Antonio Adaldo

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Current Employment

PhD Student in Automatic Control, KTH: 2014/2–2018/8

Supervisors: Karl H. Johansson, Dimos V. Dimarogonas

Research topic: Hybrid control of multi-agent systems

Research Projects Involvement: Horizon 2020 AEROWORKS, KTH Smart Mobility Lab, KTH Cluster for Underwater Technology, SSF COLMAN

Education

MSc: Automation Engineering, University of Naples, Dec 2013, with Honors

BSc: Automation Engineering, University of Naples, Sep 2011, with Honors

Teaching Experience

T.A.: *Hybrid and Embedded Control Systems*, KTH, 2017, with Dimos V. Dimarogonas

T.A.: *Automatic Control, Project Course* KTH, 2016, with Jonas Mantersson

T.A.: *Automatic Control, General Course*, KTH, 2015–2016, with Henrik Sandberg

Supervisor: Six MSc Thesis and one undergraduate summer project to date.

Skillset

Theoretical expertise: Hybrid systems, multi-agent systems, aerial robotics

Working tools: Python, ROS, Matlab/Simulink®, TeX, git

Side tools: HTML, CSS, Javascript, C/C++, Mathematica®, Julialang

References

Up to three reference letters available upon request.
A (small) part of my ROS projects are available through my *Github* page `github.com/adaldo`.
My papers are reachable through my webpage `people.kth.se/~adaldo`.

Publications

Journal Papers

Adaldo, Alderisio, Liuzza, Dimarogonas, di Bernardo, and Johansson, "Event-Triggered Pinning Control of Switching Networks," *IEEE Transactions on Control of Network Systems (CONES)*, vol. 2, no. 2, pp. 204–213, 2015

Conference Papers

——, "Event-Triggered Pinning Control of Complex Networks with Switching Topologies," in *IEEE Conference on Decision and Control*, 2014

Adaldo, Liuzza, Dimarogonas, and Johansson, "Control of Multi-Agent Systems with Event-Triggered Cloud Access," in *European Control Conference*, 2015

Adaldo, Alderisio, Liuzza, Dimarogonas, di Bernardo, and Johansson, "Multi-Agent Trajectory Tracking with Event-Triggered Cloud Access," in *IEEE Conference on Decision and Control*, 2016

Adaldo, Dimarogonas, and Johansson, "Hybrid coverage and inspection control for anisotropic mobile sensor teams," in *IFAC World Congress*, 2017, to appear

Wei, Zhang, Adaldo, and Johansson, "Finite-time attitude synchronization with a discontinuous protocol," in *IEEE International Conference on Control and Automation (ICCA)*, 2017, to appear

Thesis

Adaldo, "Event-triggered control of multi-agent systems: pinning control, cloud coordination, and sensor coverage," Licentiate Thesis, KTH Royal Institute of Technology, 2016

Book Chapters

Adaldo, Liuzza, Dimarogonas, and Johansson, *Sensing and Control for Autonomous Vehicles: Applications to Land, Water and Air Vehicles*, 2017, to appear, ch. Coordination of Multi-agent Systems with Intermittent Access to a Cloud Repository

Under Review

Journal Papers

——, "Cloud-supported formation control of second-order multi-agent systems," *Submitted to the IEEE Transactions on Control of Network Systems (CONES)*, 2017

Conference Papers

Adaldo, Mansouri, Kanellakis, Dimarogonas, Johansson, and Nikolakopoulos, "Cooperative coverage for surveillance of 3d structures," in *Submitted to the IEEE/JRS International Symposium on Intelligent Robots and Systems (IROS)*, 2017

Boccia, Adaldo, Dimarogonas, di Bernardo, and Johansson, "Tracking a mobile target by multi-robot cirumnavigation using bearing measurements," in *Submitted to the IEEE Conference on Decision and Control (CDC)*, 2017