

Zoltán-Csaba Márton

List of Publications by Year in descending order

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39
papers

2,550
citations

1163117

8
h-index

888059

17
g-index

39
all docs

39
docs citations

39
times ranked

2412
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Searching for Objects in Human Living Environments based on Relevant Inferred and Mined Priors. , 2021, , . | | 1 |
| 2 | Augmented Autoencoders: Implicit 3D Orientation Learning for 6D Object Detection. International Journal of Computer Vision, 2020, 128, 714-729. | 15.6 | 79 |
| 3 | 6DoF Pose Estimation for Industrial Manipulation Based on Synthetic Data. Springer Proceedings in Advanced Robotics, 2020, , 675-684. | 1.3 | 2 |
| 4 | Visual Repetition Sampling for Robot Manipulation Planning. , 2019, , . | | 5 |
| 5 | Towards Autonomous Planetary Exploration. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 93, 461-494. | 3.4 | 44 |
| 6 | Improving object orientation estimates by considering multiple viewpoints. Autonomous Robots, 2018, 42, 423-442. | 4.8 | 4 |
| 7 | Material Classification through Knocking and Grasping by Learning of Structure-Borne Sound under Changing Acoustic Conditions. , 2018, , . | | 6 |
| 8 | Semantic Labeling of Indoor Environments from 3D RGB Maps. , 2018, , . | | 16 |
| 9 | Implicit 3D Orientation Learning for 6D Object Detection from RGB Images. Lecture Notes in Computer Science, 2018, , 712-729. | 1.3 | 237 |
| 10 | Robot-to-Camera Calibration: A Generic Approach Using 6D Detections. , 2017, , . | | 6 |
| 11 | Storing and retrieving perceptual episodic memories for long-term manipulation tasks. , 2017, , . | | 9 |
| 12 | Experience-based optimization of robotic perception. , 2017, , . | | 5 |
| 13 | A method for hand-eye and camera-to-camera calibration for limited fields of view. , 2017, , . | | 1 |
| 14 | On the Use of the Tree Structure of Depth Levels for Comparing 3D Object Views. Lecture Notes in Computer Science, 2017, , 251-263. | 1.3 | 2 |
| 15 | Monte Carlo Registration and Its Application with Autonomous Robots. Journal of Sensors, 2016, 2016, 1-28. | 1.1 | 4 |
| 16 | The LRU Rover for Autonomous Planetary Exploration and Its Success in the SpaceBotCamp Challenge. , 2016, , . | | 13 |
| 17 | Evaluation and improvement of global pose estimation with multiple AprilTags for industrial manipulators. , 2016, , . | | 12 |
| 18 | On-the-fly particle filter registration for laser data. , 2016, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Multi-view orientation estimation using Bingham mixture models. , 2016, , . | | 8 |
| 20 | Improving object classification robustness in RGB-D using adaptive SVMs. Multimedia Tools and Applications, 2016, 75, 6829-6847. | 3.9 | 4 |
| 21 | Automatic scene parsing for generic object descriptions using shape primitives. Robotics and Autonomous Systems, 2016, 76, 93-112. | 5.1 | 7 |
| 22 | Interactive Segmentation of Textured and Textureless Objects. Studies in Systems, Decision and Control, 2015, , 237-262. | 1.0 | 2 |
| 23 | Evaluation of feature selection and model training strategies for object category recognition. , 2014, , . | | 5 |
| 24 | Part-Based Geometric Categorization and Object Reconstruction in Cluttered Table-Top Scenes. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 76, 35-56. | 3.4 | 8 |
| 25 | Tracking-based interactive segmentation of textureless objects. , 2013, , . | | 20 |
| 26 | Ensembles of strong learners for multi-cue classification. Pattern Recognition Letters, 2013, 34, 754-761. | 4.2 | 9 |
| 27 | Feature based particle filter registration of 3D surface models and its application in robotics. , 2013, , . | | 5 |
| 28 | Sample consensus fitting of bivariate polynomials for initializing EM-based modeling of smooth 3D surfaces. , 2013, , . | | 2 |
| 29 | Combining object modeling and recognition for active scene exploration. , 2013, , . | | 30 |
| 30 | Tutorial: Point Cloud Library: Three-Dimensional Object Recognition and 6 DOF Pose Estimation. IEEE Robotics and Automation Magazine, 2012, 19, 80-91. | 2.0 | 271 |
| 31 | Object Categorization in Clutter Using Additive Features and Hashing of Part-Graph Descriptors. Lecture Notes in Computer Science, 2012, , 17-33. | 1.3 | 6 |
| 32 | Furniture Models Learned from the WWW. IEEE Robotics and Automation Magazine, 2011, 18, 22-32. | 2.0 | 25 |
| 33 | Combined 2D→3D categorization and classification for multimodal perception systems. International Journal of Robotics Research, 2011, 30, 1378-1402. | 8.5 | 83 |
| 34 | Autonomous semantic mapping for robots performing everyday manipulation tasks in kitchen environments. , 2011, , . | | 44 |
| 35 | Hierarchical object geometric categorization and appearance classification for mobile manipulation. , 2010, , . | | 45 |
| 36 | Probabilistic categorization of kitchen objects in table settings with a composite sensor. , 2009, , . | | 33 |

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|----|--|-----|-----------|
| 37 | Close-range scene segmentation and reconstruction of 3D point cloud maps for mobile manipulation in domestic environments. , 2009, , . | | 126 |
| 38 | Towards 3D Point cloud based object maps for household environments. Robotics and Autonomous Systems, 2008, 56, 927-941. | 5.1 | 788 |
| 39 | Aligning point cloud views using persistent feature histograms. , 2008, , . | | 582 |