

Miguel Aranda

List of Publications by Year in descending order

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34
papers

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35
docs citations

35
times ranked

266
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | As-Rigid-as-Possible Shape Servoing. IEEE Robotics and Automation Letters, 2022, 7, 3898-3905. | 5.1 | 15 |
| 2 | Adaptive Deformation Control for Elastic Linear Objects. Frontiers in Robotics and AI, 2022, 9, 868459. | 3.2 | 5 |
| 3 | Multirobot control with double-integrator dynamics and control barrier functions for deformable object transport. , 2022, , . | | 2 |
| 4 | Editorial: Robotic Handling of Deformable Objects. IEEE Robotics and Automation Letters, 2022, 7, 8257-8259. | 5.1 | 0 |
| 5 | Enclosing a moving target with an optimally rotated and scaled multiagent pattern. International Journal of Control, 2021, 94, 601-611. | 1.9 | 4 |
| 6 | Distributed Linear Control of Multirobot Formations Organized in Triads. IEEE Robotics and Automation Letters, 2021, 6, 8498-8505. | 5.1 | 2 |
| 7 | Adaptive Multirobot Formation Planning to Enclose and Track a Target With Motion and Visibility Constraints. IEEE Transactions on Robotics, 2020, 36, 142-156. | 10.3 | 24 |
| 8 | Monocular Visual Shape Tracking and Servoing for Isometrically Deforming Objects. , 2020, , . | | 10 |
| 9 | Simultaneous shape control and transport with multiple robots. , 2020, , . | | 7 |
| 10 | Scale-Free Vision-Based Aerial Control of a Ground Formation With Hybrid Topology. IEEE Transactions on Control Systems Technology, 2019, 27, 1703-1711. | 5.2 | 3 |
| 11 | Robust stability analysis of formation control in local frames under time-varying delays and actuator faults. Journal of the Franklin Institute, 2019, 356, 1131-1153. | 3.4 | 9 |
| 12 | Deformation-based shape control with a multirobot system. , 2019, , . | | 8 |
| 13 | Multirobot Target Enclosing with Freely Selected Observation Distances. , 2018, , . | | 0 |
| 14 | Controlling Mobile Robot Teams from 1D Homographies. Advances in Industrial Control, 2017, , 79-102. | 0.5 | 0 |
| 15 | Coordinate-Free Control of Multirobot Formations. Advances in Industrial Control, 2017, , 131-181. | 0.5 | 1 |
| 16 | Formation of differential-drive vehicles with field-of-view constraints for enclosing a moving target. , 2017, , . | | 8 |
| 17 | Time delay compensation based on Smith Predictor in multiagent formation control. IFAC-PapersOnLine, 2017, 50, 11645-11651. | 0.9 | 11 |
| 18 | Angle-Based Navigation Using the 1D Trifocal Tensor. Advances in Industrial Control, 2017, , 19-51. | 0.5 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Vision-Based Control for Nonholonomic Vehicles. <i>Advances in Industrial Control</i> , 2017, , 53-77. | 0.5 | 0 |
| 20 | Conclusions and Directions for Future Research. <i>Advances in Industrial Control</i> , 2017, , 183-184. | 0.5 | 0 |
| 21 | Control of Mobile Robot Formations Using Aerial Cameras. <i>Advances in Industrial Control</i> , 2017, , 103-130. | 0.5 | 0 |
| 22 | Connectivity-preserving formation stabilization of unicycles in local coordinates using minimum spanning tree. , 2016, , . | | 2 |
| 23 | Distributed Formation Stabilization Using Relative Position Measurements in Local Coordinates. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 3925-3935. | 5.7 | 32 |
| 24 | Coordinate-free formation stabilization based on relative position measurements. <i>Automatica</i> , 2015, 57, 11-20. | 5.0 | 38 |
| 25 | Formation Control of Mobile Robots Using Multiple Aerial Cameras. <i>IEEE Transactions on Robotics</i> , 2015, 31, 1064-1071. | 10.3 | 47 |
| 26 | Three-dimensional multirobot formation control for target enclosing. , 2014, , . | | 20 |
| 27 | Multi-robot Formations: One Homography to Rule Them All. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 703-714. | 0.6 | 2 |
| 28 | Angle-based homing from a reference image set using the 1D trifocal tensor. <i>Autonomous Robots</i> , 2013, 34, 73-91. | 4.8 | 5 |
| 29 | Sinusoidal input-based visual control for nonholonomic vehicles. <i>Robotica</i> , 2013, 31, 811-823. | 1.9 | 3 |
| 30 | Partially distributed multirobot control with multiple cameras. , 2013, , . | | 6 |
| 31 | Controlling Multiple Robots through Multiple 1D Homographies. , 2013, , . | | 1 |
| 32 | Visual Control for Multirobot Organized Rendezvous. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012, 42, 1155-1168. | 5.0 | 23 |
| 33 | Planar motion estimation from 1D homographies. , 2012, , . | | 3 |
| 34 | Omnidirectional visual homing using the 1D trifocal tensor. , 2010, , . | | 12 |