Carsten Steger

List of Publications by Year
in descending order

37 papers	3,170 citations	567144 15 h-index	501076 28 g-index
40 all docs	40 docs citations	40 times ranked	2094 citing authors

#	Article	IF	Citations
1	An unbiased detector of curvilinear structures. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1998, 20, 113-125.	9.7	994
2	MVTec AD â€" A Comprehensive Real-World Dataset for Unsupervised Anomaly Detection. , 2019, , .		512
3	Uninformed Students: Student-Teacher Anomaly Detection With Discriminative Latent Embeddings. , 2020, , .		273
4	Improving Unsupervised Defect Segmentation by Applying Structural Similarity to Autoencoders. , 2019, , .		181
5	Automatic extraction of roads from aerial images based on scale space and snakes. Machine Vision and Applications, 2000, 12, 23-31.	1.7	178
6	The MVTec Anomaly Detection Dataset: A Comprehensive Real-World Dataset for Unsupervised Anomaly Detection. International Journal of Computer Vision, 2021, 129, 1038-1059.	10.9	150
7	Techniques for a structural analysis of dermatoscopic imagery. Computerized Medical Imaging and Graphics, 1998, 22, 375-389.	3.5	121
8	Combining Scale-Space and Similarity-Based Aspect Graphs for Fast 3D Object Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1902-1914.	9.7	109
9	CAD-based recognition of 3D objects in monocular images. , 2009, , .		74
10	Introducing MVTec ITODD â€" A Dataset for 3D Object Recognition in Industry. , 2017, , .		73
11	Real-time object recognition using a modified generalized Hough transform. Pattern Recognition, 2003, 36, 2557-2570.	5.1	65
12	Unbiased extraction of lines with parabolic and Gaussian profiles. Computer Vision and Image Understanding, 2013, 117, 97-112.	3.0	58
13	Similarity Measures for Occlusion, Clutter, and Illumination Invariant Object Recognition. Lecture Notes in Computer Science, 2001, , 148-154.	1.0	54
14	Scale-space events and their link to abstraction for road extraction. ISPRS Journal of Photogrammetry and Remote Sensing, 1998, 53, 62-75.	4.9	36
15	Extracting curvilinear structures: A differential geometric approach. Lecture Notes in Computer Science, 1996, , 630-641.	1.0	31
16	A Comprehensive and Versatile Camera Model for Cameras with Tilt Lenses. International Journal of Computer Vision, 2017, 123, 121-159.	10.9	30
17	Beyond Dents and Scratches: Logical Constraints in Unsupervised Anomaly Detection and Localization. International Journal of Computer Vision, 2022, 130, 947-969.	10.9	26
18	Hand-eye calibration of SCARA robots using dual quaternions. Pattern Recognition and Image Analysis, 2016, 26, 231-239.	0.6	21

#	ARTICLE	IF	CITATIONS
19	Model-Based Road Extraction from Images. , 1995, , 275-284.		20
20	The MVTec 3D-AD Dataset for Unsupervised 3D Anomaly Detection and Localization. , 2022, , .		19
21	Recognition and Tracking of 3D Objects. Lecture Notes in Computer Science, 2008, , 132-141.	1.0	18
22	Edge-Based Template Matching and Tracking for Perspectively Distorted Planar Objects. Lecture Notes in Computer Science, 2008, , 35-44.	1.0	17
23	Analysis of the network pattern in dermatoscopic images. Skin Research and Technology, 1999, 5, 42-48.	0.8	13
24	Estimating the fundamental matrix under pure translation and radial distortion. ISPRS Journal of Photogrammetry and Remote Sensing, 2012, 74, 202-217.	4.9	11
25	A Camera Model for Line-Scan Cameras with Telecentric Lenses. International Journal of Computer Vision, 2021, 129, 80-99.	10.9	9
26	Perspective planar shape matching. Proceedings of SPIE, 2009, , .	0.8	7
27	Subpixel-Precise Tracking of Rigid Objects in Real-Time. Lecture Notes in Computer Science, 2017, , 54-65.	1.0	6
28	Edge-Based Template Matching with a Harmonic Deformation Model. Communications in Computer and Information Science, 2009, , 176-187.	0.4	6
29	Accurate and robust tracking of rigid objects in real time. Journal of Real-Time Image Processing, 2021, 18, 493-510.	2.2	6
30	Algorithms for the Orthographic-n-Point Problem. Journal of Mathematical Imaging and Vision, 2018, 60, 246-266.	0.8	5
31	A camera model for cameras with hypercentric lenses and some example applications. Machine Vision and Applications, 2019, 30, 1013-1028.	1.7	4
32	A Multi-view Camera Model for Line-Scan Cameras with Telecentric Lenses. Journal of Mathematical Imaging and Vision, 0, , 1.	0.8	4
33	Machine Vision Algorithms. , 0, , 511-692.		2
34	Setup and calibration of a distributed camera system for surveillance of laboratory space. Pattern Recognition and Image Analysis, 2013, 23, 481-487.	0.6	2
35	Least-squares estimation of anisotropic similarity transformations from corresponding 2D point sets. Pattern Recognition Letters, 2012, 33, 349-355.	2.6	1
36	A Summary of the 4th International Workshop on Recovering 6D Object Pose. Lecture Notes in Computer Science, 2019, , 589-600.	1.0	1

#	Article	IF	Citations
37	Software fÃ¼r die Bildverarbeitung. Optik & Photonik, 2010, 5, 33-36.	0.3	0