

PERSONAL INFORMATION

Fabrizio Dabbene



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Gender Male | Date of birth 03/02/1968 | Nationality Italian

PROFESSIONAL EXPERIENCE

- since 01/10/2019 **Director of Research** at the Institute of Electronics, Telecommunications and Information Engineering (IEIIT) of the Italian National Research Council (CNR), c/o Politecnico di Torino, Torino
- 01/2006–10/2019 **Senior Researcher** at IEIIT-CNR Torino
- 01/2014–01/2020 **National Scientific Abilitation for Full Professor**, sector 09/G1, Automatica
- 09/2001–12/2005 **Tenured Researcher** at IEIIT-CNR Torino
- 06/2000–12/2001 **Chargerd of Research** at Istituto di Ricerca for the Ingegneria of the Telecomunicazioni e l'Informazione (IRITI) of CNR
- 12/1998–05/2000 **Postdoctoral fellow** at Dipartimento di Automatica ed Informatica del Politecnico di Torino
- 02/1999 **Ph.D. in control engineering** from Politecnico di Torino, with a thesis titled "Randomized algorithms for probabilistic robustness analysis and design"
- 05/1995 **Laurea Degree in Ingegneria Elettronica** from Politecnico di Torino, with a thesis titled "New approaches to robustness analysis of systems affected by parametric uncertainty"

PROFESSIONAL MEMBERSHIP

- Senior Member** Institute of Electrical and Electronics Engineers (IEEE)
- Member** Società Italiana Docenti e Ricercatori in Automatica (SIDRA)

PROFESSIONAL ACTIVITY

- Professional Abilitation** Qualification to practice the profession of engineer. State exam passed in the second session of the year 1997
- Professional Consulting** In his career, Dr. Dabbene has provided professional consulting to different companies, for the development of control software and technology, including: :
- *FIAT Auto*: testing of trunk closing system for Fiat Idea
 - *Procter & Gamble*: software for filtering of glue deposition systems
 - *Elettric 80*: path planning and control of a four-wheel steering AVG
 - *Teseo SpA* consulting

**ACTIVITY RELATED TO COVID-19
MODELLING AND CONTROL**

- April 24 2020 Organizer of the [Online-workshop on Modeling and Control of the COVID-19 outbreak “How dynamical models can help control the epidemic”](#)
Workshop organised inside the activities of the IEEE-CSS Italy Chapter
◦ <http://www.ieeecss.it/events/covid.html>
◦ All talks are available online at the IEEE-CSS Italy YouTube page <http://https://bit.ly/IEEECSS-IT-channel>
- September 2020 Co-organizer with Chiara Ravazzi of the [Special session on Modeling and control approaches to the COVID-19](#)
for *Automatica.it*, annual meeting of SIDRA I
◦ <https://www.automatica2020.it>
- December 2020 Co-organizer of the [COVID-19 Focus Sessions](#)
for the 59th IEEE Conference on Decision and Control, involving 18 talks of international researchers and two panel session
◦ <https://cdc2020.ieeecss.org>
- 2020 Author of the entry “Modelling of Pandemics and Intervention Strategies: the COVID-19 Outbreak” by Giulia Giordano and Fabrizio Dabbene, [Encyclopedia of Systems and Control](#) (eds. J. Baillieul and T. Samad)

RESEARCH ACTIVITY**Roles and Responsibilities within CNR**

- 01/2016 – 12/2018 Elected member of the [Advisory Committee](#) (Consiglio d’Istituto) of IEIIT-CNR
since 01/2011 [Coordinator of the Information & Systems Engineering \(ISE\) group](#) at IEIIT-CNR
- 01/2017–12/2019 [Responsible of the Institute Project SCT](#) - “Systems and Control Technologies”
- 01/2013–12/2016 [Responsible of the CNR Commission](#) (Commessa CNR) “Control technologies of/over communication networks”

Roles and Responsibilities within Politecnico di Torino

- since 04/2021 [Member of the PhD Academic Board](#) (Collegio Docenti di Dottorato) del corso di Dottorato in Ingegneria Elettrica, Elettronica e delle Comunicazioni (IEEC), Politecnico di Torino

Roles and Responsibilities within IEEE

- since 01/2019 [Chair of the Italy Chapter of the IEEE Control Systems Society](#)
- 01/2015–12/2016 [Vice President for Publications Activities](#) for the IEEE Control Systems Society (CSS)
◦ achievements obtained as VPPA:
▷ Launch of the new journal [IEEE Control Systems Letters](#) (L-CSS)
<http://iee-csletters.dei.unipd.it/index.php>
▷ Coordination of the Society’s publications for the [IEEE Technical Activities Board five-years review](#). The review was extremely positive
▷ Launch of a new format/style for the [IEEE Transactions on Automatic Control](#)
▷ Launch of the [Virtual Special Issues](#) for the IEEE Transactions on Automatic Control
▷ Launch of the [Control Systems Series](#) for the IEEE-Wiley Press
http://www.ieee.org/conferences_events/conferences/publishing/press_books_css_members.html
- 01/2014–12/2016 [Elected member](#) of the IEEE-CSS Board of Governors
- 01/2015–12/2016 [Chair](#) of the IEEE-CSS Standing Committee on Ethics in Publishing (EiP)
- 01/2015–12/2016 [Member](#) of the IEEE-CSS Long Range Planning Committee (LRPC)
- 06/2010–12/2013 [Chair](#) of the IEEE-CSS Technical Committee on Computational Aspects of Control Systems Design (CACSD)
- 01/2010–12/2012 [Vice-Chair](#) of the IEEE-CSS Technical Committee on Systems with Uncertainty (TC-SU)

- since 01/2012 **Member** of the IEEE-CSS Technical Committee on System Identification and Adaptive Control (TC-SIAC)
- 01/2008–06/2010 **Co-chair** of the Action Group on “Probabilistic and Randomized Methods in Control” of the TC-CACSD

Roles and Responsibilities within IFAC

- 01/2023–present **NMO representative for Italy** at the International Federation of Automatic Control (IFAC)
- 02/2017–12/2022 **Vice NMO representative for Italy** at the International Federation of Automatic Control (IFAC)
- 08/2020–08/2023 **Vice-Chair on Publications** for the IFAC Technical Committee 2.5 on Robust Control
- 08/2011–08/2017 **Chair** of the IFAC Technical Committee 2.5 on Robust Control

Grants and Project Responsibilities

- 01/2020–12/2024 **Scientist-in-charge** for CNR partner for the Marie Skłodowska-Curie Action (MSCA) Innovative Training Networks (ITN) H2020-MSCA-ITN-2019 “*Big dAta aNalytics for radio Access Networks*” (BANYAN). Grant code 860239
- 07/2019–07/2022 **Coordinator and Principal Investigator of the CNR Unit for the National PRIN Project** “*New technical and operative solutions for the use of drones in Agriculture 4.0*”(AGRIDrones). Grant €141,000
- 10/2017–12/2018 **Principal Investigator of the Project** “*Studio e progettazione di un Sistema Integrato di Navigazione automatica per veicoli AGRICOLI in contesti particolari*” (SINAGRI), subcontracting activity with Dip. di Scienza Agrarie, Forestali e Alimentari, Università di Torino, Project MANUNET Elettroagri. Grant €10,000
- 01–06/2018 **Principal Investigator of the project** “*Randomization-based techniques for uncertain systems - part 2*” (RABUS-2), subcontracting activity with Politecnico di Torino, European Project CLEAN SKY 2. Grant €12,000
- 02/2015–12/2018 **Principal Investigator Joint Lab Project** “*Cooperative Control for Energy Management Systems*” (COOPS), between CNR and the Department of Information and Physical Sciences, Osaka University, Japan
Japanese PI: Prof. Yasumasa Fujisaki. Grant €145,000
- 01–05/2017 **Principal Investigator of the project** “*Randomization-based techniques for uncertain systems*” (RABUS), subcontracting activity with Politecnico di Torino, European Project CLEAN SKY 2. Grant €28,000
- 09/2015 **Recipient of Short Term Mobility Project** “*Simple Nonconvex rePresentations of complex SETS*” (SiNPLE-SETS)
Hosting institution: Dept. of Electrical Engineering, The Pennsylvania State University, PA, USA
- 11/2014 **Responsible for CNR of the Short Term Mobility Project** “*Distributed estimation algorithms robust against cyber attacks in power systems*”
Foreign recipient: Prof. Hideaki Ishii
- 10/2013 **Responsible for CNR of the Short Term Mobility Project** “*Extracting actionable data from extremely large data sets: a systems approach*”
Foreign recipient: Prof. Constantino M. Lagoa
- 01/2012–12/2013 **Principal Investigator del Progetto Bilaterale** “*Convex optimization and randomized algorithms for robust control*” (CORARC), Bilateral project between CNR and Laboratoire d’analyse et d’architecture des systèmes (LAAS) of the Centre National de la Recherche Scientifique (CNRS), Toulouse, France
CNRS PI: Prof. Dimitri Peaucelle
- 12/2012–12/2013 **Principal Investigator of the research contract** between IEIT-CNR and the company titled “*Route optimization for traffic-enhancement (Root-E) – Step3*”
IEIT-CNR was leading a team composed by CNR, Università degli Studi di Genova, and Politecnico di Torino
- 06/2011–06/2012 **Principal Investigator of the research contract** between IEIT-CNR and the company *Elettric80* titled “*Prototyping and field test of AGV traffic manager*”

- 05/2009–05/2010 **Principal Investigator of the research contract** between IEIT-CNR and the company *Elettric80* titled “Design and Optimization of AGV Traffic Management”
- 01/2007–12/2009 **Principal Investigator of the CNR curiosity-driven project** “*Metodi deterministici e probabilistici per il data mining e la pattern recognition*”
- 01/2009–12/201 **Vice-responsible of the CNR Unit for the National PRIN Project** “*Metodologie avanzate per il controllo in retroazione di sistemi nonlineari incerti*”
- 06/2008 **Recipient of Short Term Mobility Project** “*Path planning and collision avoidance using subharmonic functions and randomized polynomials*”
Hosting institution: Dept. of Electrical Engineering, The Pennsylvania State University, PA, USA
- 04/2008–04/2009 **Principal Investigator of the research contract** between IEIT-CNR and the company *Elettric80* titled “Path planning and control of a four-wheel steering AVG”

EDITORIAL ACTIVITY

- 01/2022–10/2022 **Guest Editor** of the Special Issue “State-of-the-art Applications of Model Predictive Control” for the *IEEE Transactions on Control Systems technology*
- 2019 **Section Editor** for the Encyclopedia of Systems and Control, 2 ed, Springer-Verlag. Section: *Complex and Uncertain Systems*
- since 01/2018 **Senior Editor** of the *IEEE Control Systems Letters*
- since 01/2017 **Steering Committee Member** of the *IEEE Control Systems Letters*
- since 01/2015 **Liaison representative** for IEEE CSS at IEEE-Wiley Press
- 01/2015–12/2016 **Steering Committee Member** of the *IEEE/ACM Transactions on Computational Biology & Bioinformatics*
- 01/2015–12/2016 **Liaison representative** of IEEE CSS at *IEEE Transactions on Pattern Analysis and Machine Intelligence*
- 01/2015–12/2016 **Liaison representative** of IEEE CSS at *IEEE Transactions on Image Processing*
- 01/2015–12/2016 **Liaison representative** of IEEE CSS at *IEEE Technical Activities Board Magazine Committee*
- 01/2015–12/2016 **Liaison representative** of IEEE CSS at *IEEE Technical Activities Board Newsletters Committee*
- 01/2015–12/2016 **Liaison representative** of IEEE CSS at *IEEE Technical Activities Board Transactions Committee*
- 11/2012–08/2013 **Guest Editor** of the Special Issue “Relaxation methods in identification and estimation problems” for the *IEEE Transactions on Automatic Control*
- 01/2009–12/2012 **Associate Editor** of the *IEEE Transactions on Automatic Control*
- 04/2008–12/2014 **Associate Editor** of *Automatica* (Elsevier)
- 01/2001–12/2008 **Associate Editor** at Conference Editorial Board (CEB) of IEEE CSS

ORGANIZATION OF INTERNATIONAL CONFERENCES

- 2022 **General Chair** of the IEEE Conference on Control Technology and Applications (CCTA 2022), Trieste, Italy, August 2022
- 2017 **Program Chair** of the Workshop on Uncertain Dynamical Systems (WUDS 2017), Banyeuils, France, 5-7 July 2017
- 01/2016 **Member dell’International Advisory Committee** 2016 IEEE First International Conference on Control, Measurement and Instrumentation (CMI 2016), Kolkata, India, 8-10 gennaio 2016
- 2014 **Program Chair** Workshop on Uncertain Dynamical Systems (WUDS 2014), Amsterdam, The Netherlands, 20-22 August 2014
- 2013 **Exhibit Chair** 52nd IEEE Conference on Decision and Control (CDC 2013), Firenze, Italy , December 2013
- 2013 **Workshop Chair** 52nd IEEE Conference on Decision and Control (CDC 2013), Firenze, Italy , December 2013

- 2010 **Program Chair** *IEEE International Symposium on Computer-Aided Control System Design, Multi-conference on Systems and Control (MSC 2010)*, Yokohama, Giappone, September 2010
- 07/2020 **Congress Technical Associate Editor** 21st IFAC World Congress, Berlin, Germany, 12-17 July 2020
- 07/2017 **Congress Technical Associate Editor** 20th IFAC World Congress, Toulouse, France, 9-14 July 2017
- 08/2014 **Congress Technical Associate Editor** 19th IFAC World Congress, Cape Town, South Africa, 24-29, August 2014
- 08/2011 **Congress Technical Adjoint Editor** 18th IFAC World Congress, Milano, Italy , 28 August 2 September 2011
- 08/2011 **Associate Editor** Joint IEEE Conference on Decision and Control and European Control Conference (CDC-ECC 2005), Seville, Spain, 12-15 December 2005
- 2005–2020 **International Program Committee Member** of the following conferences:
- ▷ *10th IFAC Symposium on Robust Control Design (ROCOND'22)*, Kyoto, Japan, August 2022
 - ▷ *2nd IEEE International Conference on Human-Machine Systems (IEEE ICHMS 2021)*, Magdeburg, Germany, September 2021
 - ▷ *21st IFAC World Congress*, Berlin, Germany, 20-24 July 2020 (Congress Technical Associate Editor)
 - ▷ *1st IEEE International Conference on Human-Machine Systems (ICHMS 2020)* Rome, Italy, April 6-8, 2020
 - ▷ *9th IFAC Symposium on Robust Control Design (ROCOND'18)*, Florianopolis, Brazil, September 3-5, 2018
 - ▷ *Fifth Indian Control Conference (ICC 2019)*, IIT Delhi, India, January 9-11 2019
 - ▷ *Fourth Indian Control Conference (ICC 2018)*, IIT Kanpur, India, January 4-6, 2018
 - ▷ *18th IFAC Symposium on System Identification (SYSID 2018)*, Stockholm, Sweden, July 9-11, 2018
 - ▷ *Third Indian Control Conference (ICC 2017)*, Indian Institute of Technology, Guwahati, India, January 4-6, 2017
 - ▷ *Conference on Control Applications, IEEE Multiconference on Systems and Control (MSC 2016)*, Buenos Aires, Argentina, 19-22 September 2016
 - ▷ *16th IFAC Workshop on Control Applications of Optimization (CAO 2015)*, Garmisch-Partenkirchen, Germany, 6-9 October 2015
 - ▷ *Second Indian Control Conference (ICC 2016)*, Indian Institute of Technology, Hyderabad, India, January 4-6, 2016
 - ▷ *IEEE Multiconference on Systems and Control (MSC 2015)*, Sydney, Australia, 21-23 September 2015
 - ▷ *5th IFAC Conference on Nonlinear Model Predictive Control (NMPC 2015)*, Sevilla, Spain, September 2015
 - ▷ *8th IFAC Symposium on Robust Control Design (ROCOND'15)*, Bratislava, Slovakia, July 2015
 - ▷ *1st IFAC Workshop on Linear Parameter Varying Systems (LPVS 2015)*, Grenoble, France, October 2015
 - ▷ *First Indian Control Conference (ICC 2015)*, Indian Institute of Technology, Madras, India, January 5-7, 2015
 - ▷ *11th Int. Conf. on Informatics in Control, Automation and Robotics (ICINCO 2014)*, Vienna, Austria, 8-10 September 2014
 - ▷ *3rd IFAC Int. Conf. on Intelligent Control and Automation Science (ICONS 2013)*, Chengdu, China, 2-4 September 2013
 - ▷ *IEEE Multiconference on Systems and Control (MSC 2015)*, Hyderabad, India, 27-30 August 2013
 - ▷ *10th Int. Conf. on Informatics in Control, Automation and Robotics (ICINCO 2013)*, Reykjavik, Island, 29-31 July 2013
 - ▷ *14th IEEE International Multitopic Conference (INMIC 2011)*, Karachi, Pakistan, 22-24 December 2011
 - ▷ *48th IEEE Conference on Decision and Control (CDC 2009)*, Shanghai, China, 16-18 December 2009
 - ▷ *IEEE Multiconference on Systems and Control (MSC 2008)*, San Antonio, Texas, USA, 3-5 September 2008

AWARDS AND RECOGNITIONS

- 2019 **Best Paper Award, ASCC2019**
I. Masubuchi, T. Wada, Y. Fujisaki, "A New Distributed Constrained Multi-Agent Optimization Protocol with Convergence Proof via Exactness of Penalized Objective Function," 12th Asian Control Conference, 2019
- 2018 **Publication Award of the University of Stuttgart**
"Constraint-tightening and stability in stochastic model predictive control," M. Lorenzen, F. Dabbene, R. Tempo, and F. Allgöwer, *IEEE Transactions On Automatic Control*, 62(7), 2017

- 2017 **Best Young Author Journal Paper Award 2017, IEEE CSS Italy Chapter**
"Robust Linear Static Anti-Windup With Probabilistic Certificates," S. Formentin, F. Dabbene, R. Tempo, L. Zaccarian, and S.M. Savaresi *IEEE Transactions On Automatic Control*, 62(4), 2017
- 2014 **Certificate of Outstanding Service, Automatica**, "For his outstanding activity as Associate Editor of Automatica – Term of office 2008 – 2014"
- 2010 **EurAgEng Outstanding Paper Award**
F. Dabbene, P. Gay e N. Sacco, "Optimisation of fresh food supply chains in uncertain environments, Part II: a case study," *Biosystems Engineering*, 99(3), 2008, 360-371

PLENARIES

- 28/4/2018 **Plenary International Conference on Systems, Control, Signal Processing and Informatics (SCSI 2018)** Venezia, Italy, April 28-30, 2018
Keynote title: "Optimal Power Flow Design in the Presence of Renewable Energies: Efficient Sampling-Based Solutions"
- 10/7/2017 **Plenary IFAC World Congress (IFAC 2017)** Toulouse, France, July 10-14, 2017
Talk in Plenary Session in memory of Roberto Tempo, title: "Randomized Algorithms for Analysis and Design of Uncertain Systems: Roberto's Legacy"
- 21/09 2016 **Plenary Society of Instrument and Control Engineers Annual Conference (SICE 2016)**, Tsukuba, Giappone, Settembre 20-23, 2016
Keynote title: "Design under uncertainty: a probabilistic approach"

PROJECT PROPOSALS EVALUATION

- 2021 **Member of the Group of Expert Evaluators** (gruppo di esperti valutatori GEV-09) for the Valutazione della Qualità della Ricerca (VQR 2015-2019), Agenzia Nazionale di Valutazione del Sistema Universitario e della Ricerca
More than 500 research products evaluated.
- 2018 **Scientific reviewer** for TOP Grant Call for senior researchers for the Netherlands Organization for Scientific Research (NWO)
- 2016-2017 **Technical-scientific reviewer for MISE** Evaluation for CNR of project proposals to Ministero dello Sviluppo Economico (MISE) in the context of D.M.1/6/2016, Fondo per la Crescita Sostenibile (FCS),
Project evaluated:
- Panel Fabbricazione e Trasformazioni Avanzate (FTA), President A. Sanson:
- Call Horizon 2020 - PON2014/2020, pos. 311,
- Panel Information and Communication Technologies (ICT), President G. Veruggio:
- Call Horizon 2020, pos. 198
- Call Agenda Digitale, pos. 3
- Call Agenda Digitale, pos. 4
- Call Grandi Progetti PON - Agenda Digitale, pos. 2
- 2011-2020 **Scientific reviewer** of project proposals presented to the Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI), Romania
Projects evaluated:
- Call PN-III-P1-1.1-TE-2019: 5 projects
- Call PN-III-P1-1.1-PD-2019: 2 projects
- Call PN-III-P2-2.1-PED-2019:10 projects
- Call PN-III-P4-ID-PCE-2016: 15 projects
- Call PN-II-PT-PCCA-2011: 14 projects
- Call PN-II-ID-PCE-2011: 8 projects
- 2016 **Scientific reviewer** of project proposals presented to the Agence Nationale de la Recherche (ANR), Francia
Projects evaluated:
- Call PRCE-2016: 9 projects

- 2009 **Member of the Best Student Paper Award Committee** for the 48th IEEE Conference on Decision and Control, Baltimore, USA
- 2006 **Member of the Best Student Paper Award Committee** for the 45th IEEE Conference on Decision and Control, San Diego, USA
- 2005 **Member of the Poster Paper Prize Committee** for the IFAC World Congress, Prague, Czech Republic

TEACHING ACTIVITY

Dr. Dabbene has an intense teaching experience, holding several courses at Politecnico di Torino, Università degli Studi di Torino, and for the University of Illinois at Chicago at Politecnico di Torino. Some recent courses taught:

- **Controlli automatici**, Corso di Laurea in Elettronica, Politecnico di Torino, A.A. 2019-2020 / 2020-2021 / 2021-2022
- **Dinamica e controllo di veicoli spaziali**, Corso di Laurea Magistrale In Ingegneria Aerospaziale, Politecnico di Torino – 12h block devoted to Advanced for Spacecraft Control, A.A. 2019-2020 / 2020-2021 / 2021-2022
- **Space telecommunications, GNC and avionics**, Master Universitario di II Livello In Space Exploration And Development Systems (SEEDS) - Torino, Politecnico di Torino – 12h block devoted to Advanced for Spacecraft Control, A.A. 2018-2019 / 2020-2021 / 2021-2022
- **Modelling and simulation of mechatronic systems**, Laurea Course in Mechatronic Engineering, Politecnico di Torino, A.A. 2018-2019, (in English)
- **Linear algebra and geometry**, Laurea Course in Engineering, Politecnico di Torino, A.A. 2016-2017 / 2017-2018 / 2018 / 2019, (in English)
- **Convex optimization and engineering applications**, Laurea Course in Electronic Engineering, Politecnico di Torino, A.A. 2016-2017, (in English)
- **Randomized Algorithms for Systems and Control: Theory and Applications**, European Embedded Control Institute, Supélec, Paris, January 2013
- **Algoritmi Randomizzati for the Analisi ed il Controllo di Sistemi Incerti**, Corso di Dottorato Politecnico di Milano, Ottobre 2002.
- **Analysis of Linear and Nonlinear Dynamical Systems**, Master Course in Automatica and Control Technologies (MACT), Politecnico di Torino, A.A. 2010-2011 / 2011-2012 (in English)
- **Principles of Automatic Control**, Laurea Course in Automotive Engineering, Politecnico di Torino, A.A. 2009-2010, (in English)

PUBLICATIONS

F. Dabbene has published two books, one edited book, and more than 130 papers in international journals and peer-review conferences. Some selected publications are listed next.

Bibliographic Pointers ResearcherID: A-7927-2010
ORCID: 000-0002-2258-8971
Scopus Author ID: 6602558845

Bibliographic Indicators [Google Scholar Cites 5,320](#) *h-index: 31*
[Scopus Cites 2,523](#) *h-index: 25*

Scientific monographs

- [M1] R. Tempo, G. Calafiore, [F. Dabbene](#)
[Randomized Algorithms for Analysis and Control of Uncertain Systems: with Applications](#), Second Edition, Springer-Verlag, London, 2013
- [M2] G. Calafiore, [F. Dabbene](#) (Editors)
[Probabilistic and Randomized Methods for Design under Uncertainty](#), Springer-Verlag, London, 2006
- [M3] R. Tempo, G. Calafiore, [F. Dabbene](#)
[Randomized Algorithms for Analysis and Control of Uncertain Systems](#), Springer-Verlag, London, 2005

International patents

- [BI1] R. Olmi, D. Di Terlizzi, [F. Dabbene](#), F. Della Croce, M. Ghirardi
"Device and Method of Optimising the Movement of Automated-Guided Vehicles, and the Like"
[Patent. Nr. WO/2015/011661](#), Patent Assignee: Elettric 80 SPA

Journal papers

- [J1] P.F. De Paola, A. Paglialonga, P. Palumbo, K. Keshavjee, [F. Dabbene](#), A. Borri "The Long-Term Effects of Physical Activity on Blood Glucose Regulation: A Model to Unravel Diabetes Progression," *IEEE Control Systems Letters*, 7, 2916-2921, 2023
o DOI: 10.1109/LCSYS.2023.3290774
- [J2] F. Blanchini, [F. Dabbene](#), G. Fenu, F. A. Pellegrino, E. Salvato, "Model-Free Feedback Control Synthesis From Expert Demonstration," *IEEE Control Systems Letters*, 7, 1604-1609, 2023
o DOI: 10.1109/LCSYS.2023.3251575
- [J3] S. Narteni, M. Muselli, [F. Dabbene](#), M. Mongelli "Trustworthy artificial intelligence classification-based equivalent bandwidth control" *Computer Communications*, 209, 260-272, 2023
o DOI: 10.1016/j.comcom.2023.07.005
- [J4] V. Breschi, C. Ravazzi, S. Strada, [F. Dabbene](#), M. Tanelli "Driving electric vehicles' mass adoption: An architecture for the design of human-centric policies to meet climate and societal goals," *Transportation Research Part A: Policy and Practice*, 171, 103651, 2023
o DOI: 10.1016/j.tra.2023.103651

- [J5] M. Mammarella, A. Altamimi, M. Chamanbaz, F. Dabbene, C. Lagoa "Fast Stochastic MPC Implementation via Policy Learning," *IEEE Control Systems Letters*, 6, 3020-3025, 2022
o DOI: 10.1109/LCSYS.2022.3182643
- [J6] C. Ravazzi, F. Malandrino, F. Dabbene "Towards Proactive Moderation of Malicious Content via Bot Detection in Fringe Social Networks," *IEEE Control Systems Letters*, 6, 2960-2965, 2022
o DOI: 10.1109/LCSYS.2022.3182291
- [J7] C. Donati, M. Mammarella, L. Comba, A. Biglia, P. Gay, F. Dabbene, "3D distance filter for the autonomous navigation of UAVs in agricultural scenarios" *Remote Sensing*, 14(6), 1374; 2022
o DOI: 10.3390/rs14061374
- [J8] C. Ravazzi, F. Bullo, F. Dabbene, "Unveiling Oligarchy in Influence Networks from Partial Information" *IEEE Transactions on Control of Network Systems*, 10(3), 1279-1290, 2023
o DOI: 10.1109/TCNS.2022.3225299
- [J9] M. Bini, P. Frasca, C. Ravazzi, F. Dabbene, "Graph structure based Heuristics for Optimal Targeting in Social Networks" *IEEE Transactions on Control of Network Systems*, 9(3) 1189-1201, 2022,
o DOI: 10.1109/TCNS.2022.3163665
- [J10] V. Breschi, C. Ravazzi, S. Strada, F. Dabbene, M. Tanelli, "Fostering the Mass Adoption of Electric Vehicles: a Network-based Approach" *IEEE Transactions on Control of Network Systems*, vol. 9, no. 4, pp. 1666-1678, Dec. 2022, doi: 10.1109/TCNS.2022.3164969.
- [J11] M. Mammarella, L. Comba, A. Biglia, F. Dabbene, P. Gay, "Cooperation of unmanned systems for agricultural applications: A theoretical framework" *Biosystems Engineering*, 2022
o DOI: 10.1016/j.biosystemseng.2021.11.008.
- [J12] M. Mammarella, L. Comba, A. Biglia, F. Dabbene, P. Gay, "Cooperation of unmanned systems for agricultural applications: A case study in a vineyard" *Biosystems Engineering*, 2022
o DOI: 10.1016/j.biosystemseng.2021.12.010
- [J13] T. Shimizu, S. Yamashita, T. Hatanaka, K. Uto, M. Mammarella, F. Dabbene "Angle-Aware Coverage Control for 3-D Map Reconstruction with Drone Networks" *IEEE Control Systems Letters*, 6, 1831-1836, 2022
o DOI: 10.1109/LCSYS.2021.3135466
- [J14] P.S. Shcherbakov, F. Dabbene "A Probabilistic Point of View on Peak Effects in Linear Difference Equations" *European Journal of Control* 63(1), 107-115, 2022
o DOI: 10.1016/j.ejcon.2021.09.007
- [J15] M. Mammarella, V. Mirasierra, M. Lorenzen, T. Alamo, F. Dabbene "Chance constrained sets approximation: A probabilistic scaling approach" *Automatica* 137(3), 110108, 2022
o DOI: 10.1016/j.automatica.2021.110108
- [J16] C. Ravazzi, F. Dabbene, C. Lagoa, A.V. Proskurnikov "Learning Hidden Influences in Large-Scale Dynamical Social Networks: A Data-Driven Sparsity-Based Approach, in Memory of Roberto Tempo" *IEEE Control Systems Magazine* 41 (5), 61-103 2021
o DOI: 10.1109/MCS.2021.3092810
- [J17] V. Mirasierra, M. Mammarella, F. Dabbene, T. Alamo "Prediction error quantification through probabilistic scaling" *IEEE Control Systems Letters* 6, 1118-1123 2021
o DOI: 10.1109/LCSYS.2021.3087361

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