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: Seven 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

[1] Adaldo, Alderisio, Liuzza, Dimarogonas, di Bernardo, and Johansson. Event-Triggered Pinning Control of Switching Networks. *IEEE Transactions on Control of Network Systems (CONES)*, 2(2):204–213, 2015.

Submitted Journal Papers

[2] Adaldo, Liuzza, Dimarogonas, and Johansson. Cloud-supported formation control of second-order multi-agent systems. *Submitted to the IEEE Transactions on Control of Network Systems (CONES)*, 2017.

[3] Wei, Zhang, Adaldo, Thunberg, Hu, and Johansson. Finite-time attitude synchronization with distributed discontinuous protocols. *Submitted to the IEEE Transactions on Automatic Control (TAC)*, 2017.

Conference Papers

[4] Adaldo, Alderisio, Liuzza, Dimarogonas, di Bernardo, and Johansson. Event-Triggered Pinning Control of Complex Networks with Switching Topologies. In *IEEE Conference on Decision and Control*, 2014.

[5] 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.

[6] Adaldo, Dimarogonas, and Johansson. Hybrid coverage and inspection control for anisotropic mobile sensor teams. In *IFAC World Congress*, 2017, to appear.

[7] Adaldo, Liuzza, Dimarogonas, and Johansson. Control of Multi-Agent Systems with Event-Triggered Cloud Access. In *European Control Conference*, 2015.

[8] 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.

Submitted Conference Papers

[9] 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.

[10] 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.

Book Chapters

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

Theses

[12] Adaldo. *Event-triggered control of multi-agent systems: pinning control, cloud coordination, and sensor coverage*. Licentiate thesis, KTH Royal Institute of Technology, 2016.