

Chen Feng

List of Publications by Year in descending order

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58
papers

2,746
citations

567281
15
h-index

752698
20
g-index

58
all docs

58
docs citations

58
times ranked

2088
citing authors

#	ARTICLE	IF	CITATIONS
1	FoldingNet: Point Cloud Auto-Encoder via Deep Grid Deformation. , 2018, , .		603
2	Mining Point Cloud Local Structures by Kernel Correlation and Graph Pooling. , 2018, , .		305
3	Geometric distortion metrics for point cloud compression. , 2017, , .		213
4	CASENet: Deep Category-Aware Semantic Edge Detection. , 2017, , .		204
5	Point-plane SLAM for hand-held 3D sensors. , 2013, , .		163
6	Fast plane extraction in organized point clouds using agglomerative hierarchical clustering. , 2014, , .		144
7	Fast Resampling of Three-Dimensional Point Clouds via Graphs. IEEE Transactions on Signal Processing, 2018, 66, 666-681.	5.3	104
8	3D Point Cloud Processing and Learning for Autonomous Driving: Impacting Map Creation, Localization, and Perception. IEEE Signal Processing Magazine, 2021, 38, 68-86.	5.6	101
9	Vision guided autonomous robotic assembly and as-built scanning on unstructured construction sites. Automation in Construction, 2015, 59, 128-138.	9.8	97
10	Deep Active Learning for Civil Infrastructure Defect Detection and Classification. , 2017, , .		77
11	LUVLi Face Alignment: Estimating Landmarks's Location, Uncertainty, and Visibility Likelihood. , 2020, , .		76
12	An Occupancy Grid Mapping enhanced visual SLAM for real-time locating applications in indoor GPS-denied environments. Automation in Construction, 2019, 104, 230-245.	9.8	59
13	Simultaneous Edge Alignment and Learning. Lecture Notes in Computer Science, 2018, , 400-417.	1.3	47
14	Siamese Anchor Proposal Network for High-Speed Aerial Tracking. , 2021, , .		44
15	Sensitivity analysis of augmented reality-assisted building damage reconnaissance using virtual prototyping. Automation in Construction, 2013, 33, 24-36.	9.8	39
16	DeepMapping: Unsupervised Map Estimation From Multiple Point Clouds. , 2019, , .		38
17	Deep Unsupervised Learning of 3D Point Clouds via Graph Topology Inference and Filtering. IEEE Transactions on Image Processing, 2020, 29, 3183-3198.	9.8	36
18	Camera marker networks for articulated machine pose estimation. Automation in Construction, 2018, 96, 148-160.	9.8	31

#	ARTICLE	IF	CITATIONS
19	VLASE: Vehicle Localization by Aggregating Semantic Edges. , 2018, , .		29
20	Conceptual Framework to Optimize Building Energy Consumption by Coupling Distributed Energy Simulation and Occupancy Models. Journal of Computing in Civil Engineering, 2014, 28, 50-62.	4.7	28
21	Onboard Real-Time Aerial Tracking With Efficient Siamese Anchor Proposal Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	28
22	Plane Registration Leveraged by Global Constraints for Context-Aware AEC Applications. Computer-Aided Civil and Infrastructure Engineering, 2013, 28, 325-343.	9.8	25
23	Dynamic Origin-Destination Matrix Prediction with Line Graph Neural Networks and Kalman Filter. Transportation Research Record, 2020, 2674, 491-503.	1.9	24
24	Real-Time Soft Body 3D Proprioception via Deep Vision-Based Sensing. IEEE Robotics and Automation Letters, 2020, 5, 3382-3389.	5.1	23
25	FasTFit: A fast T-spline fitting algorithm. CAD Computer Aided Design, 2017, 92, 11-21.	2.7	20
26	A scene-adaptive descriptor for visual SLAM-based locating applications in built environments. Automation in Construction, 2020, 112, 103067.	9.8	19
27	SLAM using both points and planes for hand-held 3D sensors. , 2012, , .		16
28	Contour-enhanced resampling of 3D point clouds via graphs. , 2017, , .		14
29	Mobile projective augmented reality for collaborative robots in construction. Automation in Construction, 2021, 127, 103704.	9.8	14
30	Towards Autonomous Robotic In-Situ Assembly on Unstructured Construction Sites Using Monocular Vision. , 2014, , .		13
31	Real-Time Occlusion Handling for Dynamic Augmented Reality Using Geometric Sensing and Graphical Shading. Journal of Computing in Civil Engineering, 2013, 27, 607-621.	4.7	12
32	Vision-Based Articulated Machine Pose Estimation for Excavation Monitoring and Guidance. , 2015, , .		12
33	User-Guided Dimensional Analysis of Indoor Building Environments from Single Frames of RGB-D Sensors. Journal of Computing in Civil Engineering, 2017, 31, .	4.7	8
34	Compression of 3-D point clouds using hierarchical patch fitting. , 2017, , .		8
35	Regularizing Neural Networks via Minimizing Hyperspherical Energy. , 2020, , .		8
36	Mask strategy and layout decomposition for self-aligned quadruple patterning. Proceedings of SPIE, 2013, , .	0.8	6

#	ARTICLE	IF	CITATIONS
37	Human-Robot Integration for Pose Estimation and Semi-Autonomous Navigation on Unstructured Construction Sites. , 2013, , .		5
38	Primitive Fitting Using Deep Geometric Segmentation. , 2019, , .		5
39	DR ² Track: Towards Real-Time Visual Tracking for UAV via Distractor Repressed Dynamic Regression. , 2020, , .		5
40	Marker-Assisted Structure from Motion for 3D Environment Modeling and Object Pose Estimation. , 2016, , .		4
41	SPARE3D: A Dataset for SPATial REasoning on Three-View Line Drawings. , 2020, , .		4
42	Direct Multichannel Tracking. , 2017, , .		3
43	An assistive low-vision platform that augments spatial cognition through proprioceptive guidance: Point-to-Tell-and-Touch. , 2019, , .		3
44	UGLLI Face Alignment: Estimating Uncertainty with Gaussian Log-Likelihood Loss. , 2019, , .		3
45	Unsupervised Joint 3D Object Model Learning and 6D Pose Estimation for Depth-Based Instance Segmentation. , 2019, , .		3
46	Real-Time Building Energy and Comfort Parameter Data Collection Using Mobile Indoor Robots. , 2015, , .		3
47	Automatic Failure Recovery and Re-Initialization for Online UAV Tracking with Joint Scale and Aspect Ratio Optimization. , 2020, , .		3
48	Occlusion Handling Method for Ubiquitous Augmented Reality Using Reality Capture Technology and GLSL. , 2011, , .		2
49	Coupling Distributed Energy Simulation and Occupancy Models for Comprehensive Building Energy Consumption Analysis. , 2013, , .		2
50	Rapid geometric modeling for visual simulation using semi-automated reconstruction from single image. Engineering With Computers, 2014, 30, 31-39.	6.1	2
51	Detecting and Grouping Identical Objects for Region Proposal and Classification. , 2017, , .		2
52	Enhancing Visual SLAM with Occupancy Grid Mapping for Real-Time Locating Applications in Indoor GPS-Denied Environments. , 2019, , .		2
53	A Low-Vision Navigation Platform for Economies in Transition Countries. , 2020, , .		2
54	Real-Time Robust 3D Plane Extraction for Wearable Robot Perception and Control. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
55	A Plane Tracker for AEC-Automation Applications. , 2012, , .		1
56	User-Guided Dimensional Analysis of Indoor Scenes Using Depth Sensors. , 2015, , .		1
57	Deep Weakly Supervised Positioning for Indoor Mobile Robots. IEEE Robotics and Automation Letters, 2022, 7, 1206-1213.	5.1	1
58	NYU-VPR: Long-Term Visual Place Recognition Benchmark with View Direction and Data Anonymization Influences. , 2021, , .		1