

CURRICULUM VITAE

Marco Lovera

Dipartimento di Scienze e Tecnologie Aerospaziali
Politecnico di Milano



EDUCATION

PhD in Computer Science and Control Engineering, Politecnico di Milano, Milano, Italy, 1998.
MSc in Electronics Engineering, Politecnico di Milano, Milano, Italy, 1993.

PROFESSIONAL EXPERIENCE

- *October 2015-Present*: Coordinator of the Aerospace Systems and Control Laboratory, Dipartimento di Scienze e Tecnologie Aerospaziali (ascl.daer.polimi.it).
- *January 2015-Present*: Full Professor, Dipartimento di Scienze e Tecnologie Aerospaziali, Politecnico di Milano, Milano, Italy.
- *August 2011-December 2014*: Full Professor, Systems and Control Section, Dipartimento di Elettronica, Informazione e Biongegneria, Politecnico di Milano, Milano, Italy.
- *January 2004-July 2011*: Associate Professor, Systems and Control Section, Dipartimento di Elettronica e Informazione (DEI), Politecnico di Milano, Milano, Italy.
- *August 1999-December 2003*: Assistant Professor (Ricercatore), Systems and Control Section, Dipartimento di Elettronica e Informazione, Politecnico di Milano, Milano, Italy.
- *May 1998-July 1999*: at Carlo Gavazzi Space S.p.A. (Milano, Italy), Attitude Determination and Control Specialist, Small Satellite Missions.
- *October 1993-May 1998*: Dipartimento di Elettronica e Informazione, Politecnico di Milano, Milano, Italy, Graduate Assistant (1993-1994) and PhD student (1995-1998).
- *January-May 1997*: visiting scientist at the Systems and Control Laboratory of Delft University of Technology, The Netherlands.
- *July 1992-August 1993*: intern at Westland Helicopters Ltd., Yeovil, UK.

PRESENT TEACHING ACTIVITY

- *Estimation in Aerospace* (8 credits), for the MSc programs in Aeronautical Engineering and Space Engineering, Politecnico di Milano.
- *Advanced Aerospace Control* (6 credits), for the MSc program in Aeronautical Engineering, Politecnico di Milano.
- *Flight Dynamics* (10 credits), for the MSc program in Aeronautical Engineering, Politecnico di Milano.
- *Identification and control for rotary-wing aircraft* (5 credits), for the PhD program in Aerospace Engineering, Politecnico di Milano.

SCIENTIFIC, PROFESSIONAL AND EDITORIAL ACTIVITIES

- Supervisor of more than 10 PhD theses and more than 100 MSc theses.
- Author of more than 200 scientific publications in peer-reviewed journals and international conferences.
- Founding partner of the Politecnico di Milano spin off company ANT-X (www.antx.it).
- Scientific coordinator of the Osservatorio Droni of the of the School of Management of Politecnico di Milano (https://www.osservatori.net/it_it/osservatori/osservatori/droni).

Editorship:

- Associate editor, Automatica (2011-2017).
- Member of the Editorial Board, IET Control Theory and Applications (2007-2015).
- Corresponding Editor for Europe and Africa, IEEE Control Systems Magazine (2009-2014).
- Associate editor, IEEE Transactions on Control Systems Technology (2006-2012).
- Moderator for the cs.SY and math.OC categories of the arXiv (since 2010).
- Guest editor, special issue on “Applied LPV modeling and identification”, IEEE Transactions on Control Systems Technology (Vol. 19, N. 1, 2011).

Services:

- Member of the IEEE CSS Technical Committees on Computer-Aided Control Systems Design (since 2005) and on System Identification and Adaptive Control (since 2006).
- Member of the IFAC Technical Committees on Control Design (from 2005) and on Aerospace (since 2008).
- Member of the IEEE CSS Conference Editorial Board (since 2005 to 2012).
- Chair of the Membership & Admissions Committee of the IEEE CSS (since 2007 to 2011).
- Elected member of the Board of Governors of the IEEE CSS (2013-2015).
- Member of the CEAS Technical Committee on Guidance, Navigation and Control (since 2015).
- Deputy Chair of the CEAS Technical Committee on Guidance, Navigation and Control (from 2017 to 2019).
- Chair of the CEAS Technical Committee on Guidance, Navigation and Control (since 2017).

Conference organisation:

- Organised invited sessions:
 - “Advanced Control Techniques for Future Space Applications”, together with S. Bennani (ESA-ESTEC), 2006 IEEE International Conference on Control Applications, Munich, Germany.
 - “LPV/LFT Modelling and Identification”, together with J.-M. Biannic (ONERA, France), 2008 IEEE Multi-conference on Systems and Control, San Antonio, USA.
 - “Water Systems Management”, together with L. Bako and E. Duviella (Ec. des Mines de Douai, France), 16th IFAC Symposium on System Identification, Brussels, Belgium, 2012.
- Member of the National Organising Committee for the 2001 IFAC Workshop on Periodic Control Systems.
- Publicity Chair for the 2006 IEEE International Conference on Control Applications, IEEE International Symposium on Computer-Aided Control Systems Design and IEEE International Symposium on Intelligent Control.
- IPC member for the 2007 IEEE International Conference on Control Applications.
- Program Chair for the 2008 IEEE International Symposium on Computer-Aided Control Systems Design.
- IPC member and Area Editor for the 2008 IEEE Conference on Decision and Control.
- IPC member for the 2009 IFAC Workshop on Aerospace Guidance, Navigation and Flight Control Systems.
- IPC member for the Sixième Conférence Internationale Francophone d’Automatique, 2010.
- IPC member for the 18th IFAC Symposium on Automatic Control in Aerospace, 2010, 2013, 2016.
- IPC member for the 2010 IEEE International Symposium on Computer-Aided Control Systems Design.
- IPC member for the CEAS Specialist Conference on Guidance, Navigation & Control, 2011, 2013, 2015, 2017.
- Program coChair, 5th IFAC Symposium on System Structure and Control, 2013.
- IPC member for the 2013 IEEE International Symposium on Computer-Aided Control Systems Design.
- IPC member for the 10th UKACC International Conference on Control, 2014.
- IPC member for the IFAC Workshop on Advanced Control and Navigation for Autonomous Aerospace Vehicles, 2015.
- Program Chair, 1st IFAC Workshop on Linear Parameter Varying systems, Grenoble, France, 2015.
- General Chair for the 5th CEAS Specialist Conference on Guidance, Navigation & Control, 2019.