# Antonio Adaldo

Osquldas väg 10 – 10044 Stockholm – Sweden

+46 (7) 266 2195 • adaldo@kth.se • people.kth.se/ adaldo
antonio-adaldo-8458b863 • adaldo

## Current Employment

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

**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, 110/110 with Honors

**BSc**: Automation Engineering, University of Naples, Sep 2011, 110/110 with Honors

## Teaching Experience

**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 (working knowledge)

## 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.