## Search: Drones
### List of Publications

### 2020
#### Journal Articles
[J1] D Tzoumanikas, F Graule, Q Yan, D Shah, M Popovic and S Leutenegger,
**Aerial Manipulation Using Hybrid Force and Position NMPC Applied to Aerial Writing,**

#### Conference and Workshop Papers
[C1] A Dai, S Papatheodorou, N Funk, D Tzoumanikas and S Leutenegger,
**Fast frontier-based information-driven autonomous exploration with an MAV,**
[C2] D Tzoumanikas, Q Yan and S Leutenegger,
**Nonlinear mpc with motor failure identification and recovery for safe and aggressive multicopter flight,**

### 2019
#### Journal Articles
[J1] D Tzoumanikas, W Li, M Grimm, K Zhang, M Kovac and S Leutenegger,
**Fully autonomous micro air vehicle flight and landing on a moving target using visual–inertial estimation and model-predictive control,**
[J2] K Zhang, P Chermprayong, D Tzoumanikas, W Li, M Grimm, M Smentoch, S Leutenegger and M Kovac,
**Bioinspired design of a landing system with soft shock absorbers for autonomous aerial robots,**

### 2017
#### Journal Articles
[J1] P Oettershagen, A Melzer, T Mantel, K Rudin, T Stastny, B Wawrzacz, T Hinzmann, S Leutenegger, K Alexis and R Siegwart,
**Design of small hand-launched solar-powered UAVs: From concept study to a multi-day world endurance record flight,**

### 2015
#### Conference and Workshop Papers
[C1] P Oettershagen, A Melzer, T Mantel, K Rudin, R Lotz, D Siebenmann, S Leutenegger, K Alexis and R Siegwart,
**A solar-powered hand-launchable UAV for low-altitude multi-day continuous flight,**
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[C1] P. Oettershagen, A. Melzer, S. Leutenegger, K. Alexis and R. Siegwart,
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[C2] S. Leutenegger, A. Melzer, K. Alexis and R. Siegwart,
Robust state estimation for small unmanned airplanes,
2014 IEEE Conference on Control Applications (CCA), 1003-1010, 2014.

PhDThesis

[PhD1] S. Leutenegger,
Unmanned solar airplanes: Design and algorithms for efficient and robust autonomous operation,
ETH Zurich, 2014.

2013
Conference and Workshop Papers

[C1] J. Nikolic, M. Burri, J. Rehder, S. Leutenegger, C. Huerzeler and R. Siegwart,
A UAV system for inspection of industrial facilities,