Maggio 24-27, 2011. pp. 1-19

Capello E., Guglieri G., Marguerettaz P., Quagliotti F. (2011)
Preliminary Assessment of Flying and Handling Qualities for mini-UAVs. In: International Conference on Unmanned Aircraft Systems (ICUAS11), Denver CO, USA, Maggio 24-27, 2011. pp. 1-27

Guglieri G., Quagliotti F., Capello E., Marguerettaz P., Scola A. (2011)
Review of micro and mini UAVs: characteristics and performances. In: Recent Developments in Unmanned Aircraft Systems / Carbonaro & Decuyper. von Karman Institute for Fluid Dynamics, pp. 1-48. ISBN 9782875160171

Guglieri G., Marguerettaz P. (2011)
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