Antonio Adaldo

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Current Employment

PhD Student in Automatic Control: KTH, Feb 2014 to May 2018

o Supervisors: Karl H. Johansson, Dimos V. Dimarogonas
o Research topic: Hybrid control of multi-agent systems
o Research Projects Involvement: Horizon 2020 AEROWORKS, KTH Smart Mobility Lab, KTH Cluster for Underwater Technology, SSF COLMAN

Experience

Visiting Researcher: University of Pennsylvania, Sep 2017 to Dec 2017

o Supervisor: George J. Pappas
o Research topics: Dynamic programming, reinforcement learning
Board Member: PhD Chapter at KTH, July 2017 to June 2018

Education

MSc: Automation Engineering, University of Naples, Dec 2013, 110/110 with Honors
BSc: Automation Engineering, University of Naples, Sep 2011, 110/110 with Honors

Teaching

T.A.: *Hybrid and Embedded Control Systems*, KTH, 2017–2018, with Dimos V. Dimarogonas

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

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

Supervisor: Six MSc Thesis supervised to date.

Skillset

Theoretical expertise: Hybrid systems, multi-agent systems, robotics
Working tools: Python, ROS, Matlab/Simulink®, TeX, Git, HTML/CSS, C/C++
Languages: Italian (fluent), English (fluent), Swedish (intermediate)

References

Reference letters can be provided upon request.
My publications are reachable through my webpage `people.kth.se/~adaldo`.

Publications

Journal Papers...

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

[2]   Wei, Zhang, Adaldo, Thunberg, Hu, and Johansson. Finite-time attitude synchronization with distributed discontinuous protocols. *IEEE Transactions on Automatic Control (TAC)*, Accepted for publication.

[3]   Adaldo, Alderisio, Liuzza, Dimarogonas, di Bernardo, and Johansson. Event-triggered pinning control of switching networks. *IEEE Transactions on Control of Network Systems (CONES)*, 2015.

Conference Papers..

[4]   Adaldo, Dimarogonas, and Johansson. Cloud-supported effective coverage of 3D structures. In *European Control Conference (ECC)*, Submitted for publication.

[5]   Boccia, Adaldo, Dimarogonas, di Bernardo, and Johansson. Tracking a mobile target by multi-robot cirumnavigation using bearing measurements. In *IEEE Conference on Decision and Control (CDC)*, 2017.

[6]   Adaldo, Mansouri, Kanellakis, Dimarogonas, Johansson, and Nikolakopoulos. Cooperative coverage for surveillance of 3D structures. In *IEEE/JRS International Symposium on Intelligent Robots and Systems (IROS)*, 2017.

[7]   Wei, Zhang, Adaldo, and Johansson. Finite-time attitude synchronization with a discontinuous protocol. In *IEEE International Conference on Control and Automation (ICCA)*, 2017.

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

[9]   Adaldo, Alderisio, Liuzza, Dimarogonas, di Bernardo, and Johansson. Multi-agent trajectory tracking with event-triggered cloud access. In *IEEE Conference on Decision and Control (CDC)*, 2016.

[10]   Adaldo, Liuzza, Dimarogonas, and Johansson. Control of multi-agent systems with event-triggered cloud access. In *European Control Conference (ECC)*, 2015.

[11]   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 (CDC)*, 2014.

Book Chapters..

[12]   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. Springer, 2017.

Theses...

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