

Jia Pan

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,336
citations

430874

18
h-index

289244

40
g-index

58
all docs

58
docs citations

58
times ranked

1845
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Motion planning with sequential convex optimization and convex collision checking. <i>International Journal of Robotics Research</i> , 2014, 33, 1251-1270. | 8.5 | 532 |
| 2 | Towards Optimally Decentralized Multi-Robot Collision Avoidance via Deep Reinforcement Learning. , 2018, , . | | 278 |
| 3 | Soft magnetic skin for super-resolution tactile sensing with force self-decoupling. <i>Science Robotics</i> , 2021, 6, . | 17.6 | 205 |
| 4 | Distributed multi-robot collision avoidance via deep reinforcement learning for navigation in complex scenarios. <i>International Journal of Robotics Research</i> , 2020, 39, 856-892. | 8.5 | 159 |
| 5 | Deep-Learned Collision Avoidance Policy for Distributed Multiagent Navigation. <i>IEEE Robotics and Automation Letters</i> , 2017, 2, 656-663. | 5.1 | 112 |
| 6 | Highly anisotropic and flexible piezoceramic kirigami for preventing joint disorders. <i>Science Advances</i> , 2021, 7, . | 10.3 | 88 |
| 7 | A Two-Stage Reinforcement Learning Approach for Multi-UAV Collision Avoidance Under Imperfect Sensing. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 3098-3105. | 5.1 | 66 |
| 8 | Three-Dimensional Deformable Object Manipulation Using Fast Online Gaussian Process Regression. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 979-986. | 5.1 | 54 |
| 9 | 3-D Deformable Object Manipulation Using Deep Neural Networks. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 4255-4261. | 5.1 | 52 |
| 10 | An Underwater Robotic Manipulator with Soft Bladders and Compact Depth-Independent Actuation. <i>Soft Robotics</i> , 2020, 7, 535-549. | 8.0 | 43 |
| 11 | Challenges and Outlook in Robotic Manipulation of Deformable Objects. <i>IEEE Robotics and Automation Magazine</i> , 2022, 29, 67-77. | 2.0 | 43 |
| 12 | Plant Phenotyping by Deep-Learning-Based Planner for Multi-Robots. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 3113-3120. | 5.1 | 42 |
| 13 | Fast probabilistic collision checking for sampling-based motion planning using locality-sensitive hashing. <i>International Journal of Robotics Research</i> , 2016, 35, 1477-1496. | 8.5 | 40 |
| 14 | Reinforcement Learned Distributed Multi-Robot Navigation With Reciprocal Velocity Obstacle Shaped Rewards. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 5896-5903. | 5.1 | 36 |
| 15 | Getting Robots Unfrozen and Unlost in Dense Pedestrian Crowds. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 1178-1185. | 5.1 | 35 |
| 16 | Robotics in ecommerce logistics. <i>HKIE Transactions</i> , 2015, 22, 68-77. | 0.1 | 33 |
| 17 | Keyfilter-Aware Real-Time UAV Object Tracking. , 2020, , . | | 30 |
| 18 | Optimization-Based Framework for Excavation Trajectory Generation. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 1479-1486. | 5.1 | 29 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Cloth Manipulation Using Random-Forest-Based Imitation Learning. IEEE Robotics and Automation Letters, 2019, 4, 2086-2093. | 5.1 | 26 |
| 20 | Manipulating Highly Deformable Materials Using a Visual Feedback Dictionary. , 2018, , . | | 23 |
| 21 | VR-ORCA: Variable Responsibility Optimal Reciprocal Collision Avoidance. IEEE Robotics and Automation Letters, 2021, 6, 4520-4527. | 5.1 | 23 |
| 22 | Visualizing the Invisible: Occluded Vehicle Segmentation and Recovery. , 2019, , . | | 21 |
| 23 | Survey of optimal motion planning. IET Cyber-Systems and Robotics, 2019, 1, 13-19. | 1.8 | 20 |
| 24 | A Smart Robotic Walker With Intelligent Close-Proximity Interaction Capabilities for Elderly Mobility Safety. Frontiers in Neurorobotics, 2020, 14, 575889. | 2.8 | 20 |
| 25 | Real-Time UAV Path Planning for Autonomous Urban Scene Reconstruction. , 2020, , . | | 20 |
| 26 | Proxemic group behaviors using reciprocal multi-agent navigation. , 2016, , . | | 19 |
| 27 | Surface Texture Recognition by Deep Learning-Enhanced Tactile Sensing. Advanced Intelligent Systems, 2022, 4, 2100076. | 6.1 | 19 |
| 28 | Deep Reinforcement Learning for Robot Collision Avoidance With Self-State-Attention and Sensor Fusion. IEEE Robotics and Automation Letters, 2022, 7, 6886-6893. | 5.1 | 19 |
| 29 | Fast Localization and Segmentation of Tissue Abnormalities by Autonomous Robotic Palpation. IEEE Robotics and Automation Letters, 2021, 6, 1707-1714. | 5.1 | 18 |
| 30 | Safe Navigation With Human Instructions in Complex Scenes. IEEE Robotics and Automation Letters, 2019, 4, 753-760. | 5.1 | 17 |
| 31 | Learning-Based Optoelectronically Innervated Tactile Finger for Rigid-Soft Interactive Grasping. IEEE Robotics and Automation Letters, 2021, 6, 3817-3824. | 5.1 | 16 |
| 32 | Planning Curvature and Torsion Constrained Ribbons in 3D With Application to Intracavitary Brachytherapy. IEEE Transactions on Automation Science and Engineering, 2015, 12, 1332-1345. | 5.2 | 15 |
| 33 | Intuitive Control of Humanoid Soft-Robotic Hand BCL-13. , 2018, , . | | 15 |
| 34 | Learning Selective Communication for Multi-Agent Path Finding. IEEE Robotics and Automation Letters, 2022, 7, 1455-1462. | 5.1 | 15 |
| 35 | Rope caging and grasping. , 2016, , . | | 14 |
| 36 | Collaborative Human-Robot Motion Generation Using LSTM-RNN. , 2018, , . | | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Context-Aware Spatio-Recurrent Curvilinear Structure Segmentation. , 2019, , . | | 12 |
| 38 | Rigid-Soft Interactive Learning for Robust Grasping. IEEE Robotics and Automation Letters, 2020, 5, 1720-1727. | 5.1 | 12 |
| 39 | Compact Reachability Map for Excavator Motion Planning. , 2019, , . | | 11 |
| 40 | An Efficient Centralized Planner for Multiple Automated Guided Vehicles at the Crossroad of Polynomial Curves. IEEE Robotics and Automation Letters, 2022, 7, 398-405. | 5.1 | 10 |
| 41 | An Efficient and Responsive Robot Motion Controller for Safe Human-Robot Collaboration. IEEE Robotics and Automation Letters, 2021, 6, 6068-6075. | 5.1 | 9 |
| 42 | A Hierarchical Approach for Mobile Robot Exploration in Pedestrian Crowd. IEEE Robotics and Automation Letters, 2022, 7, 175-182. | 5.1 | 8 |
| 43 | Living Object Grasping Using Two-Stage Graph Reinforcement Learning. IEEE Robotics and Automation Letters, 2021, 6, 1950-1957. | 5.1 | 7 |
| 44 | Collecting a Flock With Multiple Sub-Groups by Using Multi-Robot System. IEEE Robotics and Automation Letters, 2022, 7, 6974-6981. | 5.1 | 7 |
| 45 | Human-Robot Collaboration using Variable Admittance Control and Human Intention Prediction. , 2020, , . | | 6 |
| 46 | Robust shape estimation for 3D deformable object manipulation. Communications in Information and Systems, 2018, 18, 107-124. | 0.5 | 6 |
| 47 | Tactile Super-Resolution Model for Soft Magnetic Skin. IEEE Robotics and Automation Letters, 2022, 7, 2589-2596. | 5.1 | 6 |
| 48 | Efficient multi-agent global navigation using interpolating bridges. , 2017, , . | | 5 |
| 49 | An empirical comparison among the effect of different supports in sequential robotic manipulation. , 2016, , . | | 4 |
| 50 | Design of Anthropomorphic Fingers With Biomimetic Actuation Mechanism. IEEE Robotics and Automation Letters, 2019, 4, 3465-3472. | 5.1 | 4 |
| 51 | Configuration Space Decomposition for Learning-based Collision Checking in High-DOF Robots. , 2020, , . | | 4 |
| 52 | Learn to Predict How Humans Manipulate Large-Sized Objects From Interactive Motions. IEEE Robotics and Automation Letters, 2022, 7, 4702-4709. | 5.1 | 4 |
| 53 | Failure Handling of Robotic Pick and Place Tasks With Multimodal Cues Under Partial Object Occlusion. Frontiers in Neurorobotics, 2021, 15, 570507. | 2.8 | 3 |
| 54 | AUV Motion Planning in Uncertain Flow Fields Using Bayes Adaptive MDPs. IEEE Robotics and Automation Letters, 2022, 7, 5575-5582. | 5.1 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | A General Robotic Framework for Automated Cloth Assembly. , 2019, , . | | 2 |
| 56 | Efficient SE(3) Reachability Map Generation via Interplanar Integration of Intra-planar Convolutions. , 2021, , . | | 2 |
| 57 | Unified GPU-Parallelizable Robot Forward Dynamics Computation Using Band Sparsity. IEEE Robotics and Automation Letters, 2018, 3, 203-209. | 5.1 | 1 |
| 58 | Coorp: Satisfying Low-Latency and High-Throughput Requirements of Wireless Network for Coordinated Robotic Learning. IEEE Internet of Things Journal, 2023, 10, 1946-1960. | 8.7 | 0 |