Sachin Patil

List of Publications by Year in descending order

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Version: 2024-02-01

840776 1199594 1,702 25 11 12 h-index citations g-index papers 25 25 25 1513 docs citations all docs times ranked citing authors

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Motion planning with sequential convex optimization and convex collision checking. International Journal of Robotics Research, 2014, 33, 1251-1270. | 8.5 | 532 |
| 2 | Motion planning under uncertainty using iterative local optimization in belief space. International Journal of Robotics Research, 2012, 31, 1263-1278. | 8.5 | 215 |
| 3 | Learning by observation for surgical subtasks: Multilateral cutting of 3D viscoelastic and 2D Orthotropic Tissue Phantoms. , 2015, , . | | 121 |
| 4 | Needle Steering in 3-D Via Rapid Replanning. IEEE Transactions on Robotics, 2014, 30, 853-864. | 10.3 | 115 |
| 5 | Needle path planning and steering in a three-dimensional non-static environment using two-dimensional ultrasound images. International Journal of Robotics Research, 2014, 33, 1361-1374. | 8.5 | 107 |
| 6 | Interactive motion planning for steerable needles in 3D environments with obstacles., 2010,, 893-899. | | 76 |
| 7 | Experimental evaluation of ultrasound-guided 3D needle steering in biological tissue. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 931-939. | 2.8 | 58 |
| 8 | Transition state clustering: Unsupervised surgical trajectory segmentation for robot learning. International Journal of Robotics Research, 2017, 36, 1595-1618. | 8.5 | 58 |
| 9 | High-Frequency Replanning Under Uncertainty Using Parallel Sampling-Based Motion Planning. IEEE Transactions on Robotics, 2015, 31, 104-116. | 10.3 | 54 |
| 10 | Scaling up Gaussian Belief Space Planning Through Covariance-Free Trajectory Optimization and Automatic Differentiation. Springer Tracts in Advanced Robotics, 2015, , 515-533. | 0.4 | 41 |
| 11 | Ultrasound-guided three-dimensional needle steering in biological tissue with curved surfaces. Medical Engineering and Physics, 2015, 37, 145-150. | 1.7 | 40 |
| 12 | Toward asymptotically optimal motion planning for kinodynamic systems using a two-point boundary value problem solver. , $2015, \ldots$ | | 39 |
| 13 | Physics-based trajectory optimization for grasping in cluttered environments. , 2015, , . | | 36 |
| 14 | LQG-Based Planning, Sensing, and Control of Steerable Needles. Springer Tracts in Advanced Robotics, 2010, , 373-389. | 0.4 | 35 |
| 15 | Sigma hulls for Gaussian belief space planning for imprecise articulated robots amid obstacles. , 2013, , . | | 29 |
| 16 | Motion Planning Under Uncertainty In Highly Deformable Environments. , 2011, , . | | 28 |
| 17 | Multi-armed bandit models for 2D grasp planning with uncertainty. , 2015, , . | | 20 |
| 18 | Needle steering in biological tissue using ultrasound-based online curvature estimation. , 2014, 2014, 4368-4373. | | 17 |

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| # | Article | IF | CITATION |
|----|---|-----|----------|
| 19 | A paced shared-control teleoperated architecture for supervised automation of multilateral surgical tasks. , 2015, , . | | 17 |
| 20 | Model-based reinforcement learning with parametrized physical models and optimism-driven exploration. , 2016, , . | | 17 |
| 21 | 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 |
| 22 | Planning locally optimal, curvature-constrained trajectories in 3D using sequential convex optimization. , 2014, , . | | 14 |
| 23 | An algorithm for computing customized 3D printed implants with curvature constrained channels for enhancing intracavitary brachytherapy radiation delivery. , 2013, , . | | 12 |
| 24 | Occlusion-aware multi-robot 3D tracking. , 2016, , . | | 4 |
| 25 | Planning Curvature and Torsion Constrained Ribbons in 3D with Application toÂlntracavitary Brachytherapy. Springer Tracts in Advanced Robotics, 2015, , 535-552. | 0.4 | 2 |