

List of Publications - Lorenzo Marconi - Update: July 2012

A - Books

1. A. Isidori, L. Marconi, A. Serrani, “Robust Autonomous Guidance: An Internal Model-based Approach”, Springer Verlag London, Limited series Advances in Industrial Control, 2003.
2. C. Bonivento, A. Isidori, L. Marconi, C. Rossi (Eds), “Advances in Control Theory and Applications”, Lecture Notes in Control and Information Sciences, Springer Verlag Berlin, 2007.
3. A. Astolfi, L. Marconi (Eds), “Analysis and Design of Nonlinear Control Systems”, Springer Verlag Berlin, 2007.
4. L. Marconi, R. Naldi, “Robust Control of Aerial Robots”, Springer Verlag London, Limited series Advances in Industrial Control, in preparation.

B - Publications on International Journals

In Press / Accepted

1. L. Marconi, R. Naldi, “Towards Aerial Robots”, IEEE CONTROL SYSTEMS MAGAZINE, in press, Scheduled August 2012.
2. A. Isidori, L. Marconi, L. Praly, “Robust design of nonlinear internal models without adaptation”, AUTOMATICA, In press, scheduled October 2012.
3. A. Isidori, L. Marconi, “Adaptive linear regulation for systems with multiple zeros at the origin”, accepted on INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL, January 2012.
4. L. Marconi, A.R. Teel, “Hybrid Linear Regulation”, accepted on IEEE TRANSACTION ON AUTOMATIC CONTROL, May 2012.
5. L. Marconi, R. Naldi, A. Isidori, “High-Gain Output Feedback for a miniature UAV”, accepted on INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL, special issue on High-gain Observers in Nonlinear Feedback Control, February 2012.

6. N. Cox, L. Marconi, A.R. Teel, “High Gain Observers and Hybrid Output Regulation” accepted on INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL, special issue on High-gain Observers in Nonlinear Feedback Control, February 2012.

Published

1. D. Cabecinhas, R. Naldi, L. Marconi, C. Silvestre, R. Cunha, “Robust take-off and landing for a quadrotor vehicle”, IEEE TRANSACTION ON ROBOTICS, Vol. 28, Issue 3, June 2012.
2. L. Marconi, A. Teel, “Disturbance suppression for nonlinear systems stabilizable by logic-based feedback”, AUTOMATICA, Vol 48, Issue 5, 886-893, 2012.
3. L. Marconi, A. Tilli, “Discussion on “A saturated PI velocity controller for voltage-fed induction motors””, EUROPEAN JOURNAL OF CONTROL, Vol 18, Issue 1, 69-73, 2012.
4. L. Marconi, R. Naldi, L. Gentili, “Modeling and control of a flying robot interacting with the environment”, AUTOMATICA, Vol 47, Issue 12, 2571-2583, 2011.
5. A. R. Teel, L. Marconi, “Stabilization for a class of minimum phase hybrid systems under an average dwell-time constraint”, INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL, Special Issue: New Directions on Hybrid Control Systems Volume 21, Issue 10, pages 1178-1192, 10 July 2011.
6. R. Naldi, L. Marconi, “Optimal Transition Maneuvers for a Class of V/STOL Aircrafts”, AUTOMATICA, Vol. 47, n. 5, 870-879, 2011.
7. A. Isidori, L. Marconi, “A Zero-Dynamics Re-Design Approach to Problems of Nonlinear Output Regulation”, DYNAMICS OF CONTINUOUS DISCRETE AND IMPULSIVE SYSTEMS, Series A: Mathematical Analysis, 17, pp- 809-827, 2010.
8. R. Naldi, L. Marconi, L. Gentili and A. Sala, “Design and Experimental Validation of a Nonlinear Control Law for a Ducted-Fan Miniature Aerial Vehicle”, CONTROL ENGINEERING PRACTICE, Vol. 18, 747-760, 2010.
9. L. Marconi, L. Praly, A. Isidori, “Robust Asymptotic Stabilization of Nonlinear Systems with Non-Hyperbolic Zero Dynamics”, IEEE TRANSACTION ON AUTOMATIC CONTROL, Vol 55, n. 4, 907-921, 2010.
10. A. Isidori, L. Praly, L. Marconi, “About the existence of locally lipschitz output feedback stabilizers for nonlinear systems”, SIAM JOURNAL ON CONTROL AND OPTIMIZATION, Volume 48, Issue 5, 3389-3402, 2010.
11. F. Delli Priscoli, A. Isidori, L. Marconi, “A Dissipativity-Based Approach to Output Regulation of Non-Minimum-Phase Systems”, SYSTEMS AND CONTROL LETTERS, Volume 58, Issue 8, 584-591, 2009.

12. B. E. Paden, N. Mirnateghi, L. Gentili, L. Marconi, “Designing Nonlinear Zero Dynamics to Reject Periodic Waveforms”, *ASME JOURNAL OF DYNAMICS SYSTEMS MEASUREMENT AND CONTROL*, Volume 131, Issue 4, July 2009.
13. L. Marconi, R. Naldi, “Aggressive Control of Helicopters in presence of Parametric and Model Uncertainties”, *MECHATRONICS*, Vol. 18, 381-389, Issue 7, 2008.
14. L. Marconi, L. Praly, “Uniform Practical Output Regulation”, *IEEE TRANSACTION ON AUTOMATIC CONTROL*, Vol 53, n. 5, 1184-1202, 2008.
15. F. Celani, A. Isidori, L. Marconi, “A Reduction Paradigm for Output Regulation”, *INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL* , Vol. 18, 756-781, 2008.
16. F. Delli Priscoli, A. Isidori, L. Marconi, “Output regulation with redundant measurements”, *SICE JOURNAL OF CONTROL, MEASUREMENT, AND SYSTEM INTEGRATION*, Vol. 1, No. 2, 92-101, 2008.
17. A. Pavlov, L. Marconi, “Incremental Passivity and Output Regulation”, *SYSTEMS AND CONTROL LETTERS*, Vol. 57, 400-409, 2008.
18. L. Gentili, L. Marconi, B. Paden, “Disturbance Rejection in the Control of a Maglev Artificial Heart”, *ASME JOURNAL OF DYNAMICS SYSTEMS MEASUREMENT AND CONTROL*, Volume 130, Issue 1, 17–27, 2008.
19. L. Marconi, “Discussion on: Attenuation of Oscillations in Galerkin Systems Using Center-Manifold Techniques”, *EUROPEAN JOURNAL OF CONTROL*, Vol. 13, n. 5, 543-545, 2007.
20. L. Marconi, R. Naldi, “Robust Full Degree-of-Freedom Tracking Control of an Helicopter”, *AUTOMATICA*, Vol. 43, 1909-1920, 2007. *Paper within the top 10 hottest articles of Automatica in the period October - December 2007.*
21. L. Marconi, L. Praly, A. Isidori, “Output Stabilization via Nonlinear Luenberger Observers”, *SIAM JOURNAL ON CONTROL AND OPTIMIZATION*, Vol. 45, n. 6, 2277-2298, 2007.
22. L. Marconi, F. Ronchi, A. Tilli, “Robust Nonlinear Control of Shunt Active Filters for Harmonic Current Compensation”, *AUTOMATICA*, Vol. 43, 252-263, 2007.
23. F. Delli Priscoli, L. Marconi, A. Isidori, “A New Approach to Adaptive Nonlinear Regulation”, *SIAM JOURNAL ON CONTROL AND OPTIMIZATION*, Vol. 45, n. 3, 829-855, 2006.
24. F. Delli Priscoli, L. Marconi, A. Isidori, “Adaptive Observers as Nonlinear Internal Models”, *SYSTEMS AND CONTROL LETTERS*, Vol. 55, 640-649, 2006.

25. A. Isidori, L. Marconi, C. De Persis, "Remote Tracking via Encoded Information for Nonlinear Systems", *SYSTEMS AND CONTROL LETTERS*, Vol. 55, 809-818, 2006.
26. D. Angeli, Y. Chitour, L. Marconi, "Robust Stabilization by Saturated Feedback", *IEEE TRANSACTION ON AUTOMATIC CONTROL*, Vol 50, n. 12, 2005.
27. C. Bonivento, L. Gentili, L. Marconi, "Balanced Robust Regulation of a Magnetic Levitation System", *IEEE TRANSACTION ON CONTROL SYSTEMS TECHNOLOGY*, Vol. 13, n. 6, 1036- 1044, 2005.
28. L. Marconi, A. Isidori, A. Serrani, "Non-Resonance Conditions for Uniform Observability in the Problem of Nonlinear Output Regulation", *SYSTEMS AND CONTROL LETTERS*, Vol. 53, n. 3-4, 281-298, 2004.
29. C. Bonivento, A. Isidori, L. Marconi, A. Paoli, "Implicit Fault Tolerant Control: Application to Induction Motors", *AUTOMATICA*, Vol. 40, 355-371, 2004. **Recipient of the "Outstanding Paper Prize Award" in the category "Applications" from the International Federation of Automatic Control (IFAC) - Best work published on Automatica in the period 2002-2005.**
30. L. Marconi, "Semiglobal regulation of linear systems in presence of measurements constraint", *IEEE TRANSACTION ON AUTOMATIC CONTROL*, AC-48, n. 8, 1417-1421, (2003).
31. L. Gentili, L. Marconi, "Disturbance Suppression with Input Constraint of a Magnetic Levitation System", *AUTOMATICA*, 39, 735-742, (2003).
32. A. Isidori, L. Marconi, A. Serrani, "Robust nonlinear motion control of a helicopter", *IEEE TRANSACTION ON AUTOMATIC CONTROL*, AC-48, 413-426, (2003).
33. C. Bonivento, A. Paoli, L. Marconi, "Fault-tolerant control of the ship propulsion system benchmark", *CONTROL ENGINEERING PRACTICE*, 11, 483-494, (2003).
34. L. Marconi, A. Isidori, A. Serrani, "Input Disturbance Suppression for a Class of Uncertain Feedforward Nonlinear Systems", *SYSTEMS AND CONTROL LETTERS*, 45/3, 227-236, March 2002.
35. L. Marconi, A. Isidori, A. Serrani, "Autonomous Vertical Landing on an Oscillating Platform: an Internal-Model Based Approach", *AUTOMATICA*, Vol. 38, No.1, 21-32, January 2002.
36. A. Serrani, A. Isidori, L. Marconi, "Semiglobal Output Regulation with Adaptive Internal Model", *IEEE TRANSACTION ON AUTOMATIC CONTROL*, Vol. 46, No. 8, 1178-1194, August 2001.
37. L. Marconi, G. Marro, C. Melchiorri, "A Solution Technique for Almost Perfect Tracking of Nonminimum-Phase, Discrete-Time Linear Systems", *INTERNATIONAL JOURNAL OF CONTROL*, Volume 74, Number 5, March 2001.

38. C. Bonivento, L. Marconi, R. Zanasi, "Output Regulation of Nonlinear Systems by Sliding Mode", *AUTOMATICA*, Vol 37, No 4, 535-542, April 2001.
39. L. Marconi, A. Isidori, "Robust Global Stabilisation of a Class of Uncertain Feedforward Systems", *SYSTEMS AND CONTROL LETTERS*, Vol. 41, 281-290, 2000.
40. A. Serrani, A. Isidori, L. Marconi, "Semiglobal Robust Output Regulation of Minimum-Phase Nonlinear Systems", *INTERNATIONAL JOURNAL OF ROBUST AND NON-LINEAR CONTROL*, 10:379-396, 2000.
41. L. Marconi, A. Isidori, "Mixed Internal Model-Based and Feedforward Control for Robust Tracking in Nonlinear Control", *AUTOMATICA*, Vol. 36, No. 7, 993-1000, July 2000.

Submitted

1. M. Fumagalli, R. Naldi, R. Carloni, A.Q.L. Keemink, F. Forte, A. Macchelli, S. Stramigioli and L. Marconi, "Quadrotor Interacting with a Remote Environment: Control of a Flying Hand", submitted to the *IEEE Robotics Automation Magazine*, February 2012.
2. R. Naldi, L. Marconi, "Robust Control of Transition Maneuvers for a Class of Tail-Sitter Aircraft", submitted to *AUTOMATICA*, November 2011.
3. L. Marconi, "AIRobots: a "flying-hand to execute dirty jobs safely", submitted to *Atomium Culture*.
4. G. Liu, L. Marconi, "High-Low Gain Redesign for a 4 DOF Spherical Inverted Pendulum", submitted to *IEEE TRANSACTION ON AUTOMATIC CONTROL*, March 2009.

C - Chapters on International Books

1. A. Tilli, L. Marconi, C. Conficoni, "Analysis, Dimensioning and Robust Control of Shunt Active Filter for Harmonic Currents Compensation in Electrical Mains", *Recent Advances in Robust Control - Theory and Applications in Robotics and Electromechanics*, ISBN 978-953-307-421-4 Edited by: Andreas Mueller, pages 342-370.
2. A. Isidori, L. Marconi, "Nonlinear Output Regulation", *The Control Systems Handbook, Second Edition: Control System Advanced Methods*, 2010.
3. F. Delli Priscoli, A. Isidori, L. Marconi, "Nonlinear Output Regulation: Exploring Non-Minimum Phase Systems". In *Control: Three Decades of Progress*, dedicated to Chris Byrnes and Anders Lindquist, edited by Hu, X.; Jonsson, U.; Wahlberg, B.; Ghosh, B.. Springer Verlag, 2010. ISBN: 978-3-642-11277-5

4. A. Isidori, L. Marconi , “Nonlinear locally Lipschitz output regulation in presence of non-hyperbolic zero-dynamics”, in *Emergent Problems in Nonlinear Systems and Control*, edited by Bijoy Ghosh, Clyde Martin and Yishao Zhou. Springer Verlag, Lecture Notes in Control and Information Sciences, vol 393, 2010. ISBN: 978-3-642-03626-2
5. A. Isidori and L. Marconi, “System Regulation and Design, Geometric and Algebraic Methods”. In *Encyclopedia of Complexity and System Science, Section Control and Dynamical Systems* , Springer Verlag, Heidelberg, 2008.
6. L. Marconi and L. Praly, “Essential and redundant internal models in nonlinear output regulation”. In A. Astolfi, L. Marconi (Eds), “Analysis and Design of Nonlinear Control Systems”, Springer Verlag Berlin, 2007.
7. A. Isidori and L. Marconi, “Asymptotic Analysis and Observer Design in the Theory of Nonlinear Output Regulation”. In *Nonlinear Observers and Applications*, Besançon G. (Ed.), Springer Verlag, Lecture Notes in Control and Information Sciences, 181–210, Vol. 363, 2007.
8. L. Marconi and Isidori, “A unifying approach to the design of nonlinear output regulators”. In C. Bonivento, A. Isidori, L. Marconi, C. Rossi (Eds), “Advances in Control Theory and Applications”, Lecture Notes in Control and Information Sciences, Springer Verlag Berlin, 2007.
9. F. Delli Priscoli, A. Isidori, L. Marconi, “Observers as Internal Models for Remote Tracking via Encoded Information”, in T. Meurer, K. Graichen and E. Gilles “Control and Observer Design for Nonlinear Finite and Infinite Dimensional Systems”, Volume 322 / 2005, Lecture Notes in Control and Information Sciences, Springer Verlag 2005.
10. C.I. Byrnes, A. Isidori, D.S. Gilliam, Y. Ikede, and L. Marconi. Internal model based design for the suppression of harmonic disturbances. In A. Rantzer and C.I. Byrnes, editors, *Directions in Mathematical Systems Theory and Optimization*, number 286 in Lecture Notes in Control and Information Sciences. Springer Verlag, New York, NY, 2002.
11. A. Serrani, A. Isidori, C. Byrnes, L. Marconi, “Recent Advances in Output Regulation of Nonlinear Systems”, in A. Isidori, F. Lamnabhi-Lagarrigue, W. Respondek Editors “Nonlinear control in the year 2000”, Springer Verlag, June 2000.
12. L. Marconi, A. Isidori, “On the Stabilization of a Class of Uncertain Systems by Bounded Control”, in A. Isidori, F. Lamnabhi-Lagarrigue, W. Respondek Editors “Nonlinear control in the year 2000”, Springer Verlag, June 2000.
13. L. Marconi, C. Melchiorri, R. Zanasi, “Sliding Mode Output Regulation of Linear and Nonlinear Systems with Relative Degree One”, in A. Tornambè, G. Conte, A.M. Perdon Editors “Theory and Practice of Control and Systems”, Worlds Scientific publishing Co. Pte. Ltd., June 1998.

14. L. Marconi, C. Melchiorri, “The Perfect Tracking Problem for Nonminimum Phase Systems: Applications to Flexible-Link Robots”, in A. Astolfi, D.J.M. Limebeer, C. Melchiorri, A. Tornambè and R. Vinter Editors, “Modelling and Control of Mechanical System”, Imperial College Press, London, UK, June 1997.

D - International Conferences

Accepted/Presented

1. A. Isidori and L. Marconi, “Shifting the Internal Model from Control Input to Controlled Output in Nonlinear Output Regulation”, 51th IEEE Conference on Decision and Control, Maui, USA, 2012.
2. N. Cox, L. Marconi, A. Teel, “Hybrid Internal Models for Robust Splines Tracking”, 51th IEEE Conference on Decision and Control, Maui, USA, 2012.
3. F. Forte, R. Naldi, A. Serrani, L. Marconi, “Control of Modular Aerial Robots”, 51th IEEE Conference on Decision and Control, Maui, USA, 2012.
4. M. Al Janaideh, R. Naldi, L. Marconi, and P. Krejčí, “A Hybrid System for a Class of Hysteresis Nonlinearity: Modeling and Compensation”, 51th IEEE Conference on Decision and Control, Maui, USA, 2012.
5. R. Carloni and L. Marconi, “Limit Cycles and Stiffness Control with Variable Stiffness Actuators”, 2012 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2012), October 2012, Vilamoura, Algarve, Portugal.
6. M. Fumagalli, R. Naldi, A. Macchelli, R. Carloni, S. Stramigioli, L. Marconi, “Modeling and Control of a Flying Robot for Contact Inspection”, 2012 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2012), October 2012, Vilamoura, Algarve, Portugal.
7. A. Torre, D. Mengoli, F. Forte, R. Naldi, A. Macchelli, L. Marconi, “A Prototype of Aerial Manipulator”, 2012 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2012), October 2012, Vilamoura, Algarve, Portugal.
8. L. Marconi, R. Naldi, G. Caprari, E. Zwicker, C. Huerzeler, J. Nikolic, B. Siciliano, V. Lippiello, R. Carloni, S. Stramigioli, F. Basile, P. Chiacchio, “Aerial Service Robotics: the AIRobots Perspective”, 2012 CARPI, 2nd International Conference on Applied Robotics for the Power Industry, Zurich, September 2012.
9. C. Huerzeler, E. Zwicker, G. Caprari, L. Marconi, “Benchmarking Aerial Robots for Inspection of Power and Petrochemical Facilities”, 2012 CARPI, 2nd International Conference on Applied Robotics for the Power Industry, Zurich, September 2012.
10. L. Marconi, R. Naldi, A. Torre, G. Caprari, E. Zwicker, C. Huerzeler, J. Nikolic, B. Siciliano, V. Lippiello, R. Carloni, S. Stramigioli, “Aerial Service Robots: an overview of the AIRobots activity”, Video Contribution to 2012 CARPI, 2nd International Conference on Applied Robotics for the Power Industry, Zurich, September 2012.

11. B. Milosevic, R. Naldi, E. Farella, L. Benini, L. Marconi, “Design and validation of an attitude and heading reference system for an aerial robot prototype”, 2012 American Control Conference, Montréal, Canada, June 2012.
12. R. Naldi and L. Marconi, “Control allocation for a ducted-fan aerial robot”, 2012 American Control Conference, Montréal, Canada, June 2012.
13. F. Forte, R. Naldi, A. Macchelli and L. Marconi, Impedance Control of an Aerial Manipulator , 2012 American Control Conference, Montréal, Canada, June 2012.
14. N. Cox, L. Marconi and A. R. Teel , “Hybrid Output Regulation with Unmeasured Clock”, joint Conference and Decision and Control (CDC) and European Control Conference (ECC), Orlando, 2011.
15. R. Naldi, F. Forte, L. Marconi, “Modular aerial robots, joint Conference and Decision and Control (CDC) and European Control Conference (ECC), Orlando, 2011.
16. V. Cichella, V. Dobrokhodov, I. Kaminer, L. Marconi and R. Naldi , “On 3D path following of a ducted fan UAV in $SO(3)$ ”, joint Conference and Decision and Control (CDC) and European Control Conference (ECC), Orlando, 2011.
17. R. Naldi, F. Brué, F. Forte and L. Marconi, “Design and Experimental Validation of a Prototype of Ducted-Fan Aerial Service Robot, Workshop on Research, Development and Education on Unmanned Aerial Systems (RED-UAS) , Seville, Spain, November 30-December 1, 2011.
18. N. Cox, A. R. Teel, L. Marconi, “Hybrid Output Regulation for Minimum Phase Linear Systems”, 2011 IEEE American Control Conference, San Francisco, 2011.
19. A. Macchelli, L. Marconi, M. Lucci, D. Bertin, “Robust control of a submarine snorkel system” accepted to the 18th IFAC World Congress. Milan 2011.
20. L. Marconi, A. R. Teel, “Design of nonlinear regulators from logic-based stabilizers”, 49th IEEE Conference on Decision and Control, Atlanta, USA, 2010.
21. L. Marconi, A. R. Teel, “A Note About Hybrid Linear Regulation”, 49th IEEE Conference on Decision and Control, Atlanta, USA, 2010.
22. A. Isidori, L. Marconi, L. Praly, “A design solution to the problem of adaptive output regulation for nonlinear minimum-phase systems”, 49th IEEE Conference on Decision and Control, Atlanta, USA, 2010.
23. R. Naldi, L. Marconi, “On Robust Transition Maneuvers for a Class of Tail-Sitter Vehicles”, 49th IEEE Conference on Decision and Control, Atlanta, USA, 2010.
24. A. R. Teel, L. Marconi, “A note on stabilization for a class of minimum phase hybrid systems ”, 8th IFAC NOLCOS, Bologna, September 2010.

25. R. Naldi, L. Gentili, L. Marconi, "Modeling and control of the interaction between flying robots and the environment", 8th IFAC Ncolcos, Bologna, September 2010.
26. R. Naldi and L. Marconi, "Minimum Time Trajectories for a Class of V/STOL Aircrafts", 2010 Chinese Control and Decision Conference (2010 CCDC).
27. D. Cabecinhas, R. Naldi, L. Marconi, C. Silvestre, R. Cunha, "Robust take-off and landing for a quadrotor vehicle". The 2010 IEEE International Conference on Robotics and Automation (ICRA2010).
28. A. Isidori and L. Marconi, "A non-adaptive approach to the problem of tracking uncertain oscillations", 48th IEEE Conference on Decision and Control, Shanghai, China, 2009. Invited lecture.
29. R. Naldi, L. Marconi and L. Gentili, "Robust Takeoff and Landing for a Class of Aerial Robots", 48th IEEE Conference on Decision and Control, Shanghai, China, 2009. Invited Lecture.
30. L. Marconi, R. Naldi and L. Gentili, "A Control Framework for Robust Practical Tracking of Hybrid Automata", 48th IEEE Conference on Decision and Control, Shanghai, China, 2009.
31. F. Delli Priscoli, A. Isidori, L. Marconi, "A method for robust regulation of non-minimum-phase linear systems", 6th IFAC Symposium on Robust Control Design, Haifa, Israel, June 16-18, 2009.
32. A. Isidori, L. Marconi, "A note on regulation of nonlinear non minimum-phase systems with unknown high-frequency gain", 10th European Control Conference, Budapest, Hungary, 23-26 August 2009.
33. R. Naldi, L. Marconi, "Optimal Transition Maneuver for a Class of V/STOL Aircrafts", 10th European Control Conference, Budapest, Hungary, 23-26 August 2009.
34. E. Gruenbacher, L. Marconi, "Idle Mode Control on a Combustion Engine Test Bench via Internal Model Control", 2009 American Control Conference, St. Louis, Missouri, USA, June 2009.
35. L. Gentili, L. Marconi, R. Naldi, A. Sala, "Experimental Framework for a Ducted-Fan Miniature Aerial Vehicle", 2009 American Control Conference, St. Louis, Missouri, USA, June 2009.
36. L. Marconi, L. Praly, A. Isidori, Robust Asymptotic Stabilization of Nonlinear Systems with Non-Hyperbolic Zero Dynamics: Part I, 47th IEEE Conference on Decision and Control, Cancun, Mexico, December 2008.
37. L. Marconi, L. Praly, A. Isidori, Robust Asymptotic Stabilization of Nonlinear Systems with Non-Hyperbolic Zero Dynamics: Part II, 47th IEEE Conference on Decision and Control, Cancun, Mexico, December 2008.

38. L. Gentili, R. Naldi, L. Marconi, Modelling and control of VTOL UAVs interacting with the environment, 47th IEEE Conference on Decision and Control, Cancun, Mexico, December 2008.
39. R. Naldi, L. Marconi, A. Sala, "Modeling and Control of a Miniature Ducted Fan in Fast Forward Flight", 2008 American Control Conference, Seattle, USA, June 2008.
40. A. Isidori, L. Marconi, "A note on robust output feedback stabilization of nonlinear nonminimum phase systems", 17th IFAC World Congress, Seoul, Korea, July 2008.
41. G. Liu, L. Marconi, "High-Low Gain Redesign for a 4 DOF Spherical Inverted Pendulum", 17th IFAC World Congress, Seoul, Korea, July 2008.
42. L. Marconi "Nonlinear Output Regulation and Cross-terms compensation", 7th IFAC NOLCOS 2007, Pretoria, Sud Africa, August 2007.
43. L. Marconi, L. Praly, "Some results on robust output feedback stabilization of nonlinear systems", 7th IFAC NOLCOS 2007, Pretoria, Sud Africa, August 2007.
44. F. Delli Priscoli, A. Isidori, L. Marconi, "Output Regulation: Geometric Viewpoints", 7th IFAC NOLCOS 2007, Pretoria, Sud Africa, August 2007.
45. F. Celani, A. Isidori, L. Marconi, "A Reduction Paradigm for Output Regulation", European Control Conference 2007, Kos, Greece, July 2007
46. L. Marconi, L. Praly, "Practical Output Regulation without High-Gain", 45th IEEE Conference on Decision and Control, San Diego, CA, USA, December 2006.
47. A. Pavlov, L. Marconi, "Incremental passivity and output regulation", 45th IEEE Conference on Decision and Control, San Diego, CA, USA, December 2006.
48. L. Marconi, R. Naldi, "Nonlinear Robust Control of a Reduced-Complexity Ducted MAV for Trajectory Tracking", 45th IEEE Conference on Decision and Control, San Diego, CA, USA, December 2006.
49. J. Hanschke, L. Marconi, A. Tilli, "Averaging Control of the DC-Link Voltage in Shunt Active Filters", 45th IEEE Conference on Decision and Control, San Diego, CA, USA, December 2006.
50. L. Marconi, R. Naldi, "Robust Non Linear Control of a Miniature Helicopter for Acrobatic Manoeuvres", ERF Symposium September 2006.
51. L. Marconi, R. Naldi, "Non Linear Robust Control of a Helicopter for Trajectory Tracking", 8th International IFAC Symposium on Robot Control, Bologna, Italy, September 6 - 8, 2006.
52. L. Marconi, "Nonlinear output regulation: a reasoned overview and new developments", Semi-plenary talk at the 17th International Symposium on Mathematical Theory of Networks and Systems, Kyoto, Japan, July 24-28, 2006.

53. F. Delli Priscoli, A. Isidori, L. Marconi, "A New Approach to Adaptive Nonlinear Regulation", 17th International Symposium on Mathematical Theory of Networks and Systems, Kyoto, Japan, July 24-28, 2006.
54. L. Marconi, L. Praly, A. Isidori, "A new observer for an unknown harmonic oscillator", 17th International Symposium on Mathematical Theory of Networks and Systems, Kyoto, Japan, July 24-28, 2006.
55. L. Marconi, R. Naldi, A. Sala "Modeling and analysis of a reduced-complexity ducted MAV", IEEE Mediterranean Conference on Control and Automation, Ancona, Italy, June 2006.
56. L. Marconi, L. Praly, C. Byrnes, A. Isidori, "Nonlinear Output Regulation without Immersion", 44th IEEE Conference on Decision and Control, Sevilla, December 2005.
57. M. Bejar , L. Marconi, R. Naldi, "Robust Vertical/Lateral/Longitudinal Control of an Helicopter with Constant Yaw-Attitude", 44th IEEE Conference on Decision and Control, Sevilla, December 2005.
58. A. Isidori, L. Marconi, C. De Persis, "Observers as Internal Models for Remote Tracking via Encoded Information", Symposium on Nonlinear Control and Observer Design: From Theory to Applications (SYNCOD), Stuttgart, September-December 2005.
59. C. Bonivento, M. Capiluppi, L. Marconi, A. Paoli, "An integrated design approach to multilevel Fault Tolerant Control of distributed systems", 16th IFAC World Congress, Prague, July 3-8, 2005.
60. C. Byrnes, A. Isidori, L. Marconi, "Further results on output regulation by pure error feedback", 16th IFAC World Congress, Prague, July 3-8, 2005.
61. L. Marconi, F. Ronchi, A. Tilli, "Robust perfect compensation of load harmonics in shunt active filters", 43th IEEE Conference on Decision and Control, The Atlantis Paradise Island - The Bahamas, December 2004.
62. A. Isidori, L. Marconi, "A note on the design of the robust regulator for non-minimum phase linear systems" 43th IEEE Conference on Decision and Control, The Atlantis Paradise Island - The Bahamas, December 2004.
63. C. Bonivento, M. Capiluppi, L. Marconi, A. Paoli, "Distributed fault tolerant control of a two-tanks system", Proceedings of ACD Workshop 2004, Duisburg, November 2004.
64. C. Bonivento, M. Capiluppi, L. Marconi, A. Paoli, "An integrated design approach to multilevel Fault Tolerant Control of distributed systems", Proceedings of ACD Workshop 2004, Duisburg, November 2004.
65. L. Marconi, F. Ronchi, A. Tilli, "Stabilization of the Voltage Internal Dynamics of a Shunt Active Filter", IFAC NOLCOS 2004, Stoccarda, Germania, September 2004.

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75. C. Byrnes, D. Gilliam, A. Isidori, Y. Ikede, L. Marconi, "Internal Model Based Design for the Suppression of Harmonic Disturbances", invited lecture in honor of the 60th birthday of Prof. Anders Lindquist.
76. L. Marconi, A. Serrani, "Global Robust Servomechanism Theory for Nonlinear Systems in Lower Triangular Form", 41th IEEE Conference on Decision and Control, Las Vegas, USA, December 2002.
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78. L. Gentili, L. Marconi, "Disturbance Suppression of a Magnetic Levitation System with Input Constraint", IFAC'02 World Congress, Barcellona, July 2002.
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90. L. Marconi, S. Passini, C. Bonivento, "Error Feedback Sliding Mode Controllers in Output Regulation of Nonlinear Systems", IEEE Conference on Control and Applications, Kohala Coast-Island of Hawai'i, Hawai'i, USA, August 1999.
91. C. Bonivento, L. Marconi, R. Zanasi, "On the Output Regulation of Nonlinear Systems by Sliding Mode", IFAC'99 World Congress, Beijing, China, June 1999.
92. L. Marconi, G. Marro, "On the Relative Degree of Multivariable Linear Systems in Geometric Terms", IEEE Conference on Decision and Control, Tampa, Florida, December 1998.

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94. P. Braschi, L. Marconi, C. Melchiorri, "Comparison of Noncausal Inversion Techniques for Discrete Time Linear Systems: Application to a Flexible Link", IEEE Conference on Control and Applications, Trieste, Italy, September 1998.
95. L. Marconi, A. Isidori, "The Asymptotically Robust Perfect Tracking for Minimum-Phase Nonlinear Systems", IFAC Nonlinear Control System Design Symposium, Enschede, The Netherlands, July 1998.
96. L. Marconi, G. Marro, C. Melchiorri, "A Noncausal Discrete-Time Controller for Flexible-Link Manipulators", IFAC Symp. on Robot Control SYROCO'97, Nantes, F, September 1997.
97. G. Marro, L. Marconi, "Using the Diophantine Equation in the Design of a Digital Perfect Tracking Compensator", European Conference on Control, Brussels, B, July 1997.
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E - National Conferences (with review)

1. C. Bonivento, C. Fantuzzi, L. Marconi, “Fuzzy Control of an Urban Waste Incinerator”, 41-st ANIPLA National Conference, Torino, November 1997.

F - PhD Thesis

1. L. Marconi, “Tracking and Regulation of Linear Nonlinear Systems”, PhD thesis, Bologna, February 1999.