

Konstantinos Karydis

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

435
citations

933447

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424
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | ACD-EDMD: Analytical Construction for Dictionaries of Lifting Functions in Koopman Operator-Based Nonlinear Robotic Systems. IEEE Robotics and Automation Letters, 2022, 7, 906-913. | 5.1 | 10 |
| 2 | Task Planning on Stochastic Aisle Graphs for Precision Agriculture. IEEE Robotics and Automation Letters, 2021, 6, 3287-3294. | 5.1 | 12 |
| 3 | A pneumatic random-access memory for controlling soft robots. PLoS ONE, 2021, 16, e0254524. | 2.5 | 17 |
| 4 | Toward Impact-resilient Quadrotor Design, Collision Characterization and Recovery Control to Sustain Flight after Collisions. , 2021, , . | | 15 |
| 5 | Enhancement for Robustness of Koopman Operator-based Data-driven Mobile Robotic Systems. , 2021, , . | | 3 |
| 6 | Position Control and Variable-Height Trajectory Tracking of a Soft Pneumatic Legged Robot. , 2021, , . | | 4 |
| 7 | Online Exploration and Coverage Planning in Unknown Obstacle-Cluttered Environments. IEEE Robotics and Automation Letters, 2020, 5, 5969-5976. | 5.1 | 29 |
| 8 | A Data-driven Hierarchical Control Structure for Systems with Uncertainty. , 2020, , . | | 5 |
| 9 | SoRX: A Soft Pneumatic Hexapedal Robot to Traverse Rough, Steep, and Unstable Terrain. , 2020, , . | | 11 |
| 10 | Development and Testing of a Novel Automated Insect Capture Module for Sample Collection and Transfer. , 2020, , . | | 0 |
| 11 | Development of a Soft Robotic Wearable Device to Assist Infant Reaching. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2020, 3, . | 0.5 | 16 |
| 12 | Analysis of Ground Effect for Small-Scale UAVs in Forward Flight. IEEE Robotics and Automation Letters, 2019, 4, 3860-3867. | 5.1 | 38 |
| 13 | Multi-robot Field Exploration in Hex-Decomposed Environments for Dubins Vehicles. , 2019, , . | | 4 |
| 14 | Optimal Steering of Stochastic Mobile Robots that Undergo Collisions with their Environment. , 2019, , . | | 7 |
| 15 | Fast, autonomous flight in GPS-denied and cluttered environments. Journal of Field Robotics, 2018, 35, 101-120. | 6.0 | 123 |
| 16 | Minimalistic Neural Network Architectures for Safe Navigation of Small Mobile Robots. , 2018, , . | | 1 |
| 17 | Energetics in robotic flight at small scales. Interface Focus, 2017, 7, 20160088. | 3.0 | 55 |
| 18 | Energy efficiency of trajectory generation methods for stop-and-go aerial robot navigation. , 2017, , . | | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | A Navigation and Control Strategy for Miniature Legged Robots. IEEE Transactions on Robotics, 2017, 33, 214-219. | 10.3 | 11 |
| 20 | Uncertainty Quantification for Small Robots Using Principal Orthogonal Decomposition. Springer Proceedings in Advanced Robotics, 2017, , 33-42. | 1.3 | 3 |
| 21 | Probabilistically valid stochastic extensions of deterministic models for systems with uncertainty. International Journal of Robotics Research, 2015, 34, 1278-1295. | 8.5 | 25 |
| 22 | A template candidate for miniature legged robots in quasi-static motion. Autonomous Robots, 2015, 38, 193-209. | 4.8 | 12 |
| 23 | Symbolic planning and control using game theory and grammatical inference. Engineering Applications of Artificial Intelligence, 2015, 37, 378-391. | 8.1 | 8 |