

Ioannis (John) Lygeros

ETH Zurich
Automatic Control Laboratory
ETL I 22, Physikstrasse 3
CH-8092 Zurich, Switzerland
Tel.: +41 44 632 89 70
Email: jlygeros@ethz.ch
www.control.ee.ethz.ch

Education

University of California, Berkeley
DOCTOR OF PHILOSOPHY
Electrical Engineering and Computer Sciences
May 18, 1996

Imperial College of Science, Technology and Medicine, London, U.K.
MASTERS OF SCIENCE
Control Systems
December 18, 1991

Imperial College of Science, Technology and Medicine, London, U.K.
BACHELORS OF ENGINEERING
Electrical and Electronic Engineering
August 1, 1990

Appointments

January 2010 - present: ETH Zurich, Switzerland
Professor of Computation and Control

January 2009 - present: ETH Zurich, Switzerland
Head, Automatic Control Laboratory

August 2020 - present: ETH Zurich, Switzerland
Director, NCCR Automation

July 2015 - February 2018: ETH Zurich, Switzerland
Head, Department of Information Technology and Electrical Engineering

July 2006 - December 2009: ETH Zurich, Switzerland
Associate Professor, Automatic Control Laboratory

March 2003 - July 2006: University of Patras, Greece
Assistant Professor, Department of Electrical and Computer Engineering

July 2000 - June 2003: University of Cambridge, U.K.

University Lecturer, Department of Engineering

October 2000 - June 2003: Churchill College, Cambridge, U.K.
Title A Fellow

January 2000 - June 2000: Military service, Hellenic Navy, Greece

October 1997 - December 1999: University of California, Berkeley, CA, U.S.A.
Postdoctoral Research Associate, Electrical Engineering and Computer Sciences

June 1998 - December 1999: SRI International, Menlo Park, CA, U.S.A.
Research Engineer (part time), Applied Physical Sciences Laboratory

May 1999 - June 1999: Universite de Bretagne Occidentale, Brest, France
Visiting Professor, Mathematics Department

November 1996 - October 1997: Massachusetts Institute of Technology, MA, U.S.A.
Postdoctoral Research Associate, Laboratory for Computer Science

June 1996 - October 1996: University of California, Berkeley, CA, U.S.A.
Visiting Postdoctoral Researcher, National Automated Highway System Consortium

January 1993 - May 1996: University of California, Berkeley, CA, U.S.A.
Graduate Student Researcher, Electrical Engineering and Computer Sciences

August 1992 - December 1992: University of California, Berkeley, CA, U.S.A.
Graduate Student Instructor, Electrical Engineering and Computer Sciences

June 1989 - August 1989: National Power, U.K.
Intern, Central Electricity Research Laboratories

June 1988 - July 1988: Hellenic Aspropyrgos Refinery, Greece
Intern

Honors and Awards

2024: HSCC Test of Time Award (with S. Amin, A. Abate, M. Prandini, and S. Sastry)

2023: Outstanding Service Award, International Federation of Automatic Control

2023: Advisor, International Federation of Automatic Control “for outstanding contributions in managing the finances of IFAC”

2022: IEEE Control Systems Society Swiss Chapter Young Author Best Journal Paper Award (J. Coulson, as advisor with F. Dörfler)

2022: Key Innovation in Teaching at ETH (KITE) Award Finalist (with P. Beuchat and J. Coulson)

2022: Plenary lecture, Mediterranean Control Congerence (MED)

2021: Plenary lecture, Indian Control Conference (ICC)

2020: Plenary lecture, Learning for Dynamics and Control Conference (L4DC)

2019: Young Author Prize, IFAC Symposium on Advances in Control Education (ACE) (P. Beuchat, as advisor)

2019: Best Student Paper Award, European Control Conference (J. Coulson, as advisor with F. Dörfler)

2019: Plenary lecture, European Control Conference (ECC)

2019: Miegunyah Distinguished Visiting Fellowship, University of Melbourne

2018: Keynote lecture, UKACC Conference on Control 2018

2018: American Automatic Control Council O. Hugo Schuck Best Paper Award (with M. Schmitt, C. Ramesh and P. Goulart)

2018: European Research Council Advanced Grant

2016: IEEE Control Systems Society George S. Axelby Outstanding Paper Award (with P. Mohajerin Esfahani and T. Sutter)

2016: Credit Suisse Award for Best Teaching, ETH Zurich

2015: Plenary lecture, Cyber-physical Systems Week 2015 (CPS Week)

2014: Golden Owl teaching award, ETH Zurich.

2013: Plenary lecture, Computational Methods in Systems Biology Conference (CMSB)

2013: Plenary lectures, BeNeLux Meeting on Systems and Control.

2012: Golden Owl teaching award, ETH Zurich.

2012: Semi-plenary lecture, IEEE Conference on Decision and Control (CDC).

2011: Fellow of the IEEE “for contributions to hybrid and stochastic systems and applications”.

2011: Plenary lecture, Computational Management Science Conference (CMS)

2009: Golden Owl teaching award, ETH Zurich.

2008: Semi-plenary lecture, Chinese Control and Decision Conference (CCDC).

2004: Senior Member of the IEEE.

1997: Eliahu Jury Ph.D. Thesis Award, University of California, Berkeley

1991: California Microelectronics Fellowship, University of California, Berkeley

1991: M.Sc. Distinction, Imperial College of Science, Technology and Medicine

1990: Science and Engineering Research Council Studentship, London, U.K.

1990: B.Eng. First Class Honours, Imperial College of Science, Technology and Medicine.

1990: Governors Prize in Electrical Engineering, City and Guilds College, London, U.K.

Doctoral Theses Supervised to Completion

Andrea Martin, 2024, “Optimal Control under Uncertainty: From Regret Minimization to Distributional Robustness” (EPFL, co-advised with G. Ferrari-Trecate and F. Dörfler)

Xavier Guidetti, 2024, “Intelligent additive manufacturing: a holistic approach to the optimisation of data-poor complex processes” (INSPIRE AG, co-advised with E. Balta and A. Rupenyan)

Andrea Martinelli, 2024, “Control of Large-Scale Discrete-Time Systems Dissipativity, Optimality, and Learning”. Thesis awarded the ETH Medal.

Samuel Balula, 2023, “Optimization-based trajectory planning for precision motion systems and autonomous robotic inspection” (INSPIRE AG, co-advised with A. Rupenyan)

Alexandros Tzanakakis, 2023, “Data-Driven Reinforcement Learning Control: Towards a Fully Automated, Personalized Artificial Pancreas”

Angeliki Kamoutsis, 2023, “A Lagrangian duality framework for provably efficient learning from demonstration”

Ahmed Aboudonia, 2023, “Adaptive Learning-based Model Predictive Control of Uncertain Interconnected Systems”.

Jeremy Coulson, 2022, “Data-enabled Predictive Control: Theory and practice” (co-advised with F. Dörfler). Thesis awarded the ETH Medal.

Felix Bünning, 2021, “Marrying Machine Learning and Model Predictive Control for efficient Building Energy Management” (Empa, Dübendorf, Switzerland, co-advised with P. Heer). Thesis awarded the ETH Medal.

Benjamin Flamm, 2020, “Economic Model Predictive Control of Energy Storage”

Michaela Bauer, 2019, “System Design and Power Flow of Stationary Energy Storage Systems” (BMW Group, Munich, Germany)

Paul Beuchat, 2019, “Approximate Dynamic Programming: theoretical guarantees and practical algorithms for a continuous space setting”

Felix Rey, 2018, “ADMM in Optimization and Control: Algorithm Specialization, Computational Distribution, and the Value of Structure”

Dario Paccagnan, 2018, “Distributed control and game design: From strategic agents to programmable machines”. Thesis awarded the ETH Medal.

Fabian Müller, 2018, “Characterisation and use of flexible energy units” (IBM Zurich Research Laboratory, Switzerland)

Marc Hohmann, 2018, “Polynomial Optimisation in Energy Systems” (Empa, Dübendorf, Switzerland, co-advised with P. Heer)

Georgios Darivianakis, 2018, “Data-driven decentralized decision making under uncertainty in energy systems”

Marius Schmitt, 2018, “Optimal control of traffic networks based on the theory of monotone systems”

Alexander Liniger, 2018, “Path Planning and Control for Autonomous Racing”

Damian Frick, 2018, “Numerical Methods for Decision-Making in Control from Hybrid Systems to Formal Specifications” (co-advised with M. Morari)

Basilio Gentile, 2018, “Equilibria in aggregative games”.

Tobias Sutter, 2017, “Convex programming in optimal control and information theory”. Thesis awarded the ETH Medal.

Xiaojing (George) Zhang, 2016, “Robust and Stochastic Control of Uncertain Systems: From Scenario Optimization to Adjustable Uncertainty Sets”.

Francesca Parise, 2016, “Inference and control for populations of systems: from aggregative games to systems biology”. Thesis awarded the ETH Medal.

Andreas B. Hempel, 2016, “Control of Piecewise Affine Systems Through Inverse Optimisation”.

Tobias Baltensperger, 2015, “Market Power in Natural Gas Markets” (Department of Environmental Systems Science, ETH Zurich).

Nikolaos Kariotoglou, 2015, “Optimization-based approximations to stochastic reachability problems”.

Jacob Ruess, 2014, “Moment-based methods for the analysis and identification of stochastic models of biochemical reaction Networks”. Thesis awarded the ETH Medal.

Stephan M. Huck, 2014, “Markov Chain Monte Carlo Methods for Monitoring Applications”.

Peyman Mohajerin-Esfahani, 2014, “Stochastic Motion Planning for Diffusions and Fault Detection and Isolation for Large Scale Nonlinear Systems”.

Tomas Tuma, 2013, “The four pillars of nanopositioning for scanning probe microscopy” (IBM Zurich Research Laboratory, co-advised with A. Pantazi and A. Sebastian).

Sean J. Summers, 2013, “Verification and synthesis of optimal decision strategies for complex systems”.

Andreas Miliadis-Argeitis, 2013, “Computational methods for simulation, identification and model selection in systems biology”.

Konstantinos Margellos, 2012, “Constrained Optimal Control for Complex Systems - Analysis and Applications”. Thesis awarded the ETH Medal.

Georgios Chaloulos, 2011, “Optimization-Based Control for Conflict Resolution in Air Traffic Management”.

Konstantinos Koutroumpas, 2010, “Stochastic Hybrid Systems for DNA replication modeling”.

Ioannis Lympieropoulos, 2010, “Sequential Monte Carlo methods in air traffic management”.

Current Doctoral Students

Varsha Behrunani (Empa, Dübendorf, Switzerland, co-advised with P. Heer)

Liam Cregg

Marta Fochesato

Matilde Gargiani

Panagiotis Grontas

Rawan Hoteit (co-advised with E. Balta and A. Rupenyan)

Aren Karapetyan

Milos Katanic (co-advised with G. Hug)

Cara Koepele (co-advised with P. Heer)

Francesco Micheli

Mahdi Nobar (FHNW, co-advised with J. Keller and A. Rupenyan)

Alessio Rimoldi

Niklas Schmid

Ben Spoek (co-advised with E. Balta)

Riccardo Zuliani (co-advised with E. Balta and A. Rupenyan)

Former Postdoctoral Research Associates (ETH Zurich, unless otherwise stated)

Daniele Alpago (INSPIRE AG)

Frederik Banis (Automatic Control Laboratory and NCCR Automation)

Goran Banjac

Manuela L. Bujorianu (while at University of Cambridge)

Alberto Busetto

Eugenio Cinquemani

Debashish Chatterjee

Ashish Cherukuri

Eva Cruck

Badis Djeridane

Alexander Domahidi (Group Leader, INSPIRE AG)

Annika Eichler (ETH Zurich Senior Scientist, co-advised with R.S. Smith)

Lucia Falconi

Gao Yan (while at University of Cambridge)
Angelos Georghiou
Sergio Grammatico
Peter Hokayem (ETH Zurich Senior Scientist)
Ashish Hota
Mathias Hudoba de Badyn (co-advised with R.S. Smith)
Maryam Kamgarpour
Nikolaos Kariotoglou
Ioannis Kitsios (while at University of Patras)
Andrea Lecchini-Visintini (while at University of Cambridge)
Sarah H.Q. Li (co-advised with F. Dörfler)
Dominic Liao-McPherson
Mohammad H. Mamduhi (ETH Zurich Senior Scientist and NCCR Automation)
Alberto Padoan (ETH Zurich Senior Scientist and NCCR Automation, co-advised F. Dörfler)
Riccardo Porreca
Chithrupa Ramesh
Federico Ramponi
Alisa Rupenuyan (ETH Zurich Senior Scientist and Group Leader, INSPIRE AG)
Soroosh Safieezadeh Abadeh (co-advised with F. Dörfler and D. Kuhn)
Tyler Summers (ETH Postdoctoral Fellow)
Maria Vrakopoulou (Marie Currie Fellow)
Joseph Warrington (ETH Zurich Senior Scientist)
Jiaqi Yan (co-advised with A. Rupenyan)
Chenggui Yuan (while at University of Cambridge)
Jianzhe (Trevor) Zhen
Suli Zou

Current Postdoctoral Research Associates

Ahmed Aboudonia
Efe Balta (Group Leader, INSPIRE AG)

Carlo Cenedese (ETH Zurich Senior Scientist)

Kimia Chavoshi

Raffaele Soloperto

Anastasios Tsiamis (ETH Zurich Senior Scientist)

Kevin Wallington

Active Research Grants

Principal Investigator, *Robotic 3D Printing Toolkit*, Innosuisse and Swiss National Science Foundation, BRIDGE Discovery, 226437, starting date January 1, 2025.

Principal Investigator, *Innovative Modelling and Assessment Capabilities through Manufacturing as a Service for Manufacturing Ecosystem Resilience (DMaaST)*, European Commission, Information Communication Technologies (ICT), Horizon Europe Framework Programme, Research and Innovation Action, HORIZON 101138648, starting date May 1, 2024.

Director and Principal Investigator, National Center of Competence in Research on *Dependable Ubiquitous Automation* (NCCR Automation), Swiss National Science Foundation, 51NF40 225155, starting date August 1, 2020.

Completed Research Grants

Principal Investigator, *Optimal Control at Large (OCAL)*, European Research Council, Advanced Grant 787845, starting date November 1, 2018 to October 31, 2024.

Principal Investigator, *Renewable Management and Real Time Control Platform (ReMaP)*, Bundesamt für Energie, October 1, 2018 to June 30, 2022.

Principal Investigator, *SCCER Future Energy Efficient Buildings & Districts (FEEB&D)*, Swiss Competence Centre for Energy Research, June 1, 2014 to December 31, 2020.

Principal Investigator, *Embedded optimisation methods in control*, ABB, May 1, 2017 to May 1, 2020

Principal Investigator, *Autonomous Camera Crew*, Innosuisse, 27472.1 PFIW-IW, January 1, 2018 to December 31, 2018

Principal Investigator, *Model-driven experimental design towards a model of TOR signaling (SignalX)*, SystemsX, 2013/156, April 1, 2014 to December 31, 2018.

Principal Investigator, *Stochastic Optimal Planning for Renewable Energy Sources Integration in Power Systems (SOPRIS)*, European Commission, People Marie Curie Actions, FP7, International Outgoing Fellowships for Career Development, FP7-People-626014, May 15, 2015 to May 14, 2018.

Principal Investigator, *Autonomous cameraman for event production*, Innosuisse, 19181.1 PFIW-IW, January 1, 2017 to March 31, 2018.

Coordinator and Principal Investigator, *Demand Response for Ancillary Services: Thermal Storage Control (HeatReserves)*, Nano-Tera.ch, 20NA21_145915, April 1, 2013 to October 30, 2017.

Principal Investigator, *Integration of Sustainable Mutli-Energy Hub Systems (IMES)*, Swiss National Science Foundation, NFP 407040_154028, September 1, 2014 to August 31, 2017

Principal Investigator, *Scalable Proactive Event Driven Decision Making (SPEEDD)*, European Commission, Information Communication Technologies (ICT), FP7, Specific Targeted Research Project (STREP), FP7-ICT-619435, February 1, 2014 to January 31, 2017.

Principal Investigator, *System of Systems that Act Locally for Optimizing Globally (Local4Global)*, European Commission, Information Communication Technologies (ICT), FP7, Specific Targeted Research Project (STREP), FP7-ICT-611538, October 1, 2013 to January 31, 2017.

Principal Investigator, *Behavioural and technical optimisation for building energy efficiency and flexibility*, ETH Zurich Foundation Seed Project number 2015-07(6), January 1 to December 31, 2016.

Principal Investigator, *Dynamic Management of Physically Coupled Systems of Systems (DYMASOS)*, European Commission, Information Communication Technologies (ICT), FP7, Specific Targeted Research Project (STREP), FP7-ICT-611281, October 1, 2013 to September 30, 2016..

Principal Investigator, *Approximate Dynamic Programming for Stochastic Hybrid Systems: Linear Programming and Multi-Objective Optimization*, ETH Zurich, grant number ETH 15 12-2, February 1, 2013 to January 31, 2016.

Coordinator and Principal Investigator, *Development of New Ph.D. Courses and Increase of Research Potential in the Field of Automation of Processes in Air Transport and Traffic Systems*, Swiss National Science Foundation, Institutional Partnerships (SCOPES), IZ74Z0-137352, October 1, 2011 to March 31, 2015.

Principal Investigator, *Feedback control of camera networks for tracking and surveillance*, Swiss National Science Foundation, grant number 200021-137876, January 1, 2012 to December 31, 2014.

Principal Investigator, *KIOS Research Center for Intelligent Systems and Networks*, Research Promotion Foundation of Cyprus, September 1, 2010 to December 31, 2014.

Principal Investigator, *Highly-complex and networked control systems (HYCON2)*, European Commission, Information Communication Technologies (ICT), FP7, Network of Excellence (NoE), FP7-ICT-257462, September 1, 2010 to November 30, 2014.

Principal Investigator, *Hierarchical Control for Renewable Wind Energy Generation*, Staatssekretariat für Bildung und Forschung (SBF), April 1, 2011 to March 31, 2014.

Coordinator and Principal Investigator, *Modeling, verification and control of complex systems: From foundations to power network applications (MoVeS)*, European Commission, Information Communication Technologies (ICT), FP7, Specific Targeted Research Project (STREP), FP7-ICT-257005, October 1, 2010 to September 30, 2013.

Principal Investigator, *Towards an understanding of nutrient signaling and metabolic operation (YeastX)*, SystemsX, August 1, 2008 to July 31, 2013.

Principal Investigator, *Intelligent Monitoring, Control, and Security of Critical Infrastructure systems (IntelliCIS)*, European Science Foundation COST Action, grant number IC-0806, May 11, 2009 to May 10, 2013.

Principal Investigator, *Real time computation and optimization for networked camera surveillance*, Nano-Tera/SSSTC Pilot Grant, October 1, 2011 to September 30, 2012.

Principal Investigator, *Stochastic MPC*, ETH Zurich, grant number ETH 12 09-2, August 1, 2009 to July 31, 2012.

Principal Investigator, *Stochastic Model Predictive Control*, Swiss National Science Foundation, grant number 200021-122072, December 1, 2008 to January 31, 2012.

Principal Investigator, *Feedback design for wireless networked systems (FeedNetBack)*, European Commission, Information Communication Technologies (ICT), FP7, Specific Targeted Research Project (STREP), FP7-ICT-223866, September 15, 2008 to January 15, 2012.

Principal Investigator, *Vital Infrastructure, Networks, Information and Control Systems Management (VIKING)*, European Commission, Information Communication Technologies (ICT) and Security (SEC), FP7, Specific Targeted Research Project (STREP), FP7-ICT-SEC-225643, November 1, 2008 to November 30, 2011.

Principal Investigator, *Analysis and Control of Hybrid Systems*, Sino-Swiss Science and Technology Cooperation Program (SSSCT), Travel Grant EG 50-032010, September 1 to October 31, 2011.

Principal Investigator, *Safety, Complexity and Responsibility based design and validation of highly automated Air Traffic Management (iFly)*, European Commission, Energy and Transport (TREN), FP6, Specific Targeted Research Project (STREP), FP6-TREN-03710, May 22, 2007 to August 22, 2011.

Principal Investigator, *Contract-based Air Transportation System (CATS)*, European Commission, Energy and Transport (TREN), FP7, Specific Targeted Research Project (STREP), FP7-TREN-036889, November 1, 2007 to November 30, 2010.

Principal Investigator, *En-route air traffic soft management ultimate system (ERASMUS)*, European Commission, Energy and Transport (TREN), FP6, Specific Targeted Research Project (STREP), FP6-TREN-518276, May 5, 2006 to February 23, 2009.

Coordinator and Principal Investigator, *Hybrid systems for biochemical network modeling and analysis (HYGEIA)*, European Commission, New and Emerging Science and Technology (NEST), FP6, Specific Targeted Research Project (STREP), FP6-NEST-4995, January 1, 2005 to December 31, 2007.

Principal Investigator, *Taming heterogeneity and complexity of networked embedded systems, (HYCON)*, European Commission, Information Society Technologies (IST), FP6, Network of Excellence, FP6-IST-511368, September 15, 2004 to September 14, 2008.

Principal Investigator, *Reconfigurable, ubiquitous networked embedded systems, (RUNES)*, European Commission, Information Society Technologies (IST), FP6, Integrated Project, FP6-

IST-004536, September 1, 2004 to July 31, 2007.

Principal Investigator, *Towards a next generation ATM system: Model based conflict detection and resolution*, Eurocontrol Experimental Centre, grant C20051E/BM/03, July 1, 2003 to June 30, 2006.

Coordinator and Principal Investigator, *Controller design for safety critical embedded systems, (COLUMBUS)*, European Commission, Information Society Technologies (IST), FP5, research contract, FP5-IST-2001-38314, July 1, 2002 to June 30, 2004.

Principal Investigator, *Stochastic hybrid systems in air traffic management*, The British Council and the Netherlands Organization for Scientific Research. U.K.-Netherlands Partnership Program in Science, grant PPS718, April 11, 2002.

Principal Investigator, *Probabilistic collision avoidance for air traffic control*, Engineering and Physical Sciences Research Council, U.K. Visiting Fellowship GR/R62663/01, March 27, 2002.

Principal Investigator, *Simulation and design of hybrid control systems*, Engineering and Physical Sciences Research Council, U.K. CASE Studentship, October 1, 2001 to September 30, 2004.

Principal Investigator, *Distributed control and stochastic analysis of hybrid systems, supporting safety critical real-time systems design (HYBRIDGE)*, European Commission, Information Society Technologies (IST), FP5, research contract, FP5-IST-2001-32460, January 1, 2002 to March 31, 2005.

Principal Investigator, *Toward a viability theory for hybrid systems*, Engineering and Physical Sciences Research Council, U.K., research grant GR/R51575/01, March 1, 2002 to June 30, 2003.

Professional Activities and Service

Fellow of the IEEE. Member of the IET and the Technical Chamber of Greece.

Vice-President Finances and Member of Council, International Federation of Automatic Control (IFAC), 2013 to 2023.

Board Member of the IFAC Foundation, 2013 to 2023

Member of the Editorial Committee, Annual Review of Control, Robotics, and Autonomous Systems, January 2024 to date

Member of the Steering Committee of the *Learning for Dynamics and Control* conference, 2021 to date.

Member of the Advisory Editorial Board of the *IEEE Open Journal of Control Systems*, 2021 to date.

Member of the Steering Committee of the *International Conference on Hybrid Systems: Computation and Control*, 2015 to 2019.

Member of the IEEE Control Systems Society Board of Governors, 2012 to 2015.

IEEE Control Systems Society Fellow Nomination Chair, 2014 and 2015.

Member of the Scientific Steering Committee of the Newton Institute, Cambridge U.K., 2012 to 2015.

Member of the ETH Zurich Research Commission, 2012 to 2014.

Associate editor of the *IEEE Transactions on Automatic Control*, 2006 to 2009.

Guest Editor (with M. Fränzle, A. Girard, and S. Sankaranarayanan) for *Nonlinear Analysis: Hybrid Systems*, special issue on “Hybrid Systems: Computation and Control”, 2017. Guest editor (with M. Prandini) for the *European Journal of Control*, special issue on “Stochastic Hybrid Systems”, December 2010. Guest editor (with A. Lecchini Visintini) for the *International Journal of Adaptive Control and Signal Processing*, special issue on “Air Traffic Management: Challenges and opportunities for advanced control”, October 2010.

Member of Organising Committee and Program Committee, 3rd Annual Learning for Dynamics and Control Conference (L4DC 2021)

Program Co-Chair (with M. Fränzle), *International Conference on Hybrid Systems: Computation and Control 2014* (HSCC 2014).

International Program Committee Chair, *European Control Conference 2013* (ECC13).

Technical Program Committee Co-Chair (with B. Sinopoli), *IFAC Workshop on Estimation and Control of Networked Systems 2010* (NecSys2010).

Member of the IEEE Control Systems Society Conference Editorial Board, 1997 to 1999.

Workshops Chair, *European Control Conference 2018* (ECC18). Chair of the “Test of Time Award” committee, *International Conference on Hybrid Systems: Computation and Control 2018*. Member of the Program Committee of the 5th *International Conference on Hybrid Systems* (HS97), the International Workshop *Hybrid Systems: Computation and Control* (HSCC), 1999-2005, 2008, 2010, and 2015 the *American Control Conference* (ACC) 2005 and 2007, the *International Conference on Research in Air Transportation* (ICRAT) 2004-2010, the IEEE international conference on *Research Innovation and Vision for the Future* (RIVF) 2006 and 2007, the *Conference on Computer Aided Verification* (CAV) 2007, the *Control over Communication Channels* workshop (ConCom) 2007, the *International Conference on Robot Communication and Coordination* (RoboComm) 2007, the *US/EUROPE Air Traffic Management Research and Development Seminar* (ATM R&D) 2009, EUROCONTROL’s *Innovation Workshop* (INO) 2010, and the *IEEE Mediterranean Conference on Control and Automation* (MED) 2011. Member of the International Program Committee of the 2nd IFAC conference on the *Analysis and Design of Hybrid Systems* (ADHS) 2006, the IFAC *Symposium on Automatic Control in Aerospace* (SACA) 2007, and the *International Symposium on Mathematical Theory of Networks and Systems* (MTNS) 2010.

Co-organizer (with G.J. Pappas and S.S. Sastry) of the workshop “Hybrid Systems: Modeling, analysis, control”, IEEE Conference on Decision and Control, December 6, 1999, Phoenix, Arizona, U.S.A.. Organizer of the workshop “Stochastic hybrid systems: Theory and application to air traffic management”, University of Cambridge, September 5, 2003, Cambridge, U.K.. Co-organizer (with K. Kyriakopoulos and M.D. di Benedetto) of the workshop “Hybrid systems: A formal paradigm for safety critical embedded systems”, University of Patras, September 22-24,

2004, Rio, Patras, Greece. Co-organizer (with A. van der Schaft) of the workshop “Stochastic hybrid systems: Theory and applications” IEEE Conference on Decision and Control, December 13, 2004, Paradise Island, The Bahamas. Co-organizer (with G. Ferrari-Trecate) of the workshop “Hybrid Systems Biology”, IEEE Conference on Decision and Control, December 12, 2006, San Diego, CA, U.S.A. and of the Ph.D. School by the same name, July 20, 2007, Siena, Italy. Co-organizer (with A. Abate and S. Sastry) of the workshop “Stochastic Hybrid Systems: Theory and Applications”, IEEE Conference on Decision and Control, December 8, 2008, Cancun, Mexico. Co-organizer (with M. Khammash and J. Stelling) of the workshop “Stochastic Systems Biology”, Centro Stefano Franscini, Mote Verita, Switzerland, July 19-23, 2011. Co-organizer (with I. Hiskens and M. Vrakopoulou) of the workshop “Scenario-based optimization for stochastic optimal power flow problems”, IEEE Conference on Decision and Control, December 10, 2017, Melbourne, Australia.

Reviewer for (among others) Molecular Systems Biology, SIAM Journal of Control and Optimization, International Journal of Control, Automatica, Systems Control Letters, IEEE Transactions on Automatic Control, IEEE Transactions on Robotics, Proceedings of the IEEE, IEEE Transactions on Control Systems Technology, IEEE Transaction on Vehicular Technology, IEEE Transactions on Fuzzy Systems, Journal of Control Theory and Advanced Technology, Society of Automotive Engineering Journal, Transportation Research C, IEEE Transactions on Aerospace and Electronic Systems IEEE/ACM Transactions on Computational Biology and Bioinformatics, ACM Transactions on Software Engineering and Methodology, IEEE Conference on Decision and Control (CDC), ASME American Control Conference (ACC), EUCA European Control Conference (ECC) and the IFAC World Congress.

Reviewer for AMS Mathematical Reviews 2005 to 2009.

Member of the international evaluation panel *Heracitus II*, Secretariat General for Research and Technology (GGET), Greece, 2010. Member of the evaluation panel *Scientific Co-operation between Eastern Europe and Switzerland* (SCOPEs, Swiss National Science Foundation, Switzerland), 2009. Member of the *Engineering Responsive Mode Panel*, Engineering and Physical Sciences Research Council (EPSRC, U.K.), 2001.

Evaluator of proposals for (among others) the Engineering and Physical Sciences Research Council (EPSRC), the Netherlands Organization for Scientific Research (NWO), the Australian Research Council (ARC), the Greek Secretariat General for Research and Technology (GGET), the Swiss National Science Foundation (SNF), the Sino-Swiss Science and Technology Cooperation (SSSTC) Program and the European Research Council (ERC).

Language Skills

Mother Language: Greek

Second Language: English

Other Languages: German, French

List of Publications

John Lygeros

1 Thesis

- 1.1. J. Lygeros, *Hierarchical Hybrid Control of Large Scale Systems*. Ph.D. thesis, Department of Electrical Engineering, University of California, Berkeley, 1996.
- 1.2. J. Lygeros, “Nonlinear feedback control of an absorption/stripping pilot plant,” Master’s thesis, Imperial College of Science Technology and Medicine, University of London, 1991.

2 Patents

- 2.1. T. Tuma, J. Lygeros, A. Pantazi, and A. Sebastian, “Evaluating and optimizing a trajectory function,” Patent Application Number GB1201593.9 2012.
- 2.2. T. Wood, M. Kamgarpour, S. Summers, and J. Lygeros, “Support to emergency evacuation,” Patent Application Number EP 13005725.0 2013.
- 2.3. P. Mohajerin Esfahani, M. Vrakopoulou, J. Lygeros, and G. Andersson, “Intrusion detection in electric power networks,” EP 2690511 (January 29, 2014), WO 2014/015970 (January 30, 2014).
- 2.4. G. Foulas and J. Lygeros, “Method for the detection of the deviation of civil aircraft from their flight plan,” OBI 1006243, January 23, 2009. International classification: G08G 5/00.

3 Magazine Articles and Editorials

- 3.1. E. Cahard, F. Dörfler, J. Lygeros, and L. Seward, “Institutes in control: NCCR Automation in Switzerland,” *IEEE Control Systems Magazine*, vol. 43, no. 5, pp. 186–190, 2023.
- 3.2. M. H. Mamduhi, E. C. Balta, A. Rupenyan, and J. Lygeros, “Information-operation technology integration in industrial cyberphysical systems,” *Computer*, vol. 55, no. 11, pp. 115–118, 2022.
- 3.3. A. Jadbabaie, J. Lygeros, G. Pappas, P. Parrilo, B. Recht, C. Tomlin, and M. Zeilinger, “The third annual conference on learning for dynamics and control,” in *Proceedings of Machine Learning Research, Learning for Dynamics and Control (L4DC)*, vol. 144, 2021.
- 3.4. M. M. Fränzle, A. Girard, J. Lygeros, and S. Sankaranarayanan, “Special issue on Hybrid Systems: Computation and Control,” *Nonlinear Analysis: Hybrid Systems*, vol. 23, February 2017.
- 3.5. M. Prandini and J. Lygeros, “Special Issue on Stochastic Hybrid Systems: A Powerful Framework for Complex, Large Scale Applications,” *European Journal of Control*, vol. 16, December 2010.
- 3.6. A. Lecchini Visintini and J. Lygeros, “Special Issue on Air Traffic Management: Challenges and Opportunities for Advanced Control,” *International Journal of Adaptive Control and Signal Processing*, vol. 24, October 2010.
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5 Book Chapters

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6 Peer Reviewed Conference Publications

- 6.1. A. Tsiamis, M. Abdalmoaty, R. Smith, and J. Lygeros, “Finite-sample frequency domain identification,” in *IEEE Conference on Decision and Control (CDC)*, Milano, Italy, December 16-19, 2024.
- 6.2. V. Behrunani, P. Heer, R. Smith, and J. Lygeros, “Recursive feasibility guarantees in multi-horizon MPC,” in *IEEE Conference on Decision and Control (CDC)*, Milano, Italy, December 16-19, 2024.
- 6.3. A. Karapetyan, E. Balta, A. Tsiamis, A. Iannelli, and J. Lygeros, “On the regret of recursive methods for discrete-time adaptive control with matched uncertainty,” in *IEEE Conference on Decision and Control (CDC)*, Milano, Italy, December 16-19, 2024.
- 6.4. M. Degner, R. Soloperto, M. Zeilinger, J. Lygeros, and J. Köhler, “Adaptive economic model predictive control for linear systems with performance guarantees,” in *IEEE Conference on Decision and Control (CDC)*, Milano, Italy, December 16-19, 2024.
- 6.5. A. Vlachos, A. Tsiamis, A. Karapetyan, E. Balta, and J. Lygeros, “Online residual learning from offline experts for pedestrian tracking,” in *IEEE Conference on Decision and Control (CDC)*, Milano, Italy, December 16-19, 2024.
- 6.6. H. Li, Y. Yu, Dörfler, and J. Lygeros, “A coupled optimization framework for correlated equilibria in normal-form games,” in *IEEE Conference on Decision and Control (CDC)*, Milano, Italy, December 16-19, 2024.
- 6.7. N. Schmid, M. Fochesato, T. Sutter, and J. Lygeros, “Joint chance constrained optimal control via linear programming,” in *IEEE Conference on Decision and Control (CDC)*, Milano, Italy, December 16-19, 2024.
- 6.8. B. Sprenger, G. De Pasquale, R. Soloperto, J. Lygeros, and F. Dörfler, “Control strategies for recommendation systems in social networks,” in *IEEE Conference on Decision and Control (CDC)*, Milano, Italy, December 16-19, 2024.
- 6.9. K. Zhang, R. Zuliani, E. Balta, and J. Lygeros, “Data-enabled predictive repetitive control,” in *IEEE Conference on Decision and Control (CDC)*, Milano, Italy, December 16-19, 2024.
- 6.10. J. Li, M. Zagorowska, G. De Pasquale, A. Rupenyan, and J. Lygeros, “Safe time-varying optimization based on gaussian processes with spatio-temporal kernel,” in *Conference on Neural Information Processing Systems (NeurIPS)*, Vancouver, Canada, December 9-15, 2024.
- 6.11. A. Kamoutsi, P. Schmitt-Förster, T. Sutter, V. Cevher, and J. Lygeros, “Randomized algorithms and PAC bounds for inverse reinforcement learning in continuous spaces,” in *Conference on Neural Information Processing Systems (NeurIPS)*, Vancouver, Canada, December 9-15, 2024.
- 6.12. S. Li, A. Vinod, and J. Lygeros, “Markov potential game with reach-avoid objectives,” in *IFAC Workshop on Cyber-Physical and Human Systems (CPHS)*, Antalya, Turkey, December 12-13, 2024.
- 6.13. F. Spinelli, N. Ospelt, C. He, E. Palma, S. Montorfani, R. Soloperto, and J. Lygeros, “A sampling-based algorithm for multi-agent coordination in robocup soccer,” in *Workshop on Humanoid Soccer Robots (WHSR)*, Nancy, France, November 22, 2024.
- 6.14. P. Grontas, M. Fochesato, C. Cenedese, G. Belgioiso, F. Dörfler, and J. Lygeros, “Optimal dynamic pricing in energy markets: A stackelberg game approach,” in *Symposium on Systems Theory in Data and Optimization (SysDO)*, Stuttgart, Germany, September 30 - October 2, 2024.
- 6.15. A. Karapetyan, E. Balta, A. Iannelli, and J. Lygeros, “Closed-loop finite-time analysis of suboptimal online control,” in *Symposium on Systems Theory in Data and Optimization (SysDO)*, Stuttgart, Germany, September 30 - October 2, 2024.
- 6.16. M. Cummins, A. Padoan, K. Moffat, F. Dörfler, and J. Lygeros, “DeePC-Hunt: Data-enabled predictive control hyperparameter tuning via differentiable optimization,” in *Symposium on Systems Theory in Data and Optimization (SysDO)*, Stuttgart, Germany, September 30 - October 2, 2024.

- 6.17. X. Guidetti, A. Mukne, M. Rueppel, Y. Nagel, E. Balta, and J. Lygeros, "Data-driven extrusion force control tuning for 3D printing," in *International Conference on Automation Science and Engineering (CASE)*, Bari, Italy, August 28-September 1, 2024.
- 6.18. J. Yan, A. Chakrabarty, A. Rupenyan, and J. Lygeros, "MPC of uncertain nonlinear systems with meta-learning for fast adaptation of neural predictive models," in *International Conference on Automation Science and Engineering (CASE)*, Bari, Italy, August 28-September 1, 2024.
- 6.19. A. Tsiamis, A. Karapetyan, Y. Li, E. Balta, and J. Lygeros, "Predictive linear online tracking for unknown targets," in *International Conference on Machine Learning (ICML)*, Vienna, Austria, July 21-27, 2024.
- 6.20. A. Tsiamis, M. Abdalmoaty, R. Smith, and J. Lygeros, "Finite sample identification: From frequency to time domain," in *ICML Workshop: Foundations of Reinforcement Learning and Control – Connections and Perspectives*, Vienna, Austria, July 26, 2024.
- 6.21. M. Cummins, A. Padoan, K. Moffat, J. Lygeros, and F. Dörfler, "DeePC-Hunt: Data-enabled predictive control hyperparameter tuning via differentiable optimization," in *ICML Workshop: Foundations of Reinforcement Learning and Control – Connections and Perspectives*, Vienna, Austria, July 26, 2024.
- 6.22. R. Zuliani, R. Soloperto, and J. Lygeros, "Convergence guarantees for adaptive model predictive control with kinky inference," in *Proceedings of Machine Learning Research, Learning for Dynamics and Control (L4DC)*, Oxford, U.K., July 15-17, 2024.
- 6.23. A. Karapetyan, D. Bolliger, A. Tsiamis, E. Balta, and J. Lygeros, "Online linear quadratic tracking with regret guarantees," in *American Control Conference (ACC)*, Toronto, Canada, July 8-12, 2024.
- 6.24. V. Behrunani, F. Bellizio, P. Heer, and J. Lygeros, "Design of distribution tariffs for energy hub networks to reduce carbon emissions," in *European Control Conference (ECC)*, Stockholm, Sweden, June 25-28, 2024.
- 6.25. M. Abdalmoaty, E. Balta, J. Lygeros, and R. Smith, "Online identification of stochastic continuous-time Wiener models using sampled data," in *European Control Conference (ECC)*, Stockholm, Sweden, June 25-28, 2024.
- 6.26. A. Rimoldi, C. Cenedese, A. Padoan, F. Dörfler, and J. Lygeros, "Urban traffic congestion control: a DeePC change," in *European Control Conference (ECC)*, Stockholm, Sweden, June 25-28, 2024.
- 6.27. A. Martin, L. Furieri, F. Dörfler, J. Lygeros, and G. Ferrari-Trecate, "Regret optimal control for uncertain stochastic systems," in *European Control Conference (ECC)*, Stockholm, Sweden, June 25-28, 2024.
- 6.28. K. Zhang, K. Zhang, L. Huang, G. Belgioioso, J. Lygeros, and F. Dörfler, "Data-enabled predictive control for dynamic traffic routing," in *Transportation Research Board (TRB) Annual Meeting*, Washington, D.C., U.S.A., January 7–11, 2024.
- 6.29. A. Padoan, F. Dörfler, and J. Lygeros, "Data-driven representations of convex and conical behaviors," in *IEEE Conference on Decision and Control (CDC)*, Singapore, December 13-15, 2023.
- 6.30. I. Aolaritei, M. Fochesato, J. Lygeros, and F. Dörfler, "Wassestein tube MPC with exact uncertainty propagation," in *IEEE Conference on Decision and Control (CDC)*, Singapore, December 13-15, 2023.
- 6.31. A. Karapetyan, E. Balta, A. Iannelli, and J. Lygeros, "On the finite-time behavior of suboptimal linear model predictive control," in *IEEE Conference on Decision and Control (CDC)*, Singapore, December 13-15, 2023.
- 6.32. P.D. Grontas, C. Cenedese, M. Fochesato, G. Belgioioso, J. Lygeros, and F. Dörfler, "Designing optimal personalized incentive for traffic routing using BIG Hype algorithm," in *IEEE Conference on Decision and Control (CDC)*, Singapore, December 13-15, 2023.
- 6.33. K. Zhang and J. Lygeros, "Routing and charging game in ride-hailing service with electric vehicles," in *IEEE Conference on Decision and Control (CDC)*, Singapore, December 13-15, 2023.
- 6.34. M. Katanic, J. Lygeros, and G. Hug, "Bad-data-resilient dynamic state estimation for power systems with partially known models," in *IEEE PES Innovative Smart Grid Technologies - Asia (ISGT Asia)*, Auckland, New Zealand, November 21-24, 2023.

- 6.35. V. Behrunani, F. Ricca, M. Zagorowska, M. Hudoba de Badyn, P. Heer, and J. Lygeros, "Degradation-aware data-enabled predictive control of energy hubs," in *CISBAT*, Lausanne, Switzerland, September 13-15, 2023.
- 6.36. V. Behrunani, P. Heer, and J. Lygeros, "Experimental validation of distributed control of energy hub networks," in *CISBAT*, Lausanne, Switzerland, September 13-15, 2023.
- 6.37. S. Balula, E. Balta, S. Liao-McPherson, A. Rupenyan, and J. Lygeros, "Sequential quadratic programming-based iterative learning control for nonlinear systems," in *IEEE Conference on Control Technology and Applications (CCTA)*, Bridgetown, Barbados, August 16-18, 2023.
- 6.38. E. Elokda, C. Cenedese, K. Zhang, A. Censi, J. Lygeros, E. Frazzoli, and F. Dörfler, "Carma: Fair and efficient bottleneck congestion management with non-tradable credits," in *Transportation Science and Logistics (TSL)*, Chicago, IL, U.S.A., July 23–26, 2023. (Extended Abstract.).
- 6.39. S. Balula, D. Liao-McPherson, S. Stevšić, A. Rupenyan, and J. Lygeros, "Drone-based volume estimation in indoor environments," in *IFAC World Congress*, Yokohama, Japan, July 10-14, 2023.
- 6.40. N. Schmid and J. Lygeros, "Probabilistic reachability and invariance computation of stochastic systems using linear programming," in *IFAC World Congress*, Yokohama, Japan, July 10-14, 2023.
- 6.41. Y. Li, A. Karapetyan, J. Lygeros, K. Johansson, and J. Martensson, "Performance bounds of model predictive control for unconstrained and constrained linear quadratic problems and beyond," in *IFAC World Congress*, Yokohama, Japan, July 10-14, 2023.
- 6.42. M. Fochesato, T. Laaksonlaita, P. Heer, and J. Lygeros, "Modeling and real-time control of a hydrogen refueling station with uncertain demand," in *IFAC World Congress*, Yokohama, Japan, July 10-14, 2023.
- 6.43. V. Behrunani, G. Belgioioso, A. Irvine, P. Heer, F. Dörfler, and J. Lygeros, "Designing fairness in autonomous peer-to-peer energy trading," in *IFAC World Congress*, Yokohama, Japan, July 10-14, 2023.
- 6.44. M. Gargiani, D. Liao-McPherson, A. Zanelli, and J. Lygeros, "Inexact GMRES policy iteration for large-scale Markov decision processes," in *IFAC World Congress*, Yokohama, Japan, July 10-14, 2023.
- 6.45. F. Micheli, V. Behrunani, J. Mehr, P. Heer, and J. Lygeros, "Stochastic MPC for energy hubs using data driven demand forecasting," in *IFAC World Congress*, Yokohama, Japan, July 10-14, 2023.
- 6.46. M. Zagorowska, E. Balta, V. Behrunani, A. Rupenyan, and J. Lygeros, "Efficient sample selection for safe learning," in *IFAC World Congress*, Yokohama, Japan, July 10-14, 2023.
- 6.47. C. Cenedese, M. Cucuzzella, A. Cotta Ramusino, D. Spalenza, J. Lygeros, and A. Ferrara, "Optimal service station design for traffic mitigation via genetic algorithm and neural network," in *IFAC World Congress*, Yokohama, Japan, July 10-14, 2023.
- 6.48. X. Guidetti, M. Kühne, Y. Nagel, E. Balta, A. Rupenyan, and J. Lygeros, "Data-driven process optimization of fused filament fabrication based on *in situ* measurements," in *IFAC World Congress*, Yokohama, Japan, July 10-14, 2023.
- 6.49. A. Martin, L. Furieri, F. Dörfler, J. Lygeros, and G. Ferrari-Trecate, "Follow the clairvoyant: An imitation learning approach to optimal control," in *IFAC World Congress*, Yokohama, Japan, July 10-14, 2023.
- 6.50. A. Karapetyan, A. Tsiamis, E. B. abd A. Iannelli, and J. Lygeros, "Implications of regret on stability of linear dynamical systems," in *IFAC World Congress*, Yokohama, Japan, July 10-14, 2023.
- 6.51. G. Belgioioso, D. Liao-McPherson, M. Hudoba de Badyn, N. Pelzmann, J. Lygeros, and F. Dörfler, "Stability and robustness of distributed suboptimal model predictive control," in *IFAC World Congress*, Yokohama, Japan, July 10-14, 2023.
- 6.52. C. Cenedese, M. Lucchini, M. Cucuzzella, A. Ferrara, and J. Lygeros, "On the effect of capacity drops in highways with service stations," in *Mediterranean Conference on Control Automation (Med)*, Limassol, Cyprus, June 26-29, 2023.

- 6.53. E. Elokda, C. Cenedese, K. Zhang, A. Censi, J. Lygeros, and E. Frazzoli, “Karma priority lanes for fair and efficient bottleneck congestion management,” in *Mediterranean Conference on Control Automation (Med)*, Limassol, Cyprus, June 26-29, 2023.
- 6.54. M. Fochesato, F. Fabiani, and J. Lygeros, “Generalized uncertain nash games: Reformulation and robust equilibrium seeking,” in *European Control Conference (ECC)*, Bucharest, Romania, June 13-16, 2023.
- 6.55. J. Coulson, H. van Waarde, J. Lygeros, and F. Dörfler, “A quantitative notion of persistency of excitation and the robust fundamental lemma,” in *American Control Conference (ACC)*, San Diego, CA, USA from May 31-June 2, 2023.
- 6.56. X. Guidetti, A. Rupenyan, L. Fassel, M. Nabavi, and J. Lygeros, “Advanced manufacturing configuration by sample-efficient batch Bayesian optimization,” in *International Conference on Robotics and Automation (ICRA)*, London, U.K., May 29-June 2, 2023.
- 6.57. E. Elokda, C. Cenedese, K. Zhang, J. Lygeros, and F. Dörfler, “CARMA: Fair and efficient bottleneck congestion management with karma,” in *Transportation Research Board (TRB) Annual Meeting*, Washington, D.C., U.S.A., January 8–12, 2023.
- 6.58. A. Karapetyan, A. Iannelli, and J. Lygeros, “On the regret of $\mathcal{H}_\infty$ control,” in *IEEE Conference on Decision and Control (CDC)*, Cancun, Mexico, December 6-9, 2022.
- 6.59. M. Fochesato and J. Lygeros, “Data-driven distributionally robust bounds for stochastic model predictive control,” in *IEEE Conference on Decision and Control (CDC)*, Cancun, Mexico, December 6-9, 2022.
- 6.60. M. Fochesato, C. Cenedese, and J. Lygeros, “A Stackelberg game for incentive-based demand response in energy markets,” in *IEEE Conference on Decision and Control (CDC)*, Cancun, Mexico, December 6-9, 2022.
- 6.61. B. Gravell, M. Gargiani, J. Lygeros, and T.H. Summers, “Policy iteration for multiplicative noise output feedback control,” in *IEEE Conference on Decision and Control (CDC)*, Cancun, Mexico, December 6-9, 2022.
- 6.62. C. Cenedese, M. Cucuzzella, A. Ferrara, and J. Lygeros, “A novel control-oriented cell transition model including service stations on highways,” in *IEEE Conference on Decision and Control (CDC)*, Cancun, Mexico, December 6-9, 2022.
- 6.63. E. Balta, A. Iannelli, R.S. Smith, and J. Lygeros, “Regret analysis of online gradient descent-based iterative learning control with model mismatch,” in *IEEE Conference on Decision and Control (CDC)*, Cancun, Mexico, December 6-9, 2022.
- 6.64. F. Micheli, T.H. Summers, and J. Lygeros, “Data-driven distributionally robust MPC for systems with uncertain dynamics,” in *IEEE Conference on Decision and Control (CDC)*, Cancun, Mexico, December 6-9, 2022.
- 6.65. A. Padoan, J. Coulson, H.J. van Waarde, J. Lygeros, and F. Dörfler, “Behavioral uncertainty quantification for data-driven control,” in *IEEE Conference on Decision and Control (CDC)*, Cancun, Mexico, December 6-9, 2022.
- 6.66. D. Liao-McPherson, E.C. Balta, A. Rupenyan, and J. Lygeros, “On robustness in optimization-based constrained iterative learning control,” in *IEEE Conference on Decision and Control (CDC)*, Cancun, Mexico, December 6-9, 2022.
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- 6.157. D. Drzajic, N. Kariotoglou, M. Kamgarpour, and J. Lygeros, "A semidefinite programming approach to control synthesis for stochastic reach-avoid problems," in *Applied Verification for Continuous and Hybrid Systems (ARCH)*, Vienna, Austria, April 11, 2016.
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