Chen Feng

List of Publications by Year in Descending Order

51 papers	**1,361** citations	**18** h-index	**36** g-index
58 ext. papers	**2,004** ext. citations	**6.2** avg, IF	**5.25** L-index

#	Paper	IF	Citations
51	Deep Weakly Supervised Positioning for Indoor Mobile Robots. *IEEE Robotics and Automation Letters*, **2022**, 7, 1206-1213	4.2	
50	Siamese Anchor Proposal Network for High-Speed Aerial Tracking **2021**,		11
49	Onboard Real-Time Aerial Tracking With Efficient Siamese Anchor Proposal Network. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-13	8.1	10
48	Mobile projective augmented reality for collaborative robots in construction. *Automation in Construction*, **2021**, 127, 103704	9.6	4
47	3D Point Cloud Processing and Learning for Autonomous Driving: Impacting Map Creation, Localization, and Perception. *IEEE Signal Processing Magazine*, **2021**, 38, 68-86	9.4	28
46	Dynamic Origin□Destination Matrix Prediction with Line Graph Neural Networks and Kalman Filter. *Transportation Research Record*, **2020**, 2674, 491-503	1.7	10
45	Real-Time Soft Body 3D Proprioception via Deep Vision-Based Sensing. *IEEE Robotics and Automation Letters*, **2020**, 5, 3382-3389	4.2	7
44	A scene-adaptive descriptor for visual SLAM-based locating applications in built environments. *Automation in Construction*, **2020**, 112, 103067	9.6	9
43	Automatic Failure Recovery and Re-Initialization for Online UAV Tracking with Joint Scale and Aspect Ratio Optimization **2020**,		2
42	SPARE3D: A Dataset for SPAtial REasoning on Three-View Line Drawings **2020**,		1
41	Regularizing Neural Networks via Minimizing Hyperspherical Energy **2020**,		5
40	LUVLi Face Alignment: Estimating Landmarks□Location, Uncertainty, and Visibility Likelihood **2020**,		30
39	An Occupancy Grid Mapping enhanced visual SLAM for real-time locating applications in indoor GPS-denied environments. *Automation in Construction*, **2019**, 104, 230-245	9.6	30
38	Deep Unsupervised Learning of 3D Point Clouds via Graph Topology Inference and Filtering. *IEEE Transactions on Image Processing*, **2019**,	8.7	10
37	An assistive low-vision platform that augments spatial cognition through proprioceptive guidance: Point-to-Tell-and-Touch **2019**,		2
36	UGLLI Face Alignment: Estimating Uncertainty with Gaussian Log-Likelihood Loss **2019**,		1
35	Unsupervised Joint 3D Object Model Learning and 6D Pose Estimation for Depth-Based Instance Segmentation **2019**,		1

34	**2019**,		19
33	Enhancing Visual SLAM with Occupancy Grid Mapping for Real-Time Locating Applications in Indoor GPS-Denied Environments **2019**,		1
32	. *IEEE Transactions on Signal Processing*, **2018**, 66, 666-681	4.8	58
31	Simultaneous Edge Alignment and Learning. *Lecture Notes in Computer Science*, **2018**, 400-417	0.9	25
30	FoldingNet: Point Cloud Auto-Encoder via Deep Grid Deformation **2018**,		263
29	VLASE: Vehicle Localization by Aggregating Semantic Edges **2018**,		14
28	Mining Point Cloud Local Structures by Kernel Correlation and Graph Pooling **2018**,		169
27	Real-Time Robust 3D Plane Extraction for Wearable Robot Perception and Control **2018**,		1
26	Camera marker networks for articulated machine pose estimation. *Automation in Construction*, **2018**, 96, 148-160	9.6	18
25	User-Guided Dimensional Analysis of Indoor Building Environments from Single Frames of RGB-D Sensors. *Journal of Computing in Civil Engineering*, **2017**, 31, 04017006	5	4
24	Deep Active Learning for Civil Infrastructure Defect Detection and Classification **2017**,		40
23	Direct Multichannel Tracking **2017**,		3
22	Contour-enhanced resampling of 3D point clouds via graphs **2017**,		10
21	FaSTFit: A fast T-spline fitting algorithm. *CAD Computer Aided Design*, **2017**, 92, 11-21	2.9	12
20	Detecting and Grouping Identical Objects for Region Proposal and Classification **2017**,		2
19	Compression of 3-D point clouds using hierarchical patch fitting **2017**,		7
18	CASENet: Deep Category-Aware Semantic Edge Detection **2017**,		101
17	Geometric distortion metrics for point cloud compression **2017**,		88

16	Marker-Assisted Structure from Motion for 3D Environment Modeling and Object Pose Estimation **2016**,		3
15	Vision guided autonomous robotic assembly and as-built scanning on unstructured construction sites. *Automation in Construction*, **2015**, 59, 128-138	9.6	58
14	Vision-Based Articulated Machine Pose Estimation for Excavation Monitoring and Guidance **2015**,		6
13	Fast plane extraction in organized point clouds using agglomerative hierarchical clustering **2014**,		82
12	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	5	22
11	Rapid geometric modeling for visual simulation using semi-automated reconstruction from single image. *Engineering With Computers*, **2014**, 30, 31-39	4.5	2
10	Towards Autonomous Robotic In-Situ Assembly on Unstructured Construction Sites Using Monocular Vision **2014**,		8
9	**2013**,		105
8	Plane Registration Leveraged by Global Constraints for Context-Aware AEC Applications. *Computer-Aided Civil and Infrastructure Engineering*, **2013**, 28, 325-343	8.4	19
7	Coupling Distributed Energy Simulation and Occupancy Models for Comprehensive Building Energy Consumption Analysis **2013**,		2
6	Sensitivity analysis of augmented reality-assisted building damage reconnaissance using virtual prototyping. *Automation in Construction*, **2013**, 33, 24-36	9.6	26
5	Mask strategy and layout decomposition for self-aligned quadruple patterning **2013**,		5
4	Real-Time Occlusion Handling for Dynamic Augmented Reality Using Geometric Sensing and Graphical Shading. *Journal of Computing in Civil Engineering*, **2013**, 27, 607-621	5	7
3	Human-Robot Integration for Pose Estimation and Semi-Autonomous Navigation on Unstructured Construction Sites **2013**,		2
2	**2012**,		11
1	Occlusion Handling Method for Ubiquitous Augmented Reality Using Reality Capture Technology and GLSL **2011**,		1