

Akos Zarandy

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

410
citations

12
h-index

18
g-index

54
ext. papers

508
ext. citations

2.2
avg. IF

3.32
L-index

#	Paper	IF	Citations
47	Reference Free Incremental Deep Learning Model Applied for Camera-Based Respiration Monitoring. <i>IEEE Sensors Journal</i> , 2021 , 21, 2346-2352	4	0
46	Continuous Camera-Based Premature-Infant Monitoring Algorithms for NICU. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7215	2.6	2
45	Onboard Visual Horizon Detection for Unmanned Aerial Systems with Programmable Logic. <i>Electronics (Switzerland)</i> , 2020 , 9, 614	2.6	2
44	The applicability of on-line contextual calibration to a neural network based monocular collision avoidance system on a UAV. <i>IFAC-PapersOnLine</i> , 2019 , 52, 7-12	0.7	0
43	Three Dimensional Intruder Closest Point of Approach Estimation Based-on Monocular Image Parameters in Aircraft Sense and Avoid. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2019 , 93, 261-276	2.9	8
42	Navigation data extraction from monocular camera images during final approach 2018 ,		4
41	A real-time multi-camera vision system for UAV collision warning and navigation. <i>Journal of Real-Time Image Processing</i> , 2016 , 12, 709-724	1.9	14
40	. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2016 , 31, 18-27	2.4	38
39	Monocular image-based time to collision and closest point of approach estimation 2016 ,		5
38	Performance Analysis of Camera Rotation Estimation Algorithms in Multi-Sensor Fusion for Unmanned Aircraft Attitude Estimation. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2016 , 84, 759-777	2.9	6
37	Intraframe Scene Capturing and Speed Measurement Based on Superimposed Image: New Sensor Concept for Vehicle Speed Measurement. <i>Journal of Sensors</i> , 2016 , 2016, 1-10	2	3
36	Scalable, Low-Noise Architecture for Integrated Terahertz Imagers. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2015 , 36, 520-536	2.2	1
35	A novel algorithm for distant aircraft detection 2015 ,		13
34	Towards Real-Time Visual and IMU Data Fusion 2014 ,		3
33	Error analysis of algorithms for camera rotation calculation in GPS/IMU/camera fusion for UAV sense and avoid systems 2014 ,		6
32	Aircraft trajectory tracking with large sideslip angles for sense and avoid intruder state estimation 2014 ,		3
31	Estimation of Relative Direction Angle of Distant, Approaching Airplane in Sense-and-Avoid. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2013 , 69, 407-415	2.9	7

30	A Five-Camera Vision System for UAV Visual Attitude Calculation and Collision Warning. <i>Lecture Notes in Computer Science</i> , 2013 , 11-20	0.9	14
29	A hierarchical vision processing architecture oriented to 3D integration of smart camera chips. <i>Journal of Systems Architecture</i> , 2013 , 59, 908-919	5.5	6
28	Visual sense-and-avoid system for UAVs 2012 ,		3
27	Integrated CMOS sub-THz imager array 2012 ,		1
26	Volume and power optimized high-performance system for UAV collision avoidance 2012 ,		4
25	Bio-inspired looming direction detection method 2012 ,		4
24	Approaching object detector mouse retina circuit model analysis and implementation on cellular sensor-processor array. <i>International Journal of Circuit Theory and Applications</i> , 2012 , 40, 1249-1264	2	6
23	Performance Characteristics of a Complete Vision Only Sense and Avoid System 2012 ,		13
22	Vision Restoration and Vision Chip Technologies. <i>Procedia Computer Science</i> , 2011 , 7, 121-124	1.6	2
21	2D operators on topographic and non-topographic architectures Implementation, efficiency analysis, and architecture selection methodology. <i>International Journal of Circuit Theory and Applications</i> , 2011 , 39, 983-1005	2	12
20	Collision avoidance for UAV using visual detection 2011 ,		23
19	2011 ,		13
18	Performance analysis of a vision only Sense and Avoid system for small UAVs 2011 ,		14
17	VISCUBE: A Multi-Layer Vision Chip 2011 , 181-208		1
16	Anatomy of the Focal-Plane Sensor-Processor Arrays 2011 , 1-15		1
15	Bio-inspired looming object detector algorithm on the Eye-RIS focal plane-processor system 2010 ,		3
14	Digital processor array implementation aspects of a 3D multi-layer vision architecture 2010 ,		2
13	Displacement calculation algorithm on a heterogenous multi-layer cellular sensor processor array 2010 ,		3

12	Low-Power Processor Array Design Strategy for Solving Computationally Intensive 2D Topographic Problems 2010 , 215-245		
11	3D multi-layer vision architecture for surveillance and reconnaissance applications 2009 ,		6
10	. <i>IEEE Circuits and Systems Magazine</i> , 2008 , 8, 6-24	3.2	7
9	Analysis of 2D operators on topographic and non-topographic processor architectures 2008 ,		2
8	Configurable 3D-integrated focal-plane cellular sensor processor array architecture. <i>International Journal of Circuit Theory and Applications</i> , 2008 , 36, 573-588	2	24
7	High performance processor array for image processing 2007 ,		9
6	3D integrated scalable focal-plane processor array 2007 ,		2
5	Digital implementation of cellular sensor-computers. <i>International Journal of Circuit Theory and Applications</i> , 2006 , 34, 409-428	2	22
4	THE NEW FRAMEWORK OF APPLICATIONS: THE ALADDIN SYSTEM. <i>Journal of Circuits, Systems and Computers</i> , 2003 , 12, 769-781	0.9	12
3	An Emulated Digital CNN Implementation. <i>Journal of Signal Processing Systems</i> , 1999 , 23, 291-303		29
2	The art of CNN template design. <i>International Journal of Circuit Theory and Applications</i> , 1999 , 27, 5-23	2	48
1	Implementation of large-neighbourhood non-linear templates on the CNN universal machine. <i>International Journal of Circuit Theory and Applications</i> , 1998 , 26, 551-566	2	9