

Akos Zarandy

List of Publications by Year in descending order

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54
papers

583
citations

840119

11
h-index

794141

19
g-index

54
all docs

54
docs citations

54
times ranked

344
citing authors

#	ARTICLE	IF	CITATIONS
1	The art of CNN template design. International Journal of Circuit Theory and Applications, 1999, 27, 5-23.	1.3	73
2	onboard visual sense and avoid system for small aircraft. IEEE Aerospace and Electronic Systems Magazine, 2016, 31, 18-27.	2.3	48
3	An Emulated Digital CNN Implementation. Journal of Signal Processing Systems, 1999, 23, 291-303.	1.0	39
4	Collision avoidance for UAV using visual detection. , 2011, , .		33
5	Digital implementation of cellular sensor-computers. International Journal of Circuit Theory and Applications, 2006, 34, 409-428.	1.3	27
6	Configurable 3Dâ€”integrated focalâ€”plane cellular sensorâ€”processor array architecture. International Journal of Circuit Theory and Applications, 2008, 36, 573-588.	1.3	25
7	THE NEW FRAMEWORK OF APPLICATIONS: THE ALADDIN SYSTEM. Journal of Circuits, Systems and Computers, 2003, 12, 769-781.	1.0	20
8	Implementation of large-neighbourhood non-linear templates on the CNN universal machine. International Journal of Circuit Theory and Applications, 1998, 26, 551-566.	1.3	19
9	Performance Characteristics of a Complete Vision Only Sense and Avoid System. , 2012, , .		19
10	2D operators on topographic and nonâ€”topographic architecturesâ€”implementation, efficiency analysis, and architecture selection methodology. International Journal of Circuit Theory and Applications, 2011, 39, 983-1005.	1.3	18
11	A Five-Camera Vision System for UAV Visual Attitude Calculation and Collision Warning. Lecture Notes in Computer Science, 2013, , 11-20.	1.0	18
12	A real-time multi-camera vision system for UAV collision warning and navigation. Journal of Real-Time Image Processing, 2016, 12, 709-724.	2.2	18
13	Visual Detection and Implementation Aspects of a UAV See and Avoid System. , 2011, , .		17
14	A novel algorithm for distant aircraft detection. , 2015, , .		17
15	Performance analysis of a vision only Sense and Avoid system for small UAVs. , 2011, , .		16
16	Insect-vision inspired collision warning vision processor for automobiles. IEEE Circuits and Systems Magazine, 2008, 8, 6-24.	2.6	11
17	Error analysis of algorithms for camera rotation calculation in GPS/IMU/camera fusion for UAV sense and avoid systems. , 2014, , .		11
18	High performance processor array for image processing. , 2007, , .		10

#	ARTICLE	IF	CITATIONS
19	Three Dimensional Intruder Closest Point of Approach Estimation Based-on Monocular Image Parameters in Aircraft Sense and Avoid. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 93, 261-276.	2.0	10
20	A hierarchical vision processing architecture oriented to 3D integration of smart camera chips. Journal of Systems Architecture, 2013, 59, 908-919.	2.5	9
21	Monocular image-based time to collision and closest point of approach estimation. , 2016, , .		9
22	Continuous Camera-Based Premature-Infant Monitoring Algorithms for NICU. Applied Sciences (Switzerland), 2021, 11, 7215.	1.3	9
23	3D multi-layer vision architecture for surveillance and reconnaissance applications. , 2009, , .		8
24	Approaching object detector mouse retina circuit model analysis and implementation on cellular sensorâ€¢processor array. International Journal of Circuit Theory and Applications, 2012, 40, 1249-1264.	1.3	7
25	Estimation of Relative Direction Angle of Distant, Approaching Airplane in Sense-and-Avoid. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 69, 407-415.	2.0	7
26	Performance Analysis of Camera Rotation Estimation Algorithms in Multi-Sensor Fusion for Unmanned Aircraft Attitude Estimation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 84, 759-777.	2.0	7
27	Visual sense-and-avoid system for UAVs. , 2012, , .		6
28	Volume and power optimized high-performance system for UAV collision avoidance. , 2012, , .		6
29	Bio-inspired looming direction detection method. , 2012, , .		6
30	Aircraft trajectory tracking with large sideslip angles for sense and avoid intruder state estimation. , 2014, , .		6
31	3D integrated scalable focal-plane processor array. , 2007, , .		5
32	Bio-inspired looming object detector algorithm on the Eye-RIS focal plane-processor system. , 2010, , .		5
33	Towards Real-Time Visual and IMU Data Fusion. , 2014, , .		5
34	Displacement calculation algorithm on a heterogenous multi-layer cellular sensor processor array. , 2010, , .		4
35	Intraframe Scene Capturing and Speed Measurement Based on Superimposed Image: New Sensor Concept for Vehicle Speed Measurement. Journal of Sensors, 2016, 2016, 1-10.	0.6	4
36	Navigation data extraction from monocular camera images during final approach. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
37	Onboard Visual Horizon Detection for Unmanned Aerial Systems with Programmable Logic. Electronics (Switzerland), 2020, 9, 614.	1.8	4
38	Digital processor array implementation aspects of a 3D multi-layer vision architecture. , 2010, , .		3
39	Reference Free Incremental Deep Learning Model Applied for Camera-Based Respiration Monitoring. IEEE Sensors Journal, 2021, 21, 2346-2352.	2.4	3
40	Anatomy of the Focal-Plane Sensor-Processor Arrays. , 2011, , 1-15.		3
41	VISCUBE: A Multi-Layer Vision Chip. , 2011, , 181-208.		3
42	Analysis of 2D operators on topographic and non-topographic processor architectures. , 2008, , .		2
43	Vision Restoration and Vision Chip Technologies. Procedia Computer Science, 2011, 7, 121-124.	1.2	2
44	Integrated CMOS sub-THz imager array. , 2012, , .		2
45	Performance analysis of camera rotation estimation algorithms for UAS sense and avoid. , 2015, , .		2
46	Scalable, Low-Noise Architecture for Integrated Terahertz Imagers. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 520-536.	1.2	1
47	Comparison of Mono Camera-based Static Obstacle Position Estimation Methods for Automotive Application. , 2019, , .		1
48	The applicability of on-line contextual calibration to a neural network based monocular collision avoidance system on a UAV. IFAC-PapersOnLine, 2019, 52, 7-12.	0.5	1
49	Clusterable Cellular Visual Microprocessor. , 2008, , .		0
50	Azimuth estimation of distant, approaching airplane in See-and-avoid Systems. , 2012, , .		0
51	Cellular processor array based UAV safety system. , 2012, , .		0
52	FPGA implementation of a foveal image processing system for UAV applications. , 2014, , .		0
53	Multi-Level Optimization for Enabling Life Critical Visual Inspections of Infants in Resource Limited Environment. , 2020, , .		0
54	Low-Power Processor Array Design Strategy for Solving Computationally Intensive 2D Topographic Problems. , 2010, , 215-245.		0