Curriculum Vitae

Dimos V. Dimarogonas, PhD

Office Address
School of Electrical Engineering
Automatic Control
KTH Royal Institute of Technology
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Date of Birth: June 17th, 1978, Athens, GREECE

Citizenship: Greek

EDUCATION

PhD in Mechanical Engineering: **National Technical University of Athens**
Athens, GREECE (3/2002-3/2007)
Dissertation Title: "*Development of Decentralized Hybrid Control Methodologies with Application to the Collision Avoidance Problem*"
Advisor: Prof. Kostas Kyriakopoulos

Eng. Diploma: **National Technical University of Athens** Athens, GREECE
Diploma in Electrical and Computer Engineering, Telecommunications Section
(9/1996-9/2001)
Dipl. Thesis Title: "*Max-Plus Control of Discrete-Event Dynamical Systems*"
Advisor: Prof. Petros Maragos
GPA: 8.15/10.0.

Docent in Automatic Control, **KTH Royal Institute Of Technology**, 2012.

RESEARCH INTERESTS

Multi-Agent Systems, Autonomous Robots, Networked Control, Air Traffic Control, Hybrid Systems and Control, Distributed Formal Methods.

PROFESSIONAL EXPERIENCE

Automatic Control Lab, School of Electrical Eng., KTH Royal Inst. Of Technology
Stockholm, SWEDEN
4/2014-
Associate Professor, (Swedish: Universitetslektor)

Automatic Control Lab, School of Electrical Eng., KTH Royal Inst. Of Technology
Stockholm, SWEDEN
10/2010- 3/2014
Assistant Professor, (Swedish: Bitr. Universitetslektor)

Greek Army (Στρατός Ξηράς), fulfillment of compulsory military service
Greece
5/2010-9/2010

Laboratory for Information and Decision Systems, Massachusetts Inst. Of Technology (MIT)
Cambridge, MA, USA
2/2009-3/2010:
Post Doctoral Research Associate
Research Supervisor: Professor Emilio Frazzoli.

Automatic Control Lab, School of Electrical Eng., KTH Royal Inst. Of Technology
Stockholm, SWEDEN
5/2007-2/2009:
KTH ACCESS Postdoc (selected among 100 candidates both in 2007 and 2008)
Research Supervisor: Professor Karl Henrik Johansson.

Control Sys. Lab., **Mech. Eng. Dept., National Tech. Univ. of Athens**
Athens, GREECE
3/2002-3/2007:
PhD Candidate
Advisor: Professor Kostas J. Kyriakopoulos.

ACTIVITIES

PROJECTS

Wallenberg Academy Fellow grant, Principal Investigator (PI), 2016-2021.

ERC Starting Grant BUCOPHSYS, H2020, “Bottom-up hybrid control and planning synthesis with application to multi-robot multi-human coordination”, Principal Investigator (PI), 2015-2020.

SSF Smart Systems COIN, “Co-adaptive human-robot interactive systems", Swedish Foundation for Strategic Research 2015 Smart Systems Call, Coordinator and Principal Investigator (PI), 2016-2021.

EU H2020 Project Co4Robots, “Achieving Complex Collaborative Missions via Decentralized Control and Coordination of Interacting Robots", H2020 Programme of the European Commission, Coordinator and Principal Investigator (PI), 2017-2020.

Knut and Alice Wallenberg Foundation Project IPSYS, “Interactive Physical Systems: Moduli Spaces, Inference and Control”,co-Principal Investigator (co-PI), 2015-2020.

EU H2020 Project AEROWORKS, “Collaborative Aerial Workers”, Principal Investigator (PI), 2015-2018.

Swedish Research Council (VR), “Robust hybrid controller synthesis for multi-agent systems from local task specifications”, Principal Investigator (PI), 2014-2018.

SRA ICT TNG Faculty project TouCHES, 1.5 MSEK, Principal Investigator (PI)), Coordinator: Prof. Carlo Fischione, SRA ICT TNG Program, 2016-2019.

EU STREP FP7 Project COMPANION, " COoperative dynamic forMation of Platoons for sAfe and eNergy-optImized gOods transportatioN", FP7 Programme of the European Commission, co-Principal Investigator (co-PI), 2013-2016.

KTH ACCESS High Risk High Payoff Project, Shaping up networked systems through controlling their statistical moments, with Xiaoming Hu, 2013-2015.

EU STREP FP7 Project RECONFIG, "Cognitive, Decentralized Coordination of Heterogeneous Multi-Robot Systems via Reconfigurable Task Planning", FP7 Programme of the European Commission, Coordinator and Principal Investigator (PI), 2013-2016.

Swedish Research Council (VR), via grant 2009-3948, “Decentralized control of multi-agent systems with limited communication capabilities”, Principal Investigator (PI), 2010-2014.

Swedish Research Council (VR), NSF-VR Nordic Research Opportunity Program, Principal Investigator (PI), 2012.

KTH funding for the project Situated Audio Visual Interaction with Robots (SAVIR), KTH Strategic Research Area, The Next Generation: Human Robot Interaction, Robotic Focus Project, co-PI, 2010-1011.

Member of the NASA sponsored project "IDEAS: Influence of Degraded Environment on Airspace Safety". NASA, 2008-2011.

Member of the project "TAIS AURES: Cooperative guard and search:flexible autonomous UGV systems". Swedish Governmental Agency for Innovation Systems, 2007-2009.

Project Leader of the ACCESS Linnaeus Center Project on Wireless Sensing and Actuation. Research on coding, control and estimation for wireless sensor and actuator networks, 2008.

Member of the EU STREP Project ISWARM, "Intelligent Small World Autonomous Robots for Micro-Manipulation", (IST-2004-507006). European Commission, FP6-2002-IST-1, (IST Future and Emerging Technologies, Integrated Project - IP) 2004-7.

Work Package Leader of the EU STREP Project HYBRIDGE, "Distributed Control and Stochastic Analysis of Hybrid Systems Supporting Safety Critical Real-Time Systems Design", IST-2001-32460, 2002-2005.

SUPERVISION

Current Postdocs

Dimitris Boskos, PhD from National Technical University of Athens, from August 2014.

Meng Guo, PhD from KTH, from March 2017.

Pierre-Jean Meyer, PhD from University of Grenoble, from November 2015.

Former Postdocs

Jana Tumova, PhD from Masaryk University, 2013-16. Currently Assistant Professor at KTH, Sweden.

Tao Yang, KTH, PhD from Washington State University, co-supervised with Prof. Karl Henrik Johansson, 2012-14. Currently Assistant Professor at Univ. North Texas, USA.

Ziyang Meng, KTH, PhD from Shanghai Jiaotong University, co-supervised with Prof. Karl Henrik Johansson, 2012-14. Currently Ass. Professor at Tsinghua Univ., China.

Yiannis Karayiannidis, KTH, PhD from AUTH, co-supervised with Prof. Danica Kragic, 2011. Currently Assistant Professor at Chalmers, Sweden.

Davide Liuzza, KTH, PhD from Univ. of Naples, co-supervised with Prof. Karl Henrik Johansson, 2013-2015.

Current PhD Students

Lars Lindemann, KTH EES, main supervisor, from 2016.

Sofie Andersson, KTH EES, main supervisor, from 2016.

Pian Yu, KTH EES, main supervisor, from 2016.

Philipp Schillinger, Bosch Industrial PhD student, KTH EES, main supervisor, from 2015.

Alexandros Nikou, KTH EES, main supervisor, from 2015.

Pedro Pereira, KTH EES, main supervisor, from 2014.

Christos Verginis, KTH EES, main supervisor, from 2015.

Antonio Adaldo, KTH EES, co-supervised with Prof. Karl H. Johansson, from 2014.

Sebastian van de Hoef, KTH EES, main supervisor, co-supervisor Prof. Karl Henrik Johansson, from 2013.

Yuencheng Yang, KTH Opt&Sys, co-supervised with Prof. Xiaoming Hu, from 2011.

Martin Andreasson, KTH EES, co-supervised with Prof. Henrik Sandberg and Prof. Karl H. Johansson, from 2011, Lic 2013.

Alejandro Marzinotto, KTH CSC CVAP, co-supervised with Prof. Danica Kragic, from 2013.

Michele Colledanchise, KTH CSC CVAP, co-supervised with Prof. Petter Ögren, from 2013.

Former PhD students

Meng Guo, KTH EES, main supervisor, co-supervisor Prof. Karl Henrik Johansson, Lic 2013, graduated 2016. Currently postdoc at Duke University.

Giannis Roussos, NTUA, co-supervised with Prof. Kostas J. Kyriakopoulos, 2008-2010, graduated 2015.

Alina Eqtami, NTUA, co-supervised with Prof. Kostas J. Kyriakopoulos, from 2008, graduated August 2013. Currently postdoc at Harvard University.

MS Thesis:

Paul Rousse, “Multi agent control with LTL specifications and abstraction with input memories”, KTH EES, 2016.

Ziwei Xu, “LTL motion planning with collision avoidance for a team of quadrotors”, KTH EES, 2016.

Sofie Andersson, “Automatic Control Design Synthesis under Metric Interval Temporal Logic Specifications”, KTH EES, 2016.

Lars Lindemann, “Robust Model Predictive Control of Linear Systems under Signal Temporal Logic Specifications”, KTH EES, 2016.

Manuel Herzog, “Design and Implementation and Analysis of a Controller for a Load Suspended from an Aerial Vehicle”, KTH EES, 2016, with University of Stuttgart.

Riccardo Zanella, Design, “Implementation and Test of Decoupled Controllers for Mobile Manipulation with Aerial Robots”, KTH EES, 2016, with University of Padova.

Viking Flyhammar, “A Method Based on Bayesian Networks for Estimation of Test Confidence”, KTH EES, 2015, supervised by Dr. Jana Tumova and Dr. Mattias Nyberg (Scania).

Anders Gidmark, “Using CSPs (Constraint Satisfaction Problems) to analyze functional safety of vehicles with high variability”, KTH EES, 2015, supervised by Dr. Jana Tumova and Dr. Mattias Nyberg (Scania).

Pete Watcharawit, “Applying Agent-Based Modeling to Studying Emergent Behaviors of the Immune System Cells”, KTH EES, 2015, supervised with Dr. Petter Brodin (Karolinska Institutet).

Ioannis Hatzis, “Motion Planning of Multi-Agent Systems under Temporal Logic Specifications”, KTH EES, 2015.

Luca Macellari, “Average Consensus with Prescribed Performance Guarantees for Multi-agent Double-Integrator Systems”, KTH EES, 2015.

Steffen Linsenmayer “Event-triggered control of multi-agent systems with double-integrator dynamics: Application to vehicle platooning and flocking algorithms”, KTH EES, 2014. With University of Stuttgart.

Ernest Company, “Formal Methods Based Hybrid Control Synthesis for Multi-Agent Systems”, KTH EES, 2014. With University of Valencia.

Liangrui Huang, “Relaxations in Communication Constrains and Task Specifications in a Multi-agent System under Independent and Dependent specifications”, KTH EES, 2014.

Naomi Anveden Hertzberg, “Coordinated Control of Multiple Autonomous Underwater Vehicles”, KTH EES, 2014.

Philipp Köhler, “Double-integrator leader-follower networks: Sufficient conditions for connectivity maintenance”, KTH EES, 2014. With University of Stuttgart.

Geoffray Battiston, “Collaborative Action Planning for Humanoid Robots Exchanging a Small Object”, KTH EES, 2014.

Olivier Balland , “Collaborative motion planning of humanoid robots”, KTH EES, 2014.

Anton Hou, “Analysis and Design of Dynamic Behavior for Embedded Systems Using Policy-Based Design”, KTH EES, 2014. With Detlef Scholle (Alten).

Diogo Almeida, “Event-Triggered Attitude Stabilization of a Quadcopter”, KTH EES, 2014.

Lorris Robin Dola , “Biomimetic trajectory tracking by means of event-based control”, KTH EES, 2014.

Maryam Oryani, “Applying Agent-Based Modeling to Studying Emergent Behaviors of the Immune System Cells”, KTH EES, 2014, supervised with Dr. Petter Brodin (Karolinska Institutet).

Johanna Orihuela Swartling, “Circumnavatigation control of multiple quadrotors”, KTH EES, 2014.

Kazumune Hashimoto, “Distributed Aperiodic Model Predictive Control for perturbed multi-agent systems”, KTH EES, 2013.

Adrien Rigaud, “Formal control synthesis for complex collaborative LTL tasks”, School of Electrical Engineering, KTH EES, 2013.

Etienne Dargaud, “Pick-up and delivery planning in multi-agent systems under temporal logic specifications”, KTH EES, 2013.

Martina Zambelli, “Nonholonomic Stabilization with Prescribed Performance Guarantees”, KTH EES, 2013.

Sebastian van de Hoef, “Extended Consensus Algorithms”, KTH EES, 2013.

Haukur Ingi Heidarsson, “Simulation and Implementation of Temporal Logic-based Motion Planning for Autonomous Vehicles”, KTH EES, 2013.

Philipp Heer, “Decentralized MPC for smart grid applications”, KTH EES, 2013.

Matteo Vanin, “Modeling, identification and navigation of autonomous air vehicles”, KTH EES, 2013.

Dinsefa Muhammed Mustefa, “Dual Arm Robot Control Based on Navigation Function with Prescribed Performance Guarantees”, KTH CSC and KTH EES, 2013.

Michele Colledanchise, “Stabilization and Collision Avoidance of Non-point Agents in Dynamic Environments: A Potential Field Approach”, KTH EES, 2012.

Axel Klingenstein, “Cooperation of Aerial and Ground Vehicles”, KTH EES, 2012.

Alejandro Marzinotto, “Decentralized Collaborative Control of Aerial and Ground Vehicles”, KTH EES, 2012.

Nicolas Vinikoff, “Some Fundamental Limitations of Networked Control Systems”, KTH EES, 2012.

Sergej Golfinger, “Event-triggered control for synchronization”, KTH EES, 2012. With University of Stuttgart.

Mazin Yousif, “Aperiodic Wireless Control of a Water Tank System”, KTH EES, 2011. With University of Grenoble.

Meng Guo: “Quantized Cooperative Control”, KTH EES, 2011.

Kim Vizins: “Modelling and Control of Dual Arm Robotic Manipulators”, KTH EES, 2011. (co-supervised with Prof. Bo Wahlberg).

Georg Seyboth: “Event-based Control for Multi-Agent Systems”, KTH EES, 2010. With University of Stuttgart.

Joel Rundgren: “Modelling and Control of an SMT Robot”, KTH EES, 2010.

Pedro Teixeira, “Event-Based Coordination of Multi-Agent Systems”, KTH EES, 2008. With Universidade do Porto.

Fotios Katsilieris, “Search and Secure Using Mobile Robots”, KTH EES, 2008.

REVIEWING

Frequent reviewer of papers for the following journal/conferences: IEEE International Conference on Robotics and Automation, IEEE Int. Conf. on Intelligent Robots and Systems, American Control Conference, IEEE Conference on Decision and Control, IEEE Transactions on Automatic Control, IEEE Transactions on Robotics, IEEE

Transactions on Autom.Science in Engineering, Automatica, International Journal on Systems Science, Robotics and Autonomous Systems, Mediterranean Control Conference, Hybrid Systems: Computation & Control Conference, International Journal of Control, International Journal of Robust and Nonlinear Control, Asian Journal of Control, IEEE Robotics Magazine, European Control Conference.

EDITORIAL/CONFERENCE COMMITTEE SERVICE

Associate Editor, Automatica, 2013-.

Associate Editor, IET Control Theory and Applications, 2013-.

Associate Editor, IEEE Transactions on Automation Science and Engineering, 2015-.

Member of Conference Editorial Board of the IEEE Control Systems Society (CSS), since 2016.

Senior Editor of the IEEE Conference on Automation Science and Engineering (CASE) Conference Editorial Board, 2017.

Member of the International Program Committee for the 13th International Symposium on Distributed Autonomous Robotic Systems (DARS), London, UK, November 2016.

Member of the International Program Committee for the 15th European Control Conference (ECC16), Aalborg, Denmark, June 2016.

Member of the International Program Committee for the 13th International Workshop on Discrete Event Systems (WODES), Xi'an, China, May 2016.

Member of the International Program Committee for the IEEE Conference on Control Applications (CCA), Sydney, Australia, October 2015.

Publicity Co-Chair of the ACM/IEEE 6th International Conference on Cyber-Physical Systems, ICCPS 2015, Seattle, USA, April 2015.

Member of the International Program Committee for the 14th European Control Conference (ECC15), Linz, Austria, July 2015.

Member of the Program Committee for the 2015 Robotics: Science and Systems Conference (RSS), Rome, Italy, July 2015.

Member of the International Program Committee for the IEEE Conference on Control Applications (CCA), Antibes, France, October 2014.

Member of the Program Committee for the 2014 Robotics: Science and Systems Conference (RSS), UC Berkeley, CA, USA, July 2014.

Member of the International Program Committee for the 13th European Control Conference (ECC14), Strasbourg, France, June 2014.

Member of the International Program Committee for the 13th Conference on Mobile Robots and Competitions, ROBOTICA 2013, Portugal, April 2013.

Member of the International Program Committee for the 12th European Control Conference (ECC13), Zurich, Switzerland, July 2013.

Member of the International Program Committee for the 12th International Conference on Control, Automation, Robotics and Vision, ICARCV 2012, China, December 2012.

Member of the International Program Committee for the 9th International Conference on Informatics in Control, Automation and Robotics (ICINCO), Rome, Italy, July 2012.

Member of the International Program Committee for the 10th IFAC Symposium on Robot Control (SYROCO 2012), Dubrovnik, Croatia, on September 05-07, 2012.

Associate Editor for the IEEE International Conference on Robotics and Automation (ICRA), St. Paul, Minnesota, USA, May 2012.

Member of the Conference Editorial Board of the IEEE Robotics and Automation Society (RAS), 2011-12.

Member of the International Program Committee for the 3rd International Workshop on Wireless Sensor, Actuator and Robot Networks (WiSARN),Shanghai, China, April 2011, in conjuction with IEEE INFOCOM 2011.

Member of the International Program Committee for the 11th Conference on Mobile Robots and Competitions, ROBOTICA 2011 Lisbon, Portugal, April 2011.

Member of the International Program Committee for the 6th annual IEEE Conference on Automation Science and Engineering (IEEE CASE), sponsored by the IEEE Robotics and Automation Society (RAS), August 2010 in Toronto, Ontario, Canada.

Member of the International Program Committee for the 1st International Workshop on Wireless Sensor, Actuator and Robot Networks (WiSARN), Montreal, Montreal, Canada, June 2010, in conjuction with IEEE WoWMoM 2010.

Member of the International Program Committee for the 10th Conference on Mobile Robots and Competitions, ROBOTICA 2010 Leiria, Portugal, March 2010.

Program Committee Chair for ACCESS 1st Industrial Workshop, Stockholm, Sweden, March 2008.

UNIVERSITY/SCHOOL/DEPARTMENTAL SERVICE

KTH ACCESS Linnaeus Centre, Vice Deputy Chair of CPS Thematic Area, 2015-.

Experimental Lab Director, Automatic Control Lab, School of EE, KTH, 2011-2012.

Smart Mobility Lab co-Director, Smart Mobility Lab, School of EE, KTH, 2013-2014.

Affiliated Faculty, KTH ACCESS Linnaeus Centre, from 2010.

Affiliated Faculty, KTH Centre for Autonomous Systems, from 2011.

ASSIGNMENTS AS PUBLIC EXAMINER/OPPONENT

Member of the PhD jury for Laura Dal Col, LAAS CNRS, Toulouse, France, October 2016.

External reviewer for the PhD Examination of Eoin Devane, University of Cambridge, UK, February 2016.

Member of the PhD committee of Johannes Nygren, Uppsala University, Sweden, February 2016.

Member of the PhD committee of Georg Seyboth, University of Stuttgart, Germany, January 2016.

Lic Opponent of Emil Fresk, LTU, Sweden, November 2015.

PhD Opponent of Thaker Nayl, LTU, Sweden, June 2015.

Member of the PhD committee of Giannis Roussos, NTUA, Greece, March 2015.

Member of the PhD committee of Ali Saidi, KTH, Sweden, November 2013.

Member of the PhD jury for Maria Guinaldo Losada, UNED, Spain, July 2013.

Member of the PhD committee of Alina Eqtami, NTUA, Greece, July 2013.

Member of the PhD jury for Gabriel Rodrigues De Campos, University of Grenoble, France, November 2012.

Member of the PhD committee for Dimitra Panagou, NTUA, Greece, August 2012.

Member of the PhD jury for Rosario Aragues Munoz, University of Zaragoza, Spain, March 2012.

ASSIGNMENTS AS OUTSIDE EXPERT

Reviewer for national research evaluation of Italian Research Council, summer 2016.

Reviewer for national research projects for Swiss Research Council, summer 2016.

Reviewer for project proposals to the Romanian Research Council, summer 2011.

Reviewer for proposals to the Programme Inter Carnot Fraunhofer, 2011

TEACHING EXPERIENCE

Lecturer and Course Responsible: FEL3230 Hybrid Systems, School of Electrical Engineering, KTH ACCESS specialized graduate course, Spring 2015.

Lecturer and Course Responsible: EL2910/FEL3330 Networked and Multi-Agent Control Systems, School of Electrical Engineering, KTH, Spring 2013.

Lecturer and Course Responsible: FEL3330 Networked and Multi-Agent Control Systems, School of Electrical Engineering, KTH ACCESS specialized graduate course, Spring 2011, Fall 2016.

Lecturer and Course Responsible: EL2450 Hybrid and Embedded Control Systems, School of Electrical Engineering, KTH, undergraduate course, Spring 2011-2017.

Guest Lecturer: Construction of Autonomous Unmanned Aerial Vehicles**,** KTH Dept of Machine Design, graduate course, Spring 2011.

Reading Group on Formal Methods for Control, School of Electrical Engineering, KTH, 2013-2017.

Reading Group on Secure and Reconfigurable Multiagent and Networked Control Systems, School of Electrical Engineering, KTH, Spring 2011.

Teaching Assistant: M.E. Department, NTUA Spring 2004, Spring 2005
Assisted in teaching an undergraduate level course on *Digital Control Systems.*

Teaching Assistant: M.E. Department, NTUA Spring 2006
Assisted in teaching a graduate level course on *Adaptive Control.*

Teaching Assistant: Department of Aeronautics and Astronautics, MIT Fall 2009
Assisted in teaching a graduate level course on *Multi-Agent Systems.*

AWARDS

2013 IEEE Transactions on Automatic Control Outstanding Reviewer.

2007 and 2008 KTH ACCESS Linnaeus Center Award for best post-doctorial application, selected in the four winning candidates out of more than one hundred applications.

General Chair's Recognition Award for Interactive Papers for the paper *Event-triggered control for multi-agent systems*, by D. V. Dimarogonas and K. H. Johansson, presented at the IEEE CDC, Shanghai, China, 2009.

INVITED TALKS (last updated 1/2012)

P9. “Bridging the gap between multi-agent navigation and networked control”, KTH ACCESS Internal Lecture Series, Stockholm, Sweden, June 2011.

P8. “Bridging the gap between multi-agent navigation and networked control”, Institute of Information and Communication Technologies, Electronics and Applied Mathematics, Université catholique de Louvain, Louvain-la-Neuve, Belgium, May 2011.

P7. “Bridging the gap between multi-agent navigation and networked control”, Department of Electrical Engineering and Information Technology, Institut fur Systemtheorie und Regelungstechnik Universitaet Stuttgart, Stuttgart, Germany, November 2010.

P6. “Connectivity Maintenance Control Strategies in Multi-Robot Systems”, Department of Electrical Engineering and Information Technology, Technsiche Universität München, Munich, Germany, February 2009.

P5. “Decentralized Control Methods for Navigation of Multi-Agent Systems to Cooperative and Non-cooperative Equilibria”, CCRL-CoTeSys Central Robotics Laboratory Technsiche Universität München, Munich, Germany, July 2008.

P4. “Analysis of robot navigation schemes using Rantzer's dual Lyapunov theorem”, Delft Center for Systems and Control, Delft University of Technology, Delft, the Netherlands, May 2008.

P3. “Decentralized Control Methods for Navigation of Multi-Agent Systems”, Département d'Automatique de Grenoble and France and Inria Rhones Alpes, Grenoble, France, November 2007.

P2. “Decentralized Control Methods for Navigation of Multi-Agent Systems to Cooperative and Non-cooperative Equilibria”, Automatic Control Lab, School of

Electrical Engineering, Royal Institute of Technology, Stockholm, Sweden, January 2007.

P1. "Decentralized Navigation Concepts for Multi-Agent Systems to Cooperative & Non-Cooperative Equilibria", Dynamics and Control Systems Lab, School of Aerospace Engineering, Georgia Institute of Technology, Atlanta, Georgia, USA, October 2005.

PUBLICATIONS

ACCEPTED PUBLICATIONS (in reversed chronological order)

Journal Papers

J45. Pedro O. Pereira and Dimos V. Dimarogonas, Family of Controllers for Attitude Synchronization on the Sphere, *Automatica, 2016, to appear.*

J44. Davide Liuzza, Dimos V. Dimarogonas, Mario di Bernardo and Karl H. Johansson, Distributed Model Based Event-Triggered Control for Synchronization of Multi-Agent Systems, *Automatica, 2016, to appear.*

J43. Ziyang Meng, Dimos V. Dimarogonas and Karl H. Johansson, Attitude coordinated control of multiple underactuated axisymmetric spacecraft, *IEEE Transactions on Control of Network Systems, to appear, 2016.*

J42. Meng Guo, Charalampos P. Bechlioulis, Kostas J. Kyriakopoulos and Dimos V. Dimarogonas, Hybrid Control of Multi-agent Systems with Contingent Temporal Tasks and Prescribed Formation Constraints, *IEEE Transactions on Control of Network Systems, to appear, 2016.*

J41. Martin Andreasson, Roger Wiget, Dimos V. Dimarogonas, Karl H. Johansson and Goran Andersson, Distributed Frequency Control through MTDC Transmission Systems, *IEEE Transactions on Power Systems, to appear, 2016.*

J40. Kazumune Hashimoto, Shuichi Adachi and Dimos V. Dimarogonas, Self-triggered Model Predictive Control for Nonlinear Input-Affine Dynamical Systems via Adaptive Control Samples Selection, *IEEE Transactions on Automatic Control, 2017, to appear.*

J39. Martin Andreasson, Dimos V. Dimarogonas, Henrik Sandberg and Karl H. Johansson, Distributed Controllers for Multi-Terminal HVDC Transmission Systems, *IEEE Transactions on Control of Network Systems, 2016, to appear.*

J38. Jana Tumova and Dimos V. Dimarogonas, Multi-Agent Planning under Local LTL Specifications and Event-Based Synchronization, *Automatica, Vol. 70, pp. 239-248, August 2016.*

J37. Xiangyu Meng, Ziyang Meng, Tongwen Chen, Dimos V. Dimarogonas and Karl Henrik Johansson, Pulse Width Modulation for Multi-Agent Systems, *Automatica, Vol. 70, pp. 173-178, August 2016.*

J36. Meng Guo, Jana Tumova and Dimos V. Dimarogonas, Communication-Free Multi-Agent Control under Local Temporal Tasks and Relative-Distance Constraints, *IEEE Transactions on Automatic Control, 2017, to appear.*

J35. Tao Yang, Ziyang Meng, Dimos V. Dimarogonas and Karl H. Johansson, Periodic Behaviors for Discrete-time Second-order Multi-agent Systems with Input Saturation Constraints, *IEEE Transactions on Circuits and Systems II, Vol. 63, No. 7, pp. 663-667, July 2016.*

J34. Antonio Adaldo, Francesco Alderisio, Davide Liuzza, Guodong Shi, Dimos V. Dimarogonas, Mario di Bernardo and Karl H. Johansson, Event-Triggered Pinning Control of Switching Networks, *IEEE Transactions on Control of Network Systems, Vol. 2, No. 2, pp. 204-213, June 2015.*

J33. Georg S. Seyboth, Dimos V. Dimarogonas, Karl H. Johansson, Paolo Frasca and Frank Allgower, On Robust Synchronization of Heterogeneous Linear Multi-Agent Systems with Static Couplings, *Automatica, Vol. 53, pp. 392-399, March 2015.*

J32. Ross Anderson, Dejan Milutinovic and Dimos V. Dimarogonas, Self-Triggered Sampling for Second-Moment Stability of State-Feedback Controlled SDE Systems, *Automatica, Vol. 54, pp. 8-15, April 2015.*

J31. Ziyang Meng, Tao Yang, Dimos V. Dimarogonas and Karl H. Johansson, Coordinated Output Regulation of Heterogeneous Linear Systems under Switching Topologies, *Automatica, Vol. 53, pp. 362-368, March 2015.*

J30. Martina Zambelli, Yiannis Karayiannidis and Dimos V. Dimarogonas, Posture regulation for unicycle-like robots with prescribed performance guarantees, *IET Control Theory & Applications, Vol. 9, No. 2, pp. 192-202, February 2015.*

J29. Kazumune Hashimoto, Shuichi Adachi and Dimos V. Dimarogonas, Distributed Aperiodic Model Predictive Control for Multi-Agent systems, *IET Control Theory & Applications, Vol. 9, No. 1, pp. 10-20, January 2015.*

J28. Meng Guo and Dimos V. Dimarogonas, Multi-agent Plan Reconfiguration under Local LTL Specifications, *International Journal of Robotics Research, Vol. 34, No. 2, pp. 218-235, February 2015.*

J27. Rosario Aragues, Guodong Shi, Dimos V. Dimarogonas, Carlos Sagues, Karl H. Johansson and Youcef Mezouar, Distributed algebraic connectivity estimation for undirected graphs with upper and lower bounds, *Automatica, Vol. 50, no. 12, 3253-3259, December 2014.*

J26. Johanna Orihuela Swartling, Iman Shames, Karl H. Johansson and Dimos V. Dimarogonas, Collective Circumnavigation, *Unmanned Systems, Vol. 2, No. 03, pp. 219-229, July 2014.*

J25. Martin Andreasson, Dimos V. Dimarogonas, Henrik Sandberg and Karl H. Johansson, Distributed Control of Networked Dynamical Systems: Static Feedback, Integral Action and Consensus, *IEEE Transactions on Automatic Control, Vol. 59, No. 7, pp. 1750-1764, July 2014.*

J24. Ziyang Meng, Dimos V. Dimarogonas and Karl H. Johansson, Leader-follower Coordinated Tracking of Multiple Heterogeneous Lagrange Systems Using Continuous Control, *IEEE Transactions on Robotics, Vol. 30, No. 3, pp. 739-745, June 2014.*

J23. Yuecheng Yang, Dimos V. Dimarogonas and Xiaoming Hu, Opinion consensus of modified Hegselmann-Krause models, *Automatica, vol. 50, no. 2, pp. 622-627, February 2014.*

J22. Tao Yang, Ziyang Meng, Dimos V. Dimarogonas and Karl H. Johansson, Global Consensus for Discrete-time Multi-Agent Systems with Input Saturation Constraints, *Automatica, vol. 50, no. 2, pp. 499-506, February 2014.*

J21. Meng Guo, Michael M. Zavlanos and Dimos V. Dimarogonas, Controlling the Relative Agent Motion in Multi-Agent Formation Stabilization, *IEEE Transactions on Automatic Control, Vol. 59. No. 3, pp. 820-826, March 2014.*

J20. Pablo Millan Gata, Luis Orihuela, Carlos Vivas, Francisco R. Rubio, Dimos V. Dimarogonas and Karl H. Johansson, Sensor-network-based robust distributed control and estimation, Control Engineering Practice, Vol. 21. No. 9, pp. 1238-1249, September 2013.

J19. Meng Guo and Dimos V. Dimarogonas, Consensus with Quantized Relative State Measurements, Automatica, Vol. 49, No. 8, pp. 2531–2537, August 2013.

J18. Maria Guinaldo, Dimos V. Dimarogonas, Karl H. Johansson, José Sánchez Moreno and Sebastián Dormido, "Distributed Event-Based Control Strategies for Interconnected Linear Systems", IET Control Theory & Applications, Vol. 7, No. 6, pp. 877-886, April 2013.

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