Andrzej S Sluzek

List of Publications by Year
in descending order

96 papers	508 citations	840776 11 h-index	839539 18 g-index
104 all docs	104 docs citations	104 times ranked	324 citing authors

#	Article	IF	Citations
1	A novel application of range-gated underwater laser imaging system (ULIS) in near-target turbid medium. Optics and Lasers in Engineering, 2005, 43, 995-1009.	3.8	79
2	Identification and inspection of 2-D objects using new moment-based shape descriptors. Pattern Recognition Letters, 1995, 16, 687-697.	4.2	38
3	Scattering noise estimation of range-gated imaging system in turbid condition. Optics Express, 2010, 18, 21147.	3.4	25
4	Visual analysis of socio-cognitive crowd behaviors for surveillance: A survey and categorization of trends and methods. Engineering Applications of Artificial Intelligence, 2019, 82, 294-312.	8.1	24
5	On moment-based local operators for detecting image patterns. Image and Vision Computing, 2005, 23, 287-298.	4.5	21
6	A low-dimensional local descriptor incorporating TPS warping for image matching. Image and Vision Computing, 2010, 28, 1184-1195.	4.5	20
7	Simple method for adaptive filtering of motion artifacts in E-textile wearable ECG sensors. , 2015, 2015, 3807-10.		17
8	Using moment invariants to recognize and locate partially occluded 2D objects. Pattern Recognition Letters, 1988, 7, 253-257.	4.2	15
9	A maximally stable extremal regions system-on-chip for real-time visual surveillance. , 2015, , .		15
10	Model of gated imaging in turbid media. Optical Engineering, 2005, 44, 116002.	1.0	13
11	Range Gated Imaging System for Underwater Robotic Vehicle. , 2006, , .		13
12	Improving Performances of MSER Features in Matching and Retrieval Tasks. Lecture Notes in Computer Science, 2016, , 759-770.	1.3	12
13	Relative scale method to locate an object in cluttered environment. Image and Vision Computing, 2008, 26, 259-274.	4.5	11
14	Automated real-time video surveillance algorithms for SoC implementation: A survey. , 2013, , .		11
15	Towards understanding socio-cognitive behaviors of crowds from visual surveillance data. Multimedia Tools and Applications, 2020, 79, 1781-1799.	3.9	11
16	A Survey on System-Level Techniques for Power Reduction in Field Programmable Gate Array (FPGA)-Based Devices. , 2008, , .		10
17	Image-Based Information Guide on Mobile Devices. Lecture Notes in Computer Science, 2008, , 346-355.	1.3	9
18	Performance Characteristics of Parallel and Pipelined Implementation of FIR Filters in FPGA Platform. , 2007, , .		7

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19	Average Packet Delay Analysis for a Mobile User in a Two-Tier Heterogeneous Cellular Network. IEEE Systems Journal, 2017, 11, 2726-2736.	4.6	7
20	Detection of Image Fragments Related by Affine Transforms: Matching Triangles and Ellipses. , 2010, , .		6
21	Novel fast and scalable parallel union-find ASIC implementation for real-time digital image segmentation. , 2015, , .		6
22	CamType: assistive text entry using gaze with an off-the-shelf webcam. Machine Vision and Applications, 2019, 30, 407-421.	2.7	6
23	Large Vocabularies for Keypoint-Based Representation and Matching of Image Patches. Lecture Notes in Computer Science, 2012, , 229-238.	1.3	6
24	A vision-based technique for assisting visually impaired people and autonomous agents. , 2010, , .		5
25	A hardware accelerator for real-time extraction of the linear-time MSER algorithm. , 2015, , .		5
26	Design of an Area-Efficient Multiplierless Processing Element For Fast Two Dimensional Image Convolution. , 2006, , .		4
27	Novel machine vision methods for outdoor and built environments. Automation in Construction, 2010, 19, 291-301.	9.8	4
28	Visual similarity issues in face recognition. International Journal of Biometrics, 2012, 4, 22.	0.4	4
29	MSER and SIMSER Regions. , 2017, , .		4
30	Multi-distinctive MSER Features and Their Descriptors: A Low-Complexity Tool for Image Matching. Lecture Notes in Computer Science, 2015, , 672-680.	1.3	4
31	Practical quantitative assessment of imaging system in turbid water using a modified fidelity index. , 2003, , .		4
32	Embedding Visual Words into Concept Space for Action and Scene Recognition. , 2010, , .		4
33	Identification of planar objects in 3-D space from perspective projections. Pattern Recognition Letters, 1988, 7, 59-63.	4.2	3
34	Building Local Features from Pattern-Based Approximations of Patches: Discussion on Moments and Hough Transform. Eurasip Journal on Image and Video Processing, 2009, 2009, 1-10.	2.6	3
35	Automatic visual object formation using image fragment matching. , 2010, , .		3
36	Keypoint-Based Detection of Near-Duplicate Image Fragments Using Image Geometry and Topology. Lecture Notes in Computer Science, 2010, , 175-182.	1.3	3

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37	Evolutionary QR-Based Traffic Sign Recognition System for Next-Generation Intelligent Vehicles. , 2015, , .		3
38	Scene recognition by semantic visual words. Signal, Image and Video Processing, 2015, 9, 1935-1944.	2.7	3
39	Algorithmic foundations for hardware implementation of scale-insensitive MSER features. , 2016, , .		3
40	CNN-Based Analysis of Crowd Structure using Automatically Annotated Training Data. , 2019, , .		3
41	A Local Algorithm for Real-Time Junction Detection in Contour Images. Lecture Notes in Computer Science, 2001, , 465-472.	1.3	3
42	Feasibility Analysis of Eye Typing with a Standard Webcam. Lecture Notes in Computer Science, 2016, , 254-268.	1.3	3
43	A feasibility study on a novel method of visual obstacle detection. , 0, , .		2
44	Using Interest Points for Robust Visual Detection and Identification of Objects in Complex Scenes. , 2006, , .		2
45	Visual Detection of Objects by Mobile Agents using CBVIR Techniques of Low Complexity. , 2015, , .		2
46	A robust histogram-based image segmentation ASIC design for System-on-Chip using 65nm technology. , 2015, , .		2
47	Video-Surveillance Tools for Monitoring Social Responsibility Under Covid-19 Restrictions. Lecture Notes in Computer Science, 2020, , 227-239.	1.3	2
48	A New Local-Feature Framework for Scale-Invariant Detection of Partially Occluded Objects. Lecture Notes in Computer Science, 2006, , 248-257.	1.3	2
49	Detection of Near-Duplicate Patches in Random Images Using Keypoint-Based Features. Lecture Notes in Computer Science, 2012, , 301-312.	1.3	2
50	Approximation-Based Keypoints in Colour Images â€" A Tool for Building and Searching Visual Databases. , 2007, , 5-16.		2
51	An adaptive edge preserving variational method for color image regularization. , 2005, , .		1
52	<title>Quantitative image quality evaluations of enhanced images in turbid water medium</title>. , 2005, , .		1
53	3D Object Localization Using Local Shape Features. , 2006, , .		1
54	A method for detection of known objects in visual search tasks. , 2008, , .		1

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55	Experiments on data processing algorithms: energy efficiency of wireless and untethered field programmable gate array (FPGA)-based embedded systems. International Journal of Information and Communication Technology, 2009, 2, 4.	0.1	1
56	Real-Time Retrieval of Near-Duplicate Fragments in Images and Video-Clips. Lecture Notes in Computer Science, 2010, , 18-29.	1.3	1
57	Beyond Keypoints: Novel Techniques for Content-Based Image Matching and Retrieval. Lecture Notes in Computer Science, 2010, , 555-562.	1.3	1
58	Detection and segmentation of near-duplicate fragments in random images. , 2010, , .		1
59	Inverted indexing in image fragment retrieval using huge keypoint-based vocabularies. , 2013, , .		1
60	Affine-invariant description of keypoint bundles for detecting partial near-duplicates in random images. , 2013, , .		1
61	Novel MSER-guided street extraction from satellite images. , 2015, , .		1
62	Visual Target Tracking Using a Low-Cost Methodology Based on Visual Words. Lecture Notes in Computer Science, 2016, , 498-508.	1.3	1
63	Dynamic textures based target detection for PTZ camera sequences. , 2017, , .		1
64	Descriptor-Driven Keypoint Detection. , 2018, , .		1
65	Image Similarities on the Basis of Visual Content â€" An Attempt to Bridge the Semantic Gap. Lecture Notes in Computer Science, 2011, , 14-26.	1.3	1
66	New Types of Keypoints for Detecting Known Objects in Visual Search Tasks. , 0, , .		1
67	Extended Keypoint Description and the Corresponding Improvements in Image Retrieval. Lecture Notes in Computer Science, 2015, , 698-709.	1.3	1
68	Feature maps: a new approach in hierarchical interpretation of images. , 0, , .		0
69	Three-dimensional Machine Vision Using Gated Imaging System: A Numerical Analysis. , 2006, , .		0
70	Adaptable Area-Efficient Parallel Architecture for Grey and Color Image Convolvers. , 2007, , .		0
71	Detecting local features in complex images: A combination of Hough transform and moment-based approximations. , 2008, , .		0
72	Experiments on data processing algorithms: Energy efficiency of wireless and untethered Field Programmable Gate Array (FPGA)-based embedded systems. , 2008, , .		0

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73	A Rapid Image Approximation for Keypatches Building. , 2009, , .		0
74	Aligned matching: An efficient image matching technique. , 2009, , .		0
75	Performance evaluation of low-dimensional sifts. , 2010, , .		0
76	Using MTF for automated gated imaging system in turbid medium. , 2010, , .		0
77	Hierarchical object categorization with automatic feature selection. , 2010, , .		0
78	Post-processing of gated images by using seed growing fusion approach. , 2011, , .		0
79	Contextual descriptors improving credibility of keypoint matching: Harris-Affine, Hessian-Affme and SIFT feasibility study. , 2014, , .		0
80	Visual retrieval of known objects using supplementary depth data. AIP Conference Proceedings, 2016, , .	0.4	0
81	Preface of the â€œWorkshop on Numerical and Symbolic Computation in Computer Vision and Data Management WNSCCVDM 2015â€. AIP Conference Proceedings, 2016, , .	0.4	0
82	Bifurcations in two-image photometric stereo for orthogonal illuminations. AIP Conference Proceedings, 2017, , .	0.4	0
83	Scale-Insensitive MSER Features: AÂPromising Tool for Meaningful Segmentation of Images. Intelligent Systems Reference Library, 2018, , 31-50.	1.2	0
84	MSER-in-Chip: An Efficient Vision ToolÂfor IoT Devices. , 2019, , 245-259.		0
85	Simple Methodology for Eye Gaze Direction Estimation. Communications in Computer and Information Science, 2021, , 241-253.	0.5	0
86	Description-Based Ranking of Visual Instances: Feasibility Study for Keypoints. Lecture Notes in Networks and Systems, 2022, , 87-96.	0.7	0
87	Two efficient techniques for difficult applications of machine vision in construction industry. , 2008, , .		0
88	Image Features Based on Local Hough Transforms. Lecture Notes in Computer Science, 2009, , 143-150.	1.3	0
89	Improved Credibility of Keypoint Matching by Using Co-affine Pairs of Ellipses. Advances in Intelligent and Soft Computing, 2011, , 67-75.	0.2	0
90	Towards Vision-Based Understanding of Unknown Environments. Advances in Intelligent and Soft Computing, 2012, , 387-402.	0.2	0

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91	Partial Near-Duplicate Detection in Random Images by a Combination of Detectors. Lecture Notes in Computer Science, 2013, , 238-249.	1.3	0
92	A Novel Approach to Retrieval of Similar Patterns in Biological Images. Lecture Notes in Computer Science, 2013, , 643-652.	1.3	0
93	Moment-Based Methods of Identification and Localization of Partially Visible Objects. , 1989, , 281-291.		0
94	Near-duplicate Fragments in Simultaneously Captured Videos - A Study on Real-time Detection using CBVIR Approach. , 2016, , .		0
95	MSER-based Framework for Classification of Objects in Thermal Images. , 2019, , .		0
96	Mid-level Features for Categorization of Social Interactions in Public Spaces. , 2020, , .		0