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Kimera: From SLAM to spatial perception with 3D dynamic scene graphs

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#	Paper	IF	Citations
32	Smooth Mesh Estimation from Depth Data using Non-Smooth Convex Optimization. 2021 ,		
31	Kimera-Multi: Robust, Distributed, Dense Metric-Semantic SLAM for Multi-Robot Systems. <i>IEEE Transactions on Robotics</i> , 2022 , 1-17	6.5	6
30	A Comprehensive Survey of Scene Graphs: Generation and Application.. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	5
29	Topological Semantic Mapping by Consolidation of Deep Visual Features. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	0
28	New Trend in Back-End Techniques of Visual SLAM: From Local Iterative Solvers to Robust Global Optimization. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 308-317	0.2	1
27	Environmental, User, and Social Context-Aware Augmented Reality for Supporting Personal Development and Change. 2022 ,		1
26	Autonomous Exploration in a Cluttered Environment for a Mobile Robot With 2D-Map Segmentation and Object Detection. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 6343-6350	4.2	1
25	Visual-SLAM Classical Framework and Key Techniques: A Review. <i>Sensors</i> , 2022 , 22, 4582	3.8	2
24	Situational Graphs for Robot Navigation in Structured Indoor Environments. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-8	4.2	1
23	Hierarchical Representations and Explicit Memory: Learning Effective Navigation Policies on 3D Scene Graphs using Graph Neural Networks. 2022 ,		4
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21	GNGraph: Self-Organizing Maps for Autonomous Aerial Vehicle Planning. 2022 , 7, 10721-10728		
20	Continuous Scene Representations for Embodied AI. 2022 ,		1
19	On Managing Knowledge for MAPE-K Loops in Self-Adaptive Robotics Using a Graph-Based Runtime Model. 2022 , 12, 8583		1
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17	A Review on Visual-SLAM: Advancements from Geometric Modelling to Learning-Based Semantic Scene Understanding Using Multi-Modal Sensor Fusion. 2022 , 22, 7265		0
16	Progress in symmetry preserving robot perception and control through geometry and learning. 9,		1

15	An Enhanced Object Detection Model for Scene Graph Generation. 2023 , 333-343	0
14	Dynamic Semantics SLAM Based on Improved Mask R-CNN. 2022 , 10, 126525-126535	0
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12	Voxfield: Non-Projective Signed Distance Fields for Online Planning and 3D Reconstruction. 2022 ,	0
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10	Fast Structural Representation and Structure-aware Loop Closing for Visual SLAM. 2022 ,	0
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6	Probabilistic Volumetric Fusion for Dense Monocular SLAM. 2023 ,	0
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1	Retrospective. 2023 , 177-184	0