

# Akos Zarandy

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/11212872/akos-zarandy-publications-by-citations.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	The art of CNN template design. <i>International Journal of Circuit Theory and Applications</i> , <b>1999</b> , 27, 5-23	2	48
46	. <i>IEEE Aerospace and Electronic Systems Magazine</i> , <b>2016</b> , 31, 18-27	2.4	38
45	An Emulated Digital CNN Implementation. <i>Journal of Signal Processing Systems</i> , <b>1999</b> , 23, 291-303		29
44	Configurable 3D-integrated focal-plane cellular sensor processor array architecture. <i>International Journal of Circuit Theory and Applications</i> , <b>2008</b> , 36, 573-588	2	24
43	Collision avoidance for UAV using visual detection <b>2011</b> ,		23
42	Digital implementation of cellular sensor-computers. <i>International Journal of Circuit Theory and Applications</i> , <b>2006</b> , 34, 409-428	2	22
41	A real-time multi-camera vision system for UAV collision warning and navigation. <i>Journal of Real-Time Image Processing</i> , <b>2016</b> , 12, 709-724	1.9	14
40	A Five-Camera Vision System for UAV Visual Attitude Calculation and Collision Warning. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 11-20	0.9	14
39	Performance analysis of a vision only Sense and Avoid system for small UAVs <b>2011</b> ,		14
38	A novel algorithm for distant aircraft detection <b>2015</b> ,		13
37	<b>2011</b> ,		13
36	Performance Characteristics of a Complete Vision Only Sense and Avoid System <b>2012</b> ,		13
35	2D operators on topographic and non-topographic architectures Implementation, efficiency analysis, and architecture selection methodology. <i>International Journal of Circuit Theory and Applications</i> , <b>2011</b> , 39, 983-1005	2	12
34	THE NEW FRAMEWORK OF APPLICATIONS: THE ALADDIN SYSTEM. <i>Journal of Circuits, Systems and Computers</i> , <b>2003</b> , 12, 769-781	0.9	12
33	Implementation of large-neighbourhood non-linear templates on the CNN universal machine. <i>International Journal of Circuit Theory and Applications</i> , <b>1998</b> , 26, 551-566	2	9
32	High performance processor array for image processing <b>2007</b> ,		9
31	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> , <b>2019</b> , 93, 261-276	2.9	8

30	Estimation of Relative Direction Angle of Distant, Approaching Airplane in Sense-and-Avoid. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2013</b> , 69, 407-415	2.9	7
29	. <i>IEEE Circuits and Systems Magazine</i> , <b>2008</b> , 8, 6-24	3.2	7
28	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> , <b>2016</b> , 84, 759-777	2.9	6
27	Error analysis of algorithms for camera rotation calculation in GPS/IMU/camera fusion for UAV sense and avoid systems <b>2014</b> ,		6
26	Approaching object detector mouse retina circuit model analysis and implementation on cellular sensor-processor array. <i>International Journal of Circuit Theory and Applications</i> , <b>2012</b> , 40, 1249-1264	2	6
25	A hierarchical vision processing architecture oriented to 3D integration of smart camera chips. <i>Journal of Systems Architecture</i> , <b>2013</b> , 59, 908-919	5.5	6
24	3D multi-layer vision architecture for surveillance and reconnaissance applications <b>2009</b> ,		6
23	Monocular image-based time to collision and closest point of approach estimation <b>2016</b> ,		5
22	Volume and power optimized high-performance system for UAV collision avoidance <b>2012</b> ,		4
21	Bio-inspired looming direction detection method <b>2012</b> ,		4
20	Navigation data extraction from monocular camera images during final approach <b>2018</b> ,		4
19	Towards Real-Time Visual and IMU Data Fusion <b>2014</b> ,		3
18	Aircraft trajectory tracking with large sideslip angles for sense and avoid intruder state estimation <b>2014</b> ,		3
17	Visual sense-and-avoid system for UAVs <b>2012</b> ,		3
16	Bio-inspired looming object detector algorithm on the Eye-RIS focal plane-processor system <b>2010</b> ,		3
15	Displacement calculation algorithm on a heterogenous multi-layer cellular sensor processor array <b>2010</b> ,		3
14	Intraframe Scene Capturing and Speed Measurement Based on Superimposed Image: New Sensor Concept for Vehicle Speed Measurement. <i>Journal of Sensors</i> , <b>2016</b> , 2016, 1-10	2	3
13	Onboard Visual Horizon Detection for Unmanned Aerial Systems with Programmable Logic. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 614	2.6	2

12	Vision Restoration and Vision Chip Technologies. <i>Procedia Computer Science</i> , <b>2011</b> , 7, 121-124	1.6	2
11	Digital processor array implementation aspects of a 3D multi-layer vision architecture <b>2010</b> ,		2
10	Analysis of 2D operators on topographic and non-topographic processor architectures <b>2008</b> ,		2
9	3D integrated scalable focal-plane processor array <b>2007</b> ,		2
8	Continuous Camera-Based Premature-Infant Monitoring Algorithms for NICU. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 7215	2.6	2
7	Scalable, Low-Noise Architecture for Integrated Terahertz Imagers. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2015</b> , 36, 520-536	2.2	1
6	Integrated CMOS sub-THz imager array <b>2012</b> ,		1
5	VISCUBE: A Multi-Layer Vision Chip <b>2011</b> , 181-208		1
4	Anatomy of the Focal-Plane Sensor-Processor Arrays <b>2011</b> , 1-15		1
3	The applicability of on-line contextual calibration to a neural network based monocular collision avoidance system on a UAV. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 7-12	0.7	0
2	Reference Free Incremental Deep Learning Model Applied for Camera-Based Respiration Monitoring. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 2346-2352	4	0
1	Low-Power Processor Array Design Strategy for Solving Computationally Intensive 2D Topographic Problems <b>2010</b> , 215-245		