Curriculum vitae **Davide M. Raimondo**

Born: 07-11-1981, Pavia, Italy <u>Office address:</u> Dipartimento di Ingegneria Industriale e dell'Informazione, Università degli Studi di Pavia, Via Ferrata 3, 27100 Pavia, Italy <u>Phone:</u> +39 0382 985354 <u>Fax:</u> +39 0382 985373 <u>Email: davide.raimondo@unipv.it</u>

EDUCATION

Nov. 05 – Nov. 08	UNIVERSITÀ DEGLI STUDI DI PAVIA Ph.D. in electronic, computer and electrical engineering, Identification and Control of Dynamic Systems Laboratory, Department of Computer Engineering and Systems Science. Thesis: Nonlinear Model Predictive Control: Stability, Robustness and Applications. Advisor: Prof. Lalo Magni (Ph.D. thesis defended on January 16, 2009)	Pavia <i>Italy</i>
Oct. 03 – Jul. 05	UNIVERSITÀ DEGLI STUDI DI PAVIA <i>Master</i> in Automatic Control Engineering – Thesis: <i>Robust control of</i> <i>nonlinear systems (110/110 cum laude)</i>	Pavia <i>Italy</i>
Oct. 00 – Sep. 03	UNIVERSITÀ DEGLI STUDI DI PAVIA Bachelor in Computer Science Engineering – Thesis: Modeling and control of a crane (110/110 cum laude)	Pavia <i>Italy</i>
Nov. 00 – Jul. 05	ALMO COLLEGIO BORROMEO <i>Student.</i> Almo Collegio Borromeo has been recognized by the Italian Ministry of Education, Universities and Research as a "Highly qualified cultural institute".	Pavia <i>Italy</i>
Nov. 00 – Nov. 05	INSTITUTE FOR ADVANCED STUDY OF PAVIA (IUSS) Student . In July 2005, IUSS-Pavia was recognized as an independent and autonomous "Scuola Superiore ad ordinamento speciale" in virtue of the excellent quality of the activities carried out, attaining the same status as the Scuola Normale and the Scuola Sant'Anna in Pisa, and the SISSA in Trieste.	Pavia <i>Italy</i>

LANGUAGES

Italian: mother tongue - *english*: proficient - *spanish*: fluent - *german*: basic knowledge.

QUALIFICATIONS

Jan. 14	Qualified at the national level for the position of Associate Professor, section 09/G1 Automatica	Italy
Nov. 05	UNIVERSITÀ DEGLI STUDI DI PAVIA Professional practice examination for engineering licence ("esame di stato") passed in Pavia, Italy.	Pavia <i>Italy</i>

ACADEMIC AND RESEARCH EMPLOYMENT

May 15 -	UNIVERSITÀ DEGLI STUDI DI PAVIA Associate Professor in the Identification and Control of Dynamic Systems Laboratory, Department of Electrical, Computer and Biomedical Engineering	Pavia <i>Italy</i>
Dec. 10 – May 15	UNIVERSITÀ DEGLI STUDI DI PAVIA Assistant Professor (tenured 29/12/2013) in the Identification and Control of Dynamic Systems Laboratory, Department of Electrical, Computer and Biomedical Engineering	Pavia <i>Italy</i>
Jan. 09 – Dec. 10	SWISS FEDERAL INSTITUTE FOR TECHNOLOGY (ETH) Postdoc in the Automatic Control Laboratory, Department of Information Technology and Electrical Engineering	Zürich Switzerland
Nov. 08 – Dec. 08	SWISS FEDERAL INSTITUTE FOR TECHNOLOGY (ETH) Employee in the Automatic Control Laboratory, Department of Information Technology and Electrical Engineering	Zürich <i>Switzerland</i>
Jul. 07 – Jan. 08	UNIVERSITÀ DEGLI STUDI DI PAVIA Contracted for the development of predictive control techniques for biological applications	Pavia <i>Italy</i>
Sep. 05 – Nov. 05	UNIVERSITÀ DEGLI STUDI DI PAVIA Contracted for the Development of robust model predictive controllers for nonlinear systems	Pavia <i>Italy</i>

OTHER WORK EXPERIENCE

Sep. 01 – Jul. 05	ALMO COLLEGIO BORROMEO Responsible of system administration	Pavia <i>Italy</i>
Jul. 00 – Aug. 00	GSMBOX s.p.a. Contracted as computer programmer	Pavia <i>Italy</i>

TEACHING AND STUDENT ADVISING

<u>Lecturer</u>

2014-2015	Basics of Automatic Control, Università di Pavia (~100 hours/year, 9 credits)	Pavia <i>Italy</i>
2013-2014	Basics of Automatic Control, Università di Pavia (~100 hours/year, 9 credits)	Pavia <i>Italy</i>
2012-2013	Automatic Control and Process Control, Università di Pavia (~100 hours/year, 9 credits)	Mantova <i>Italy</i>
2011-2012	Automatic Control and Process Control, Università di Pavia (~100 hours/year, 9 credits)	Mantova <i>Italy</i>

2006-2007	Introduction to systems analysis, Università di Pavia (~20	Pavia
	hours/year, 1 credit)	Italy

<u>Teaching assistant</u>

2009-2011	Model Predictive Control, ETH (seminars, ~10 hours/year)	Zürich <i>Switzerland</i>
2007	Master in Methods for Management of Complex Systems, IUSS, Pavia (seminars ~10 hours)	Pavia <i>Italy</i>
2001 -2005	Tutor of computer programming (Java), Università di Pavia (~50 hours/year)	Pavia <i>Italy</i>

<u>Teaching rating</u>

According to the requirements necessary to apply for the una tantum incentive for the years 2012 and 2013, I declare to have obtained a rating equal to or greater than 7 in the teaching evaluation questionnaires, derived from the average of the items of evaluation D7, D8 and D9:

- <u>D7:</u> Are the arguments clearly stated by the professor?
- <u>D8:</u> Is the professor available for clarifications and explanations?
- <u>D9:</u> Is the schedule of lectures, tutorials and other educational activities respected?

Participation as president in exam committees

- <u>Course</u>: *Basics of Automatic Control*, Università di Pavia, Pavia, Italy Number of evaluated tests: 167 Number of exam sessions: 7
- <u>Course:</u> *Automatic Control and Process Control,* Università di Pavia, Mantova, Italy Number of evaluated tests: 85 Number of exam sessions: 18

<u>Student advising</u>

<u>Master theses</u>

Pavia – Italy

- 1. Optimal placement **of wind turbines** on a continuous domain: an MILP-based approach, A. Arbasini
- 2. **Fast evaluation** of explicit nonlinear MPC, F. Fassina (Erasmus at Ruhr Universität Bochum)
- 3. Automatic remote control of 1:27 scale **race cars**, F. Fiorentino (Erasmus at Ruhr Universität Bochum)
- 4. Optimal placement of **wind turbines** of a wind farm, D. Colli
- 5. Design and implementation of **infrared vision system** and **breaking control** of a small-scale train, A. Barbieri
- 6. Nonlinear model predictive control of **glycaemia** in type 1 diabetic patients, S.

Riverso

- 7. Validation of a linear model predictive control of **glycaemia** in type 1 diabetic patients, G. Ferrario
- 8. Experimentation in silico of predictive control algorithms for the control of **glycaemia** in type 1 diabetic patients, R. Tessera
- 9. Modeling and control of the start-up phase of a **combined cycle power plant**, A. Ferramosca
- 10. Predictive control of the start-up phase of a **combined cycle power plant**, D. Polli

Zürich – Switzerland

- 1. Implementation of **a stochastic reachability** framework for **surveillance** with pan-tilt-zoom cameras, S. Aufdenblatten
- 2. **Reachability** analysis of **nonlinear systems**: an approach based on conservative approximations, O. Huber
- 3. Patrolling algorithms for pan-tilt-zoom cameras, M. Pattarello
- 4. Control of Multiple Cameras for Tracking and **Surveillance**, D. Sturzenegger
- 5. A set theoretic method for verifying feasibility of a **fast** explicit **nonlinear** model predictive **controller**, S. Riverso

Bachelor theses

Pavia – Italy

- 1. Path following control of a Lego Mindstorm mobile vehicle, D. Procop
- 2. **Speed control** of a small scale train with MPC, M. Arcuri
- 3. Design and implementation of a 3D infrared vision system, M. Grecchi
- 4. Adaptive control of an RC helicopter based on the **modeling** of the **lithium battery**, G. Bellazzi
- 5. Design of a remote control system for an **RC helicopter**, A. Ricci
- 6. Embedded tracking control of an inverted pendulum, M. Rotulo
- 7. Embedded predictive control of an inverted pendulum, A. Mezzadra
- 8. Implementation HW and SW of an angular position transducer for a laboratory **crane**, T. Barroero

Zürich – Switzerland

- 1. MPC based Trajectory Tracking for 1:43 scale race cars, L. Wunderli
- 2. Software Framework for Position Control of 1:43 scale race cars, F. Ferrara
- 3. Infrared based **vision system** for tracking 1:43 scale **race cars**, M. Rutschmann

Internship supervision

- 1. Development of control logics of a coal power plant, Erika Strotz
- 2. Standardization of HMI interfactes on injection presses, Daniele Prando

- 3. Development of a distributed control system for the supervision of a **metro station**, Nabih Sawers Ebied Fady
- 4. Implementation of **cryptographic** algorithms for the security of **telemetric data** archives, Lorenzo Merlano

Stage for high school students at the Faculty of Engineering, University of Pavia

2012 – 2014 *Computer Science for automation* (~3hours/year)

Presentation at high schools

2012	Automatic control: from robotics to biomedicine	Mantova
		Italy

ORGANIZATIONAL ACTIVITIES

Jan. 13 –	Head of the	educational	Process Control	Laboratory,	Pavia
	Department	of Electrical,	Computer and	Biomedical	Italy
	Engineering				

OTHER INSTITUTIONAL ACTIVITIES

2012-	Member of the committee for the qualification to the profession	Pavia
	of Computer Science Engineer	Italy

OTHER COMMITTEE MEMBER

2012-	Advisory board member of the Alumni IUSS Association	Pavia
		Italy

RESEARCH ACTIVITY

RESEARCH INTERESTS

Optimization-based control, model predictive control, fault-tolerant control, distributed control, high-speed control, autonomous surveillance, renewable energy and control of glucose concentration in subjects with diabetes.

FUNDED RESEARCH PROJECTS

- PRIN project, Ministero dell'Università e della Ricerca Scientifica e Tecnologica, Italy *Artificial pancreas: physiological models, control algorithms and clinical trial* Pavia Unit: *Predictive control algorithms for the artificial pancreas* (2008 2010) Role: participant.
- FEEDNETBACK (2008-2011) EU's Senventh Framework Programme Role: participant.
- IMPROVE (2009-2012) Implementing manufacturing science solutions to increase equipment productivity and fab performance

European Nanoelectronics Initiative Advisory Council Role: participant.

- AP@HOME (2010-2014) *Bringing the Artificial Pancreas Home* EU's Senventh Framework Programme Role: participant.
- CESI-RICERCA, Centro Elettrotecnico Sperimentale Italiano (2006) Research contract number: ODAR06436 *Optimized procedures for the start-up of combined cycle plants* Role: participant.
- PROJECT PAVIA-BOSTON Project promoted by the Pro-Rector in charge of the Third Mission, University of Pavia. Total contribution: 4k€.

EDITORIAL ACTIVITIES AND PROGRAM COMMITTEES

Editorial Board

May 2015 - Subject editor for the journal Optimal Control Applications and Methods

International Program Committees

2015	International program committee member of the NonlinearSevillaModel Predictive Control 2015 (NMPC'15)Spain	
2015	Conference Editorial Board member of the European ControlLinzConference 2014 (ECC'15)Austria	
2015	International program committee member of the InternationalWhistlerSymposium on Advanced Control of Chemical ProcessesCanada(ADCHEM 2015)Canada	
2014	Conference Editorial Board member of the European ControlStrasbourgConference 2014 (ECC'14)France	
2013	International program committee member of the EuropeanZürichControl Conference 2013 (ECC'13)Switzerland	
2012	International program committee member of the Nonlinear Model Predictive Control 2012 (NMPC'12)Noordwijkerhout The Netherlands	
Organization of scientific events		
2010	Invited session Nonlinear Model Predictive Control, 10th IFACBolognaSymposium on Nonlinear Control SystemsItaly	
2008	Co-chair of the International workshop on Assessment and Future Direction of Nonlinear Model Predictive ControlPavia Italy	
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2007Invited session New Development in NMPC, 7th IFACPretoriaSymposium on Nonlinear Control SystemsSouth Africa

<u>Reviewer activity</u>

Reviewer of Applied Mathematics and Computation, Automatica, IEEE Transaction on Automatic Control, IEEE Transaction on Biomedical Engineering, International Journal of Control, International Journal of Adaptive Control and Signal Processing, International Journal of Robust and Nonlinear Control, International Journal of System Science, Journal of Process Control, SIAM Journal on Control and Optimization, System & Control Letters, Springer Lectures Notes in Control and Information Sciences Series (LNCIS), Conference on Nonlinear Model Predictive Control (NMPC), European Control Conference (ECC), IEEE American Control Conference (ACC), IEEE Conference on Decision and Control (CDC), IFAC World Congress, IFAC Symposium on Nonlinear Control Systems (NOLCOS), IFAC Workshop on Estimation and Control of Networked Systems, International Symposium on Mathematical Theory of Networks and Systems, Mediterranean Conference on Control and Automation.

PH.D. STUDENTS

<u>Ph.D. courses</u>

2015	Model Predictive Control (Special Topics in Cyber-Physical Systems), Computer Engineering PhD School, TU Wien (role: lecturer, ~30 hours)	Vienna <i>Austria</i>
2014	Short course on Moving Horizon Estimation as part of the Hybrid Systems Course, TU Wien (role: lecturer, ~10 hours)	Vienna <i>Austria</i>
2014	Model Predictive Control (Special Topics in Cyber-Physical Systems), Computer Engineering PhD School, TU Wien (role: lecturer, ~30 hours)	Vienna Austria
<u>Advising</u>		
Nov. 12 -	Roberto Giuseppe Marseglia (supervisor: Dr. Davide M. Raimondo) Topic: Fault tolerant control	Pavia <i>Italy</i>
Nov. 13 -	Marcello Torchio (supervisor: Prof. Lalo Magni) Topic: Energy efficient control	Pavia <i>Italy</i>

External Ph.D. thesis committee member

2014	PhD committee member for Feng Xu, Automatic Control Departament, Universitat Politècnica de Catalunya	Barcelona <i>Spain</i>
2013	PhD committee member for Isabel Jurado Flores, Department of Systems Engineering and Automation, University of Seville	Sevilla <i>Spain</i>

Management of seminars and international research exchange visits

Organization of seminars at University of Pavia

Jul. 2013	Joel Paulson,	Process	Systems	Engineering	Laboratory,	Pavia
	Massachusetts	Institute	of Techno	logy, Stochast	ic Nonlinear	Italy

Model Predictive Control with Probabilistic Constraints

- May 2014Prof. Ali Mesbah, Dept. of Chemical and BiomolecularPaviaEngineering, University of California, Berkeley, AdvancedItalyControl for Complex Dynamical SystemsItaly
- Jul. 2013Dr. Joseph K. Scott, Process Systems Engineering Laboratory,
Massachusetts Institute of Technology, Input Design forPavia
Italy
Italy
Guaranteed Fault Diagnosis Using Zonotopes.
- Mar. 2013Stefano Grassi, Department of Civil, Environmental and
Geomatic, ETH Zurich, Optimal spatio-temporal exploitation of
renewable energy resources: biomass and wind case studies.Pavia
Italy

Organization of research exchange visits at University of Pavia

- 1. Dr. Joseph K. Scott, Postdoc, Process Systems Engineering Laboratory, Massachusetts Institute of Technology, duration: 1 month (June-July 2013).
- 2. Joel Paulson, Ph.D. student, Process Systems Engineering Laboratory, Massachusetts Institute of Technology, duration: 1 month (June-July 2014). The visit was possible thanks to the project Cariplo "Support to the internationalization of Ph.D. students".
- 3. Lucas Charles Foguth, Ph.D. student, Process Systems Engineering Laboratory, Massachusetts Institute of Technology, duration: 1 month (June-July 2015). The exchange was possible thanks to the project Pavia-Boston.

Organization of research exchange visits at Massachusetts Institute of Technology (MIT)

- 1. Roberto Marseglia, Ph.D. student, duration: 5 months (August-December 2013).
- 2. Roberto Marseglia, Ph.D. student, duration: 1.5 months (November-December 2014). The visit was possible thanks to the project Pavia-Boston.
- 3. Marcello Torchio, Ph.D. student, duration: 5 months (November 2014-March 2015).

Results in technology transfer

<u>Patents</u>

 Magni L. D. M. Raimondo, G. De Nicolao, C. Dalla Man and C. Cobelli Predictive Control Based System And Method For Control Of Insulin Delivery In Diabetes Using Glucose Sensing, International Patent Application Serial No. PCT/US2008/082063, filed 31/10/2008

Invited seminars, participation to international conferences and research exchange visits

Participation in International Conferences

Overall 16 presentations held at international conferences (SysTol, ECC, NMPC, IFAC WC, IFAC NOLCOS, IFAC NecSys'09, Diabetes Technology Society Annual Meetings).

Invited talks held at International Conferences

Jul. 13	Approximate nonlinear explicit MPC based on reachability analysis, European Control Conference (ECC) 2013	Zürich Switzerland
Papers at invited s	essions of international conferences	
Sep. 10	Fast explicit nonlinear model predictive control via multiresolution function approximation with guaranteed stability, Symposium on Nonlinear Control Systems (NOLCOS) 2010	Bologna <i>Italy</i>
Sep. 10	A Nonlinear Model Predictive Control Scheme with Multirate Integral Sliding Mode, Symposium on Nonlinear Control Systems (NOLCOS) 2010	Bologna <i>Italy</i>
Aug. 07	<i>Regional Input-to-State Stability of Min-Max Model Predictive Control,</i> Symposium on Nonlinear Control Systems (NOLCOS) 2007	Pretoria South Africa
Aug. 07	A Decentralized MPC Algorithm for Nonlinear Systems, Symposium on Nonlinear Control Systems (NOLCOS) 2007	Pretoria South Africa
<u>Research exchange</u>	<u>e visits</u>	
Jan. 15 - Feb. 15	MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT) Visiting scholar in Prof. Braatz group, Department of Chemical Engineering	Cambridge USA
Sep. 14 - Nov. 14	MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT) Visiting scholar in Prof. Braatz group, Department of Chemical Engineering	Cambridge <i>USA</i>
Mar. 14 - May. 14	VIENNA UNIVERSITY OF TECHNOLOGY (TU WIEN) Visiting professor at the Computer Engineering PhD School	Vienna <i>Austria</i>
Aug. 13 - Sep. 13	MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT) Visiting scholar in Prof. Braatz group, Department of Chemical Engineering	Cambridge USA
Mar. 12 - Jun. 12	MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT) Visiting scholar in Prof. Braatz group, Department of Chemical Engineering	Cambridge USA
Oct. 06 – May 07	UNIVERSIDAD DE SEVILLA Academic Guest in the Department of Automation and System Engineering	Sevilla Spain
Invited Seminars		
Apr 15	Real-time Model Predictive Control for Optimal Charging of a Li-ion Battery, TU Wien, Ring Lecture Current Trends in Computer Science	Vienna Austria
May 14	Active Fault Diagnosis for Uncertain Systems, TU Wien, Ring Lecture Current Trends in Computer Science	Vienna Austria

Jan. 14	Active Input Design for Fault Diagnosis: a Set-Based Approach, Automatic Control Laboratory, TU Wien	Vienna <i>Austria</i>
Jan. 14	Active Input Design for Fault Diagnosis: a Set-Based Approach, Automatic Control Laboratory, ABB Schweiz AG	Baden Switzerland
Jan. 14	Active Input Design for Fault Diagnosis: a Set-Based Approach, Automatic Control Laboratory, IfA, ETH	Zürich Switzerland
Sep. 13	Active Input Design for Fault Diagnosis: a Set-Based Approach, Automatic Control Laboratory, EPFL	Lausanne Switzerland
Sep. 13	<i>Design of Active Inputs for Set-Based Fault Diagnosis,</i> Mitsubishi Electric Research Laboratories	Cambridge USA
Apr. 13	<i>Optimal placement of wind turbines,</i> Institute of Cartography and Geoinformation (IKG), ETH	Zürich Switzerland
May 12	<i>Time-optimal control for constrained nonlinear systems: A fast explicit approximation,</i> Process systems engineering laboratory seminar, Department of Chemical Engineering, MIT	Cambridge USA
Jan. 12	An approximate explicit minimum time controller for nonlinear systems with feasibility and stability guarantees, ABB Schweiz AG	Baden Switzerland
Oct. 11	An approximate explicit minimum time controller for nonlinear systems with feasibility and stability guarantees, Ruhr-Universität Bochum	Bochum Germany
May 08	<i>Robust Nonlinear Model Predictive Control,</i> Automatic Control Laboratory, Department of Information Technology and Electrical Engineering, ETH	Zürich Switzerland

BIBLIOMETRIC PROFILE

Davide M. Raimondo currently (December 4, 2014) has an h index of 11 (Scopus) - 14 (Google Scholar) and a number of citations equal to 673 (Scopus) - 1182 (Google Scholar).

Selected Publications

International Journals	Citations	Citations	Impact
	Scopus	Scholar	Factor
1. D.M. Raimondo, M. Rubagotti, C.N. Jones, L. Magni, A.			
Ferrara, M. Morari, Multirate sliding mode			
disturbance compensation for model predictive			2.652
control, International Journal of Robust and			
Nonlinear Control (IJRNC), published online, DOI:			
10.1002/rnc.3244, 2014			

2. N. Kariotoglou, D.M. Raimondo, S. Summers, J. Lygeros, Design of intelligent surveillance systems using stochastic reachability and hierarchical task allocation, Journal of Dynamic Systems, Measurement, and Control, 137(3), 031008, 2014			1.039
3. J. K. Scott, R. Findeisen, R. D. Braatz, D. M. Raimondo, Input Design for Guaranteed Fault Diagnosis Using Zonotopes, Automatica, 50(6),1580-1589, 2014		2	3.132
 M. N. Zeilinger, D. M. Raimondo, A. Domahidi, M. Morari, C. N. Jones, On Real-time Robust Model Predictive Control, Automatica, 50(3), 683-694, 2014 	1	4	3.132
 D. Axehill, T. Besselmann, D. M. Raimondo, M. Morari, A Parametric Branch and Bound Approach to Suboptimal Explicit Hybrid MPC, Automatica, 50(1), 240-246, 2014 		2	3.132
 F. Tedesco, D. M. Raimondo, A. Casavola, Collision avoidance command governor for multi-vehicle unmanned systems, International Journal of Robust and Nonlinear Control (IJRNC), 24(16), 2309–2330, 2014 	1	2	2.652
7. M. Rubagotti, D.M. Raimondo, A. Ferrara and L. Magni, Robust model predictive control with integral sliding mode in continuous-time sampled-data nonlinear systems. IEEE Transactions on Automatic Control, 56(3), 556-570, 2011	20	32	3.167
 L. Magni, D. M. Raimondo, C. Dalla Man, G. De Nicolao, B. Kovatchev, C. Cobelli, Model Predictive Control of glucose concentration in type I diabetic patients: an in silico trial, Biomedical Signal Processing and Control, 4(4), 338-346, 2009 	64	68	1.532
 G. Pin, D. M. Raimondo, L. Magni, T. Parisini, Robust Model Predictive Control of Nonlinear Systems with Bounded and State-Dependent Uncertainties, IEEE Transactions on Automatic Control, 54(7), 1681-1687, 2009 	30	41	3.167
 D. M. Raimondo, D. Limon, M. Lazar, L. Magni and E. F. Camacho, Min-max model predictive control of nonlinear systems: a unifying overview on stability, European Journal of Control, 15(1), 5-21, 2009 	34	53	0.792
 L. Magni, D. M. Raimondo, C. Dalla Man, M. Breton, S. Patek, G. de Nicolao, C. Cobelli, and B. Kovatchev. Evaluating the efficacy of closed-loop glucose regulation via control-variability grid analysis (CVGA). Journal of Diabetes Science and Technology, 2(4), 630-635, 2008 	70	80	n.a.
 12. E. Franco, L. Magni, T. Parisini, M. M. Polycarpou and D. M. Raimondo, Cooperative Constrained Control of Distributed Agents with Nonlinear Dynamics and Delayed Information Exchange: a Stabilizing 	53	85	3.167

Receding Horizon Approach , IEEE Transactions on			
U			
Automatic Control, 53(1), 324-338, 2008			
13. L. Magni, D. M. Raimondo, L. Bossi, C. Dalla Man, G. De			
Nicolao, B. Kovatchev and Claudio Cobelli, Model			
Predictive Control of type 1 diabetes: an in silico	116	138	n.a.
trial, Journal of Diabetes Science and Technology,			
1(6), 804-812, 2007			
14. D. M. Raimondo, L. Magni and R. Scattolini,			
Decentralized MPC of Nonlinear Systems: an	53	86	2.652
Input-to-State Stability Approach, International			
Journal of Robust and Nonlinear Control, 17(17),			
1651-1667, 2007			
15. C. Dalla Man, D. M. Raimondo, R. A. Rizza, C. Cobelli,			
GIM, Simulation Software of Meal Glucose-Insulin	87	134	n.a.
Model, Journal of Diabetes Science and Technology,			
1(3), 323-330, 2007			
16. L. Magni, D. M. Raimondo and R. Scattolini, Regional			
Input-to-state Stability for Nonlinear Model			
Predictive Control, IEEE Transactions on Automatic	85	100	3.167
Control, 51(9), 1548-1553, 2006			

Average numer of citations per publication (selected publications only)

38.375 (Scopus) - 51.688 (Scholar)

Total impact factor (selected publications only): 33.383

<u>Average impact factor (selected publications with available impact factor only)</u>: 2.567

<u>Average impact factor (selected publications only)</u>: 2.086

Full Publication List

Books	Citations Scopus	Citati ons Schol ar
 L. Magni, D.M. Raimondo, F. Allgower (EDS), Nonlinear model predictive control: Towards new challenging applications, Springer Lecture Notes in Control and Information Sciences series, vol. 384, 2009. 		92

International Journals	Citations	Citations	Impact
	Scopus	Scholar	Factor
 D.M. Raimondo, M. Rubagotti, C.N. Jones, L. Magni, A. Ferrara, M. Morari, Multirate sliding mode disturbance compensation for model predictive control, International Journal of Robust and Nonlinear Control (IJRNC), published online, DOI: 			2.652

10.1002/rnc.3244, 2014			
2. N. Kariotoglou, D.M. Raimondo, S. Summers, J.			
Lygeros, Design of intelligent surveillance			
systems using stochastic reachability and			1.039
hierarchical task allocation, Journal of Dynamic			
Systems, Measurement, and Control, 137(3),			
031008, 2014			
3. H. Zisser, E. Renard, B. Kovatchev, C. Cobelli, A.			
Avogaro, R. Nimri, B.A. Buckingham, H.P. Chase, F.J.			
Doyle III, J. Lum, P. Calhoun, C. Kollman, E. Dassau, A.			
Farret, J. Place, M. Breton, C. Dalla Man, S. Del Favero,			
D. Bruttomesso, A. Filippi, R. Scotton, L. Magni, C.			
Toffanin, D.M. Raimondo, G. De Nicolao, M. Phillip, E.			
Atlas, I. Muller, S. Miller, R.W. Beck for the Control to			2.293
Range Study Group, Multi-center Closed-Loop			
Insulin Delivery Study Identifies Challenges for			
Keeping Blood Glucose in a Safe Range by a			
Control Algorithm in Adults and Adolescents with			
Type 1 Diabetes From Various Sites, Diabetes			
Technology and Theurapeutics, 16(10),1-10, 2014			
4. M. Jiang, X. Zhu, M. Molaro, M. Rasche, H. Zhang, K.			
Chadwick, D.M. Raimondo, K.K.K. Kim, L. Zhou, Z. Zhu,			
M. Wong, D. O'Grady, D. Hebrault, J. Tedesco, R.D.			
Braatz, Modification of Crystal Shape through		2	2.235
Deep Temperature Cycling , Industrial &			
Engineering Chemistry Research, 53(13), 5325-5336,			
2014			
5. J. K. Scott, R. Findeisen, R. D. Braatz, D. M.			
Raimondo, Input Design for Guaranteed Fault		2	3.132
Diagnosis Using Zonotopes, Automatica,			
50(6),1580-1589, 2014			
6. M. N. Zeilinger, D. M. Raimondo, A. Domahidi, M.			0.400
Morari, C. N. Jones, On Real-time Robust Model	1	4	3.132
Predictive Control , Automatica, 50(3), 683-694,			
2014			
7. D. Axehill, T. Besselmann, D. M. Raimondo, M.		2	0.400
Morari, A Parametric Branch and Bound Approach		2	3.132
to Suboptimal Explicit Hybrid MPC, Automatica,			
50(1), 240-246, 2014			
8. F. Tedesco, D. M. Raimondo, A. Casavola, Collision			
avoidance command governor for multi-vehicle unmanned systems, International Journal of	1	2	2652
	1	2	2.652
Robust and Nonlinear Control (IJRNC), 24(16),			
2309–2330, 2014 O M Dubagatti D M Daimonda A Farrara and L			
9. M. Rubagotti, D.M. Raimondo, A. Ferrara and L. Magni, Robust model predictive control with			
• •	20	22	2167
integral sliding mode in continuous-time sampled-data nonlinear systems. IEEE	20	32	3.167
Transactions on Automatic Control, 56(3), 556-570,			
2011			
10. L. Magni, D. M. Raimondo, C. Dalla Man, G. De			
Nicolao, B. Kovatchev, C. Cobelli, Model Predictive			
Control of glucose concentration in type I diabetic	64	68	1.532
patients: an in silico trial, Biomedical Signal	07	00	1.332
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Submitted

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Davide M. Raimondo is also coauthor of the following deliverables of the European Project Feednetback FP7 ICT-2007.3.7 Project reference: 223866

- 1. Deliverable D6.1: **Integration of control, communication, computation, complexity and energy considerations in a coherent design strategy**, Davide Raimondo, Peter Hokayem, Stephan Huck, John Lygeros, Manfred Morari, Alireza Farhadi, Carlos Canudas de Wit, Sandro Zampieri, Luca Schenato, Angelo Cenedese, Paul Smyth, Jacek Czyz, Giambattista Gennari
- 2. Deliverable 09.11: **Exploitation Plan,** Costis Kompis, Prateek Sureka, Stephan Huck, Davide Raimondo, Francisco Rubio, Carlo Fischione, Tobias Oechtering, Angelo Cenedese, Luca Schenato, Olivier DeBardonneche, Giambattista Gennari, Piero Donaggio, Paul Smyth, Jacek Czyz

Pavia 11/05/2015

Sincerely, Davide M. Raimondo