

Yong Liu

List of Publications by Year in descending order

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Version: 2024-02-01

135
papers

2,721
citations

361045

20
h-index

414034

32
g-index

139
all docs

139
docs citations

139
times ranked

2269
citing authors

#	ARTICLE	IF	CITATIONS
1	Large Margin Object Tracking with Circulant Feature Maps. , 2017, , .		430
2	Extended Feature Pyramid Network for Small Object Detection. IEEE Transactions on Multimedia, 2022, 24, 1968-1979.	5.2	147
3	Learning by Analogy: Reliable Supervision From Transformations for Unsupervised Optical Flow Estimation. , 2020, , .		98
4	Robust visual SLAM with point and line features. , 2017, , .		93
5	LIC-Fusion: LiDAR-Inertial-Camera Odometry. , 2019, , .		93
6	3D Point Cloud Geometry Compression on Deep Learning. , 2019, , .		89
7	Feature Selection Based on Dependency Margin. IEEE Transactions on Cybernetics, 2015, 45, 1209-1221.	6.2	87
8	Parse geometry from a line: Monocular depth estimation with partial laser observation. , 2017, , .		73
9	Semantic Graph Based Place Recognition for 3D Point Clouds. , 2020, , .		61
10	LIC-Fusion 2.0: LiDAR-Inertial-Camera Odometry with Sliding-Window Plane-Feature Tracking. , 2020, , .		61
11	Stereo Visual-Inertial Odometry With Multiple Kalman Filters Ensemble. IEEE Transactions on Industrial Electronics, 2016, 63, 6205-6216.	5.2	58
12	Quick attribute reduct algorithm for neighborhood rough set model. Information Sciences, 2014, 271, 65-81.	4.0	54
13	Spine Explorer: a deep learning based fully automated program for efficient and reliable quantifications of the vertebrae and discs on sagittal lumbar spine MR images. Spine Journal, 2020, 20, 590-599.	0.6	53
14	FReeNet: Multi-Identity Face Reenactment. , 2020, , .		52
15	Performance evaluation of feature detection and matching in stereo visual odometry. Neurocomputing, 2013, 120, 380-390.	3.5	45
16	Accurate and Real-Time 3-D Tracking for the Following Robots by Fusing Vision and Ultrasonar Information. IEEE/ASME Transactions on Mechatronics, 2018, 23, 997-1006.	3.7	41
17	Targetless Calibration of LiDAR-IMU System Based on Continuous-time Batch Estimation. , 2020, , .		40
18	Graph Regularized Auto-Encoders for Image Representation. IEEE Transactions on Image Processing, 2017, 26, 2839-2852.	6.0	37

#	ARTICLE	IF	CITATIONS
19	Unsupervised Learning of Scene Flow Estimation Fusing with Local Rigidity. , 2019, , .		37
20	Tightly-Coupled Aided Inertial Navigation with Point and Plane Features. , 2019, , .		35
21	Visual-Inertial Localization With Prior LiDAR Map Constraints. IEEE Robotics and Automation Letters, 2019, 4, 3394-3401.	3.3	32
22	Face-to-Parameter Translation for Game Character Auto-Creation. , 2019, , .		32
23	ObjectFusion: An object detection and segmentation framework with RGB-D SLAM and convolutional neural networks. Neurocomputing, 2019, 345, 3-14.	3.5	31
24	The Smart Architect: Scalable Ontology-Based Modeling of Ancient Chinese Architectures. IEEE Intelligent Systems, 2008, 23, 49-56.	4.0	30
25	Semantic modeling for ancient architecture of digital heritage. Computers and Graphics, 2006, 30, 800-814.	1.4	29
26	MASD: A Multimodal Assembly Skill Decoding System for Robot Programming by Demonstration. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1722-1734.	3.4	29
27	Audio2Face: Generating Speech/Face Animation from Single Audio with Attention-Based Bidirectional LSTM Networks. , 2019, , .		25
28	The application of Shuffled Frog Leaping Algorithm to Wavelet Neural Networks for acoustic emission source location. Comptes Rendus - Mecanique, 2014, 342, 229-233.	2.1	23
29	Understand scene categories by objects: A semantic regularized scene classifier using Convolutional Neural Networks. , 2016, , .		23
30	Place Classification With a Graph Regularized Deep Neural Network. IEEE Transactions on Cognitive and Developmental Systems, 2017, 9, 304-315.	2.6	23
31	Perception of Demonstration for Automatic Programing of Robotic Assembly: Framework, Algorithm, and Validation. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1059-1070.	3.7	23
32	Pose Estimation for Ground Robots: On Manifold Representation, Integration, Reparameterization, and Optimization. IEEE Transactions on Robotics, 2021, 37, 1081-1099.	7.3	22
33	RINet: Efficient 3D Lidar-Based Place Recognition Using Rotation Invariant Neural Network. IEEE Robotics and Automation Letters, 2022, 7, 4321-4328.	3.3	22
34	Pruning by Training: A Novel Deep Neural Network Compression Framework for Image Processing. IEEE Signal Processing Letters, 2021, 28, 344-348.	2.1	21
35	Virtual Network Marathon with immersion, scientificalness, competitiveness, adaptability and learning. Computers and Graphics, 2012, 36, 185-192.	1.4	20
36	Learning Steering Kernels for Guided Depth Completion. IEEE Transactions on Image Processing, 2021, 30, 2850-2861.	6.0	20

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37	Mapless Collaborative Navigation for a Multi-Robot System Based on the Deep Reinforcement Learning. Applied Sciences (Switzerland), 2019, 9, 4198.	1.3	19
38	Quick attribute reduction with generalized indiscernibility models. Information Sciences, 2017, 397-398, 15-36.	4.0	18
39	Learning-Based Hand Motion Capture and Understanding in Assembly Process. IEEE Transactions on Industrial Electronics, 2019, 66, 9703-9712.	5.2	18
40	Animations, Games, and Virtual Reality for the Jing-Hang Grand Canal. IEEE Computer Graphics and Applications, 2010, 30, 84-88.	1.0	17
41	Context aware decision support in neurosurgical oncology based on an efficient classification of endomicroscopic data. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1187-1199.	1.7	17
42	Self-play reinforcement learning with comprehensive critic in computer games. Neurocomputing, 2021, 449, 207-213.	3.5	17
43	Improving procedural modeling with semantics in digital architectural heritage. Computers and Graphics, 2012, 36, 178-184.	1.4	16
44	General subspace constrained non-negative matrix factorization for data representation. Neurocomputing, 2016, 173, 224-232.	3.5	16
45	Active Learning-Based Grasp for Accurate Industrial Manipulation. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1610-1618.	3.4	16
46	A Learning Framework for n -Bit Quantized Neural Networks Toward FPGAs. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1067-1081.	7.2	16
47	Multiattribute decision making based on the binary connection number in set pair analysis under an interval-valued intuitionistic fuzzy set environment. Soft Computing, 2020, 24, 7801-7809.	2.1	15
48	Extreme learning machine with hybrid cost function of G-mean and probability for imbalance learning. International Journal of Machine Learning and Cybernetics, 2020, 11, 2007-2020.	2.3	15
49	Multimodal localization: Stereo over LiDAR map. Journal of Field Robotics, 2020, 37, 1003-1026.	3.2	15
50	Separated Sonar Localization System for Indoor Robot Navigation. IEEE Transactions on Industrial Electronics, 2021, 68, 6042-6052.	5.2	15
51	Real-time 3D human tracking for mobile robots with multisensors. , 2017, , .		14
52	Efficient Motion Planning Based on Kinodynamic Model for Quadruped Robots Following Persons in Confined Spaces. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1997-2006.	3.7	14
53	Modeling Complex Architectures Based on Granular Computing on Ontology. IEEE Transactions on Fuzzy Systems, 2010, 18, 585-598.	6.5	13
54	Unifying Rough Set Theories via Large Scaled Granular Computing. Fundamenta Informaticae, 2013, 127, 413-428.	0.3	13

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55	Filtering Based Adaptive Visual Odometry Sensor Framework Robust to Blurred Images. Sensors, 2016, 16, 1040.	2.1	13
56	DTVNet: Dynamic Time-Lapse Video Generation via Single Still Image. Lecture Notes in Computer Science, 2020, , 300-315.	1.0	13
57	Robust and Accurate Multiple-Camera Pose Estimation toward Robotic Applications. International Journal of Advanced Robotic Systems, 2014, 11, 153.	1.3	12
58	A Robust Stereo Feature-aided Semi-direct SLAM System. Robotics and Autonomous Systems, 2020, 132, 103597.	3.0	12
59	F-Siamese Tracker: A Frustum-based Double Siamese Network for 3D Single Object Tracking. , 2020, , .		11
60	LOIND: An illumination and scale invariant RGB-D descriptor. , 2015, , .		10
61	PASS3D: Precise and Accelerated Semantic Segmentation for 3D Point Cloud. , 2019, , .		10
62	Multiple-Timescale Feature Learning Strategy for Valve Stiction Detection Based on Convolutional Neural Network. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1478-1488.	3.7	10
63	Ensemble Bootstrapped Deep Deterministic Policy Gradient for Vision-Based Robotic Grasping. IEEE Access, 2021, 9, 19916-19925.	2.6	10
64	Complex Network Based SMS Filtering Algorithm. Zidonghua Xuebao/Acta Automatica Sinica, 2009, 35, 990-996.	0.3	10
65	Ontology design with a granular approach. Expert Systems With Applications, 2014, 41, 4867-4877.	4.4	9
66	PoseConvGRU: A Monocular Approach for Visual Ego-motion Estimation by Learning. Pattern Recognition, 2020, 102, 107187.	5.1	9
67	A compression pipeline for one-stage object detection model. Journal of Real-Time Image Processing, 2021, 18, 1949-1962.	2.2	9
68	A Parallel Approximate Rule Extracting Algorithm Based on the Improved Discernibility Matrix. Lecture Notes in Computer Science, 2004, , 498-503.	1.0	8
69	Feature Reduction with Inconsistency. International Journal of Cognitive Informatics and Natural Intelligence, 2010, 4, 77-87.	0.4	8
70	The framework and implementation of Virtual Network Marathon. , 2011, , .		8
71	Multiclass AdaBoost ELM and Its Application in LBP Based Face Recognition. Mathematical Problems in Engineering, 2015, 2015, 1-9.	0.6	8
72	Cross-modality online distillation for multi-view action recognition. Neurocomputing, 2021, 456, 384-393.	3.5	8

#	ARTICLE	IF	CITATIONS
73	RISAS: A novel rotation, illumination, scale invariant appearance and shape feature. , 2017, , .		7
74	Accurate real-time ball trajectory estimation with onboard stereo camera system for humanoid ping-pong robot. Robotics and Autonomous Systems, 2018, 101, 34-44.	3.0	7
75	Notice of Removal: Optimal Weighted Extreme Learning Machine for Imbalanced Learning with Differential Evolution [Research Frontier]. IEEE Computational Intelligence Magazine, 2018, 13, 32-47.	3.4	7
76	Learning Communication for Cooperation in Dynamic Agent-Number Environment. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1846-1857.	3.7	7
77	Deep Graph Gaussian Processes for Short-Term Traffic Flow Forecasting From Spatiotemporal Data. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20177-20186.	4.7	7
78	Multilevel Spatial-Temporal Feature Aggregation for Video Object Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 7809-7820.	5.6	7
79	Constructing the virtual Jing-Hang Grand Canal with onto-draw. Expert Systems With Applications, 2012, 39, 12071-12084.	4.4	6
80	Scalable Learning Framework for Traversable Region Detection Fusing With Appearance and Geometrical Information. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3267-3281.	4.7	6
81	Deep Superpixel Convolutional Network for Image Recognition. IEEE Signal Processing Letters, 2021, 28, 922-926.	2.1	6
82	Adding Before Pruning: Sparse Filter Fusion for Deep Convolutional Neural Networks via Auxiliary Attention. IEEE Transactions on Neural Networks and Learning Systems, 2024, PP, 1-13.	7.2	5
83	Learning to Compensate for the Drift and Error of Gyroscope in Vehicle Localization. , 2020, , .		5
84	Semantic scan context: a novel semantic-based loop-closure method for LiDAR SLAM. Autonomous Robots, 2022, 46, 535-551.	3.2	5
85	A new approach for representing and processing uncertainty knowledge. , 0, , .		4
86	A new approach for data fusion: implement rough set theory in dynamic objects distinguishing and tracing. , 0, , .		4
87	A humanoid robot for table tennis playing. , 2011, , .		4
88	Real-time accurate ball trajectory estimation with asynchronous stereo camera system for humanoid Ping-Pong robot. , 2014, , .		4
89	Probabilistic graph based spatial assembly relation inference for programming of assembly task by demonstration. , 2015, , .		4
90	Real-Time LiDAR Data Association Aided by IMU in High Dynamic Environment. , 2018, , .		4

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91	Generalize Robot Learning From Demonstration to Variant Scenarios With Evolutionary Policy Gradient. <i>Frontiers in Neurorobotics</i> , 2020, 14, 21.	1.6	4
92	Real-Time Audio-Guided Multi-Face Reenactment. <i>IEEE Signal Processing Letters</i> , 2022, 29, 1-5.	2.1	4
93	Quick Distribution Reduction Algorithm in Inconsistent Information System. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , 2012, 38, 382-388.	0.3	4
94	Fast modeling of vernacular houses of southeast China. , 2004, 5444, 14.		3
95	Traversable region detection with a learning framework. , 2015, , .		3
96	Development and control of a robotic arm for percutaneous surgery. <i>Assembly Automation</i> , 2017, 37, 314-321.	1.0	3
97	A Robust Stereo Semi-direct SLAM System Based on Hybrid Pyramid. , 2019, , .		3
98	Robust and Efficient Vehicles Motion Estimation with Low-Cost Multi-Camera and Odometer-Gyroscope. , 2019, , .		3
99	Collision-free Trajectory Planning for Autonomous Surface Vehicle. , 2020, , .		3
100	Simultaneous Intrinsic and Extrinsic Calibration of a Visual-Odometric Sensor System. <i>IEEE Sensors Journal</i> , 2021, 21, 6856-6868.	2.4	3
101	Learning hierarchical and efficient Person re-identification for robotic navigation. <i>International Journal of Intelligent Robotics and Applications</i> , 2021, 5, 104-118.	1.6	3
102	Wind measurement by computer vision on unmanned sailboat. <i>International Journal of Intelligent Robotics and Applications</i> , 2021, 5, 252-263.	1.6	3
103	Unpaired salient object translation via spatial attention prior. <i>Neurocomputing</i> , 2021, 453, 718-730.	3.5	3
104	Editorial: Recent advances in intelligent robotic systems. <i>CAAI Transactions on Intelligence Technology</i> , 2017, 2, 141-141.	3.4	3
105	Table Representations of Granulations Revisited. <i>Lecture Notes in Computer Science</i> , 2005, , 728-737.	1.0	3
106	A dynamic incremental rule extracting algorithm based on the improved discernibility matrix. , 0, , .		2
107	An incremental rule extracting algorithm based on pawlak reduction. , 0, , .		2
108	HumRoboSim: An Autonomous Humanoid Robot Simulation System. , 2008, , .		2

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109	Robust object tracking with a hierarchical ensemble framework. , 2016, , .		2
110	Propagating Asymptotic-Estimated Gradients for Low Bitwidth Quantized Neural Networks. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 848-859.	7.3	2
111	A Finite State Mobile Agent Computation Model. Lecture Notes in Computer Science, 2004, , 152-157.	1.0	2
112	Vertex Mesh Simplification Algorithm Based on Curvature and Distance Metric. Lecture Notes in Computer Science, 2016, , 152-160.	1.0	2
113	DA ² Dataset: Toward Dexterity-Aware Dual-Arm Grasping. IEEE Robotics and Automation Letters, 2022, 7, 8941-8948.	3.3	2
114	An Estimation Distribution Algorithm of Optimum Path Planning for Mobile Robots. , 2008, , .		1
115	Method and Applications for Multiple Attribute Decision-Making Based on Converting Triangular Fuzzy Numbers into Connection Numbers. Lecture Notes in Computer Science, 2017, , 281-292.	1.0	1
116	Active Planning of Robot Navigation for 3D Scene Exploration. , 2018, , .		1
117	Efficient Data Representation Combining with ELM and GNMF. Adaptation, Learning, and Optimization, 2014, , 13-23.	0.5	1
118	<title>Three-dimensional dynamic GIS model for landscape planning</title>. , 2003, , .		1
119	An Agent-Enabled Content-Explicit Authorization Model for OGSA-Compliant Grid. Lecture Notes in Computer Science, 2004, , 12-17.	1.0	1
120	Multi-Robot Learning Dynamic Obstacle Avoidance in Formation With Information-Directed Exploration. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, , 1-11.	3.4	1
121	A Virtual Organization Based Mobile Agent Computation Model. Lecture Notes in Computer Science, 2004, , 677-682.	1.0	0
122	Improved rule based rough set approach for target recognition. , 2005, , .		0
123	On Identity-Discrepancy-Contrary Connection Degree in SPA and Its Applications. Lecture Notes in Computer Science, 2005, , 195-198.	1.0	0
124	A Multi-sensor Data Fusion Method Based on the Set-Pair Identity Degree and Connection Number. , 2011, , .		0
125	Multi-Robot Remote Interaction with FS-MAS. International Journal of Advanced Robotic Systems, 2013, 10, 141.	1.3	0
126	Performance analysis of a mobile agent prototype system based on VIRGO P2P protocols. Concurrency Computation Practice and Experience, 2014, 26, 447-467.	1.4	0

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127	Robot Simulation and Reinforcement Learning Training Platform Based on Distributed Architecture. Communications in Computer and Information Science, 2019, , 542-553.	0.4	0
128	A Supplier Group Recognition Framework Based on Multi-source Data Fusion. , 2019, , .		0
129	Model-Based Robot Learning Control with Uncertainty Directed Exploration. , 2020, , .		0
130	Semisupervised Game Player Categorization From Very Big Behavior Log Data. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3419-3430.	5.9	0
131	A Detector and Evaluation Framework of Abnormal Bidding Behavior Based on Supplier Portrait. International Journal of Information Technology and Web Engineering, 2021, 16, 58-74.	1.2	0
132	A Scalable and Reliable Mobile Agent Computation Model. Lecture Notes in Computer Science, 2004, , 346-352.	1.0	0
133	A Predictable Mobile Agent Computation Model and Its Fabric Architecture. Lecture Notes in Computer Science, 2004, , 18-26.	1.0	0
134	Detecting Aging Substation Transformers by Audio Signal with Deep Neural Network. Lecture Notes in Computer Science, 2020, , 70-82.	1.0	0
135	Tracking an Object over 200 FPS with the Fusion of Prior Probability and Kalman Filter. , 2020, , .		0