Cai Meng

List of Publications by Year
in descending order

29 papers	396 citations	933447 10 h-index	794594 19 g-index
29 all docs	29 docs citations	29 times ranked	389 citing authors

#	Article	IF	Citations
1	Region Based CNN for Foreign Object Debris Detection on Airfield Pavement. Sensors, 2018, 18, 737.	3.8	47
2	Arc Adjacency Matrix-Based Fast Ellipse Detection. IEEE Transactions on Image Processing, 2020, 29, 4406-4420.	9.8	46
3	Satellite Pose Estimation via Single Perspective Circle and Line. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 3084-3095.	4.7	43
4	Multiscale dense convolutional neural network for DSA cerebrovascular segmentation. Neurocomputing, 2020, 373, 123-134.	5.9	38
5	A Review of Point Feature Based Medical Image Registration. Chinese Journal of Mechanical Engineering (English Edition), 2018, 31, .	3.7	32
6	A remoteâ€controlled vascular interventional robot: system structure and image guidance. International Journal of Medical Robotics and Computer Assisted Surgery, 2013, 9, 230-239.	2.3	31
7	Fast visionâ€based autonomous detection of moving cooperative target for unmanned aerial vehicle landing. Journal of Field Robotics, 2019, 36, 34-48.	6.0	18
8	2D-3D Registration With Weighted Local Mutual Information in Vascular Interventions. IEEE Access, 2019, 7, 162629-162638.	4.2	17
9	Deformable Cardiovascular Image Registration via Multi-Channel Convolutional Neural Network. IEEE Access, 2019, 7, 17524-17534.	4.2	16
10	New method for geometric calibration and distortion correction of conventional C-arm. Computers in Biology and Medicine, 2014, 52, 49-56.	7.0	12
11	Response Strategy to Environmental Cues for Modular Robots with Self-Assembly from Swarm to Articulated Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 81, 359-376.	3.4	11
12	Transfer Learning for Nonrigid 2D/3D Cardiovascular Images Registration. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3300-3309.	6.3	10
13	Catheter localization for vascular interventional robot with conventional single C-arm. , 2011, , .		9
14	Homography-based depth recovery with descent images. Machine Vision and Applications, 2013, 24, 1093-1106.	2.7	8
15	Finding splitting lines for touching cell nuclei with a shortest path algorithm. Computers in Biology and Medicine, 2015, 63, 277-286.	7.0	8
16	Subjective Saliency Model Driven by Multi-Cues Stimulus for Airport Detection. IEEE Access, 2019, 7, 32118-32127.	4.2	8
17	Monocular Position-Pose Measurement Based on Circular and Linear Features. , 2015, , .		7
18	Rockâ€ring detection accuracy improvement in infrared satellite image with subâ€pixel edge detection. IET Image Processing, 2019, 13, 729-735.	2.5	7

#	Article	IF	Citations
19	Visual Model Based C-Arm System Calibration and Image Correction. , 2009, , .		5
20	Statistical Classification Based Fast Drivable Region Detection for Indoor Mobile Robot. International Journal of Humanoid Robotics, 2014, 11, 1450010.	1.1	5
21	Self-Assembling for Swarm Modular Robots Using MIMO Fuzzy Control. Advances in Mechanical Engineering, 2013, 5, 598647.	1.6	5
22	Improved best match search method in depth recovery with descent images. Machine Vision and Applications, 2015, 26, 251-266.	2.7	3
23	Transfer Learning for Rigid 2D/3D Cardiovascular Images Registration. Lecture Notes in Computer Science, 2019, , 380-390.	1.3	3
24	The Research of Global Correction for C-Arm X-Ray Image Based on Pin-Hole Model. , 2009, , .		2
25	A fast X-corner detection method based on block-search strategy. Advances in Mechanical Engineering, 2019, 11, 168781401983414.	1.6	2
26	Visual marker localization in robot-assisted stereotactic neurosurgery. , 2011, , .		1
27	Incremental robust PCA for vessel segmentation in DSA sequences. Biomedical Physics and Engineering Express, 2022, , .	1.2	1
28	A Weakly Supervised Framework for 2D/3D Vascular Registration Oriented to Incomplete 2D Blood Vessels. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 381-390.	3.2	1
29	Robust Ellipse Fitting with an Auxiliary Normal. Lecture Notes in Computer Science, 2021, , 601-612.	1.3	0