

Hakan Temeltas

List of Publications by Year in descending order

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85
papers

479
citations

933410

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888047

17
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88
all docs

88
docs citations

88
times ranked

457
citing authors

#	ARTICLE	IF	CITATIONS
1	Attitude control of a quadrotor. , 2009, , .		67
2	3D Multi-Layered Normal Distribution Transform for Fast and Long Range Scan Matching. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 71, 85-108.	3.4	43
3	A Comparative Study of Three Inverse Kinematic Methods of Serial Industrial Robot Manipulators in the Screw Theory Framework. International Journal of Advanced Robotic Systems, 2011, 8, 64.	2.1	31
4	Self-adaptive Monte Carlo method for indoor localization of smart AGVs using LIDAR data. Robotics and Autonomous Systems, 2019, 122, 103285.	5.1	30
5	SLAM for robot navigation. IEEE Aerospace and Electronic Systems Magazine, 2008, 23, 16-19.	1.3	26
6	Fuzzy-differential evolution algorithm for planning time-optimal trajectories of a unicycle mobile robot on a predefined path. Advanced Robotics, 2004, 18, 725-748.	1.8	21
7	Behavioral task processing for cognitive robots using artificial emotions. Neurocomputing, 2009, 72, 2835-2844.	5.9	20
8	Solution of inverse kinematic problem for serial robot using quaternions. , 2009, , .		13
9	A 3D Scan Matching Method Based On Multi-Layered Normal Distribution Transform. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11602-11607.	0.4	13
10	Potential field-based navigation task for autonomous flight control of unmanned aerial vehicles. International Journal of Automation and Control, 2011, 5, 1.	0.5	13
11	A Fast and Robust Feature-Based Scan-Matching Method in 3D SLAM and the Effect of Sampling Strategies. International Journal of Advanced Robotic Systems, 2013, 10, 396.	2.1	12
12	Anticipatory Control of Momentum for Bipedal Walking on Uneven Terrain. Scientific Reports, 2020, 10, 540.	3.3	12
13	Optimal regulation of bipedal walking speed despite an unexpected bump in the road. PLoS ONE, 2018, 13, e0204205.	2.5	11
14	A Trajectory Tracking Application of Redundant Planar Robot Arm via Support Vector Machines. Lecture Notes in Computer Science, 2011, , 192-202.	1.3	10
15	Decoupled approach to integrated optimum design of structures and robust control systems. Structural and Multidisciplinary Optimization, 2008, 36, 169-191.	3.5	9
16	Support Vector Regression based inverse kinematic modeling for a 7-DOF redundant robot arm. , 2012, , .		7
17	Feature extraction of EMG signals, classification with ANN and kNN algorithms. , 2018, , .		7
18	Improving Navigation Stack of a ROS-Enabled Industrial Autonomous Mobile Robot (AMR) to be Incorporated in a Large-Scale Automotive Production. International Journal of Advanced Manufacturing Technology, 2022, 120, 3647-3668.	3.0	7

#	ARTICLE	IF	CITATIONS
19	A fast and robust scan matching algorithm based on ML-NDT and feature extraction. , 2011, , .		6
20	Performance Analysis of Numerical Integration Methods in the Trajectory Tracking Application of Redundant Robot Manipulators. International Journal of Advanced Robotic Systems, 2011, 8, 63.	2.1	6
21	Intelligent systems based solutions for the kinematics problem of the industrial robot arms. , 2013, , .		6
22	Generalized bias compensated pseudolinear Kalman filter for colored noisy bearings-only measurements. Signal Processing, 2022, 190, 108331.	3.7	6
23	EÅ zamanlÄ± konum belirleme ve haritalama probleminde yeni bir durum tahmin yÅntemi olarak parÅacÄ±k akÅ filtresi. Journal of the Faculty of Engineering and Architecture of Gazi University, 2017, 32, 1255-1270.	0.8	6
24	A precise scan matching based localization method for an autonomously guided vehicle in smart factories. Robotics and Computer-Integrated Manufacturing, 2022, 75, 102302.	9.9	6
25	Maneuvering Strategies for Four-Wheel Drive, Four-Wheel Steer Mobile Robots Using Curvatures Based on Weingarten-Maps. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	5
26	Dynamical Modeling of Cooperating Underactuated Manipulators for Space Manipulation. Advanced Robotics, 2010, 24, 325-341.	1.8	5
27	Using Linde Buzo Gray Clustering Neural Networks for Solving the Motion Equations of a Mobile Robot. Arabian Journal for Science and Engineering, 2011, 36, 795-807.	1.1	5
28	Exact flow of particles using for state estimations in unmanned aerial systems` navigation. PLoS ONE, 2020, 15, e0231412.	2.5	5
29	Multi-Robot Energy-Efficient Coverage Control with Hopfield Networks. Studies in Informatics and Control, 2020, 29, 179-188.	1.2	5
30	A new approach to map building by sensor data fusion: sequential principal component-SPC method. International Journal of Advanced Manufacturing Technology, 2007, 34, 168-178.	3.0	4
31	On the consistency analysis of A-SLAM for UAV navigation. , 2014, , .		4
32	Patterns of approximated localised moments for visual loop closure detection. IET Computer Vision, 2017, 11, 237-245.	2.0	4
33	Evaluation of 3D LiDAR Sensor Setup for Heterogeneous Robot Team. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 100, 689-709.	3.4	4
34	Integration of affine ICP into the precise localization problem of smart-AGVs: Procedures, enhancements and challenges. Transactions of the Institute of Measurement and Control, 2021, 43, 1695-1709.	1.7	4
35	A 3D LiDAR Dataset of ITU Heterogeneous Robot Team. , 2019, , .		4
36	Plane-feature based 3D outdoor SLAM with Gaussian filters. , 2012, , .		3

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37	An exact dynamic model for the Thomas-K biped robot: New simulator design. , 2014, , .		3
38	Whole body motion control of humanoid robots using bilateral control. Turkish Journal of Electrical Engineering and Computer Sciences, 2017, 25, 1495-1507.	1.4	3
39	Workspace Allocation for Team of Robots with Different Actuation Capabilities. , 2018, , .		3
40	Multi-Robot Workspace Allocation with Hopfield Networks and Imprecise Localization. Acta Polytechnica Hungarica, 2020, 17, 169-188.	2.9	3
41	Mechanical and Electrical Design of a Four-Wheel-Drive, Four-Wheel-Steer Mobile Manipulator with PA-10 Arm. , 2007, , .		2
42	Performance analysis of filter based airborne simultaneous localization and mapping methods. , 2015, , .		2
43	A quantized approach for occupancy grids for autonomous vehicles: Q-Trees. Advanced Robotics, 2018, 32, 575-589.	1.8	2
44	ROS Architecture for Indoor Localization of Smart-AGVs Based on SA-MCL Algorithm. , 2019, , .		2
45	Downsampling of a 3D LiDAR Point Cloud by a Tensor Voting Based Method. , 2019, , .		2
46	Planning Optimal Trajectories for Mobile Robots Using an Evolutionary Method with Fuzzy Components. Lecture Notes in Computer Science, 2005, , 703-712.	1.3	2
47	<title>Extremal smooth trajectory planning of a mobile robot</title>. , 2002, , .		1
48	Artificial Behavioral System By Sensor-Motor Mapping Strategy For Multi-Objective Robot Tasks. , 2007, , .		1
49	Comparison of gait generation methods in Quadruped walking. , 2008, , .		1
50	A comparison study of three screw theory based kinematic solution methods for the industrial robot manipulators. , 2011, , .		1
51	An image-to-image loop-closure detection method based on unsupervised landmark extraction. , 2012, , .		1
52	Loop closure detection using local Zernike moment patterns. , 2013, , .		1
53	Adaptive coverage control with Guaranteed Power Voronoi Diagrams. , 2017, , .		1
54	Robust Affine Iterative Closest Point Variant Using Point-to-line Metric and Correntropy Criterion. , 2019, , .		1

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55	FEATURE-BASED 3D OUTDOOR SLAM WITH LOCAL FILTERS. International Journal of Robotics and Automation, 2013, 28, .	0.1	1
56	Transversal positioned (TRAP) 2D laser range finder configuration. , 2016, , .		1
57	Tensor Voting Based 3-D Point Cloud Processing for Downsampling and Registration. , 2020, , .		1
58	Guided Soft Actor Critic: A Guided Deep Reinforcement Learning Approach for Partially Observable Markov Decision Processes. IEEE Access, 2021, 9, 159672-159683.	4.2	1
59	Robust affine registration method using line/surface normals and correntropy criterion. Complex & Intelligent Systems, 2022, 8, 1-19.	6.5	1
60	Map building for mobile robots by ultrasonic and infrared sensor data fusion. , 2002, , .		0
61	INTEGRATED OPTIMIZATION OF STRUCTURES AND LQR CONTROL SYSTEMS FOR REDUCED ORDER MODELS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 389-394.	0.4	0
62	Scalable Super-Resolution Imaging. , 2006, , .		0
63	Dynamical modeling of kinematically deficient cooperating manipulators. , 2006, , .		0
64	DECENTRALIZED FORMATION CONTROL USING ARTIFICIAL POTENTIALS AND VIRTUAL LEADERS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 457-462.	0.4	0
65	EXTRACTION OF MOTION FOR 4-WHEEL DRIVE, 4-WHEEL STEER MOBILE ROBOT WITH REDUCED ORDER HAMILTONIAN MODEL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 934-939.	0.4	0
66	Artificial emotion triggered stochastic behavior transitions with motivational gain effects for multi-objective robot tasks. , 2007, , .		0
67	Enhanced formation graphs with projected distance matrices. , 2007, , .		0
68	Behavior generation strategy of artificial behavioral system by self-learning paradigm for autonomous robot tasks. Proceedings of SPIE, 2008, , .	0.8	0
69	Comparison of real-time performance of Kalman filter-based slam methods for unmanned ground vehicle (UGV) navigation. Proceedings of SPIE, 2009, , .	0.8	0
70	A singularity free trajectory tracking method for the cooperative working of multi-arm robots using screw theory. , 2011, , .		0
71	A fast and robust scan matching algorithm based on feature dependent sampling. , 2011, , .		0
72	Location dependent variable information gain approach to multi robot coverage problem. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
73	Unsupervised visual landmark extraction for place recognition. , 2012, , .		0
74	SEIF-based 6D-SLAM Using Planar Features in Large Scale and Outdoor Environments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 242-247.	0.4	0
75	Planar Features and 6D-SLAM based on Linear Regression Kalman Filters with n-Dimensional Approximated Gaussians. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10194-10199.	0.4	0
76	Sliding mode control of the simplest walking model. , 2015, , .		0
77	An online visual loop closure detection method for indoor robotic navigation. Proceedings of SPIE, 2015, , .	0.8	0
78	Efficient visual loop closure detection in different times of day. IS&T International Symposium on Electronic Imaging, 2017, 2017, 5-9.	0.4	0
79	An Improvement on SA-MCL Algorithm: Ellipse Based Energy Grids. , 2018, , .		0
80	Multi-Robot Collaborative Coverage Under Localization Uncertainty. , 2019, , .		0
81	Constructing common height maps with various entropy-based similarity metrics and utilizing layering method for heterogeneous robot teams. Industrial Robot, 2020, 47, 889-902.	2.1	0
82	A NEW PATH TRACKING METHOD FOR QUADRUPED ROBOTS: WEINGARTEN MAP. , 2010, , .		0
83	A New Motion Planning Framework based on the Quantized LQR Method for Autonomous Robots. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.7	0
84	Affine ICP for Fine Localization of Smart-AGVs in Smart Factories. , 2019, , .		0
85	Fuzzy Controlled Adaptive Follow the Gap Obstacle Avoidance Algorithm. , 2021, , .		0