

Robert Sablatnig

List of Publications by Year in descending order

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Version: 2024-02-01

124
papers

1,614
citations

567281

15
h-index

580821

25
g-index

130
all docs

130
docs citations

130
times ranked

1053
citing authors

#	ARTICLE	IF	CITATIONS
1	CVL-DataBase: An Off-Line Database for Writer Retrieval, Writer Identification and Word Spotting. , 2013, , .		135
2	A Novel Image Retrieval Based on Visual Words Integration of SIFT and SURF. PLoS ONE, 2016, 11, e0157428.	2.5	82
3	Writer Identification and Writer Retrieval Using the Fisher Vector on Visual Vocabularies. , 2013, , .		64
4	Writer Identification and Retrieval Using a Convolutional Neural Network. Lecture Notes in Computer Science, 2015, , 26-37.	1.3	61
5	A Robust SIFT Descriptor for Multispectral Images. IEEE Signal Processing Letters, 2014, 21, 400-403.	3.6	60
6	Image retrieval by addition of spatial information based on histograms of triangular regions. Computers and Electrical Engineering, 2016, 54, 539-550.	4.8	57
7	Word Beam Search: A Connectionist Temporal Classification Decoding Algorithm. , 2018, , .		53
8	Writer Retrieval and Writer Identification Using Local Features. , 2012, , .		52
9	3D MURALE. , 2001, , .		44
10	ICDAR 2013 Competition on Handwritten Digit Recognition (HDRC 2013). , 2013, , .		41
11	Transforming scholarship in the archives through handwritten text recognition. Journal of Documentation, 2019, 75, 954-976.	1.6	40
12	Rule based system for archaeological pottery classification. Pattern Recognition Letters, 2007, 28, 740-747.	4.2	38
13	Recognition of Degraded Handwritten Characters Using Local Features. , 2009, , .		29
14	Architectural Style Classification of Building Facade Windows. Lecture Notes in Computer Science, 2011, , 280-289.	1.3	29
15	Binarization-Free Text Line Segmentation for Historical Documents Based on Interest Point Clustering. , 2012, , .		28
16	Layout Analysis for Historical Manuscripts Using Sift Features. , 2011, , .		27
17	Identification of drawing tools by classification of textural and boundary features of strokes. Pattern Recognition Letters, 2007, 28, 710-718.	4.2	26
18	ICFHR 2014 Competition on Handwritten Digit String Recognition in Challenging Datasets (HDSRC) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		25

#	ARTICLE	IF	CITATIONS
19	End-to-End Text Recognition Using Local Ternary Patterns, MSER and Deep Convolutional Nets. , 2014, ,		24
20	Model-Based Registration of Front- and Backviews of Rotationally Symmetric Objects. Computer Vision and Image Understanding, 2002, 87, 90-103.	4.7	22
21	Learning Features for Writer Retrieval and Identification using Triplet CNNs. , 2018, , .		22
22	A Survey of Techniques for Document and Archaeology Artefact Reconstruction. , 2009, , .		21
23	An automated pottery archival and reconstruction system. Computer Animation and Virtual Worlds, 2003, 14, 111-120.	0.9	20
24	Automatic image-based assessment of lesion development during hemangioma follow-up examinations. Artificial Intelligence in Medicine, 2010, 50, 83-94.	6.5	18
25	Text Line Detection for Heterogeneous Documents. , 2013, , .		18
26	Towards feature points based image matching between satellite imagery and aerial photographs of agriculture land. Computers and Electronics in Agriculture, 2016, 126, 12-20.	7.7	18
27	Feature points for multisensor images. Computers and Electrical Engineering, 2017, 62, 511-523.	4.8	17
28	Increasing flexibility for automatic visual inspection: the general analysis graph. Machine Vision and Applications, 2000, 12, 158-169.	2.7	16
29	Orientation of Fragments of Rotationally Symmetrical 3D-Shapes for Archaeological Documentation. , 2006, , .		15
30	Single landmark based self-localization of mobile robots. , 0, , .		14
31	Recognizing characters of ancient manuscripts. , 2010, , .		14
32	Text Classification and Document Layout Analysis of Paper Fragments. , 2011, , .		14
33	Enhancement of Multispectral Images of Degraded Documents by Employing Spatial Information. , 2013, , .		14
34	Evaluation of Methods for Optical 3-D Scanning of Human Pinnae. , 2013, , .		14
35	cBAD: ICDAR2019 Competition on Baseline Detection. , 2019, , .		14
36	Detection of Parking Cars in Stereo Satellite Images. Remote Sensing, 2020, 12, 2170.	4.0	14

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37	Verifying molecular clusters by 2-color localization microscopy and significance testing. Scientific Reports, 2020, 10, 4230.	3.3	14
38	<title>Structural analysis of paintings based on brush strokes</title>. , 1998, 3315, 87.		13
39	Document analysis applied to fragments. , 2010, , .		13
40	Detecting Text Areas and Decorative Elements in Ancient Manuscripts. , 2010, , .		13
41	Systematic skin segmentation: merging spatial and non-spatial data. Multimedia Tools and Applications, 2014, 69, 717-741.	3.9	13
42	Deep learning concepts and datasets for image recognition: overview 2019. , 2019, , .		13
43	A Performance Evaluation of SIFT and SURF for Multispectral Image Matching. Lecture Notes in Computer Science, 2012, , 166-173.	1.3	12
44	Event-driven feature analysis in a 4D spatiotemporal representation for ambient assisted living. , 2011, , .		11
45	3D Data Retrieval of Archaeological Pottery. Lecture Notes in Computer Science, 2006, , 387-395.	1.3	11
46	A Modified SIFT Descriptor for Image Matching under Spectral Variations. Lecture Notes in Computer Science, 2013, , 652-661.	1.3	11
47	Ancient document analysis based on text line extraction. , 2008, , .		10
48	Spatial and Spectral Based Segmentation of Text in Multispectral Images of Ancient Documents. , 2009, , .		10
49	Stereo Vision Based Self-localization of Autonomous Mobile Robots. Lecture Notes in Computer Science, 2008, , 367-380.	1.3	10
50	Higher order MRF for foreground-background separation in multi-spectral images of historical manuscripts. , 2010, , .		9
51	Line-based landmark recognition for self-localization of soccer robots. , 0, , .		8
52	Special issue on 3D acquisition technology for cultural heritage. Machine Vision and Applications, 2006, 17, 347-348.	2.7	8
53	Are Characters Objects?. , 2010, , .		8
54	Skew Estimation of Sparsely Inscribed Document Fragments. , 2012, , .		8

#	ARTICLE	IF	CITATIONS
55	MSIO: MultiSpectral Document Image BinarizatIOn. , 2016, , .		8
56	CNN Based Binarization of MultiSpectral Document Images. , 2019, , .		8
57	Fitting of a closed planar curve representing a profile of an archaeological fragment. , 2001, , .		7
58	Automatic Surveying of Cutaneous Hemangiomas. , 2006, , .		7
59	Torn Document Analysis as a Prerequisite for Reconstruction. , 2009, , .		7
60	Multispectral Image Acquisition of Ancient Manuscripts. Lecture Notes in Computer Science, 2012, , 30-39.	1.3	7
61	Improving OCR Accuracy by Applying Enhancement Techniques on Multispectral Images. , 2014, , .		7
62	Robust Skew Estimation of Handwritten and Printed Documents Based on Grayvalue Images. , 2014, , .		7
63	MultiSpectral Image Binarization using GMMs. , 2018, , .		7
64	Binarization of MultiSpectral Document Images. Lecture Notes in Computer Science, 2015, , 109-120.	1.3	7
65	Location tracker for a mobile robot. Industrial Informatics, 2009 INDIN 2009 7th IEEE International Conference on, 2007, , .	0.0	6
66	Multi-scale texture-based text recognition in ancient manuscripts. , 2010, , .		6
67	Architectural Style Classification of Domes. Lecture Notes in Computer Science, 2012, , 420-429.	1.3	6
68	Active Single Landmark Based Global Localization of Autonomous Mobile Robots. Lecture Notes in Computer Science, 2006, , 202-211.	1.3	6
69	Stereo and Structured Light as Acquisition Methods in the Field of Archaeology. Informatik Aktuell, 1992, , 398-404.	0.6	6
70	<title>Machine vision for automatic calibration of analog display instruments</title>. , 1995, , .		5
71	Stroke Segmentation in Infrared Reflectograms. Lecture Notes in Computer Science, 2003, , 1138-1145.	1.3	5
72	Recognition of degraded ancient characters based on dense SIFT. , 2014, , .		5

#	ARTICLE	IF	CITATIONS
73	Investigation of Ancient Manuscripts based on Multispectral Imaging. , 2015, , .		5
74	Scale Space Binarization Using Edge Information Weighted by a Foreground Estimation. , 2011, , .		4
75	Semi-automated document image clustering and retrieval. , 2013, , .		4
76	Local Descriptors for Document Layout Analysis. Lecture Notes in Computer Science, 2010, , 29-38.	1.3	4
77	Segmentation of Building Facade Domes. Lecture Notes in Computer Science, 2012, , 324-331.	1.3	4
78	Investigation on traditional and modern ceramic documentation. , 2005, , .		3
79	Texture Analysis for Stroke Classification in Infrared Reflectograms. Lecture Notes in Computer Science, 2005, , 459-469.	1.3	3
80	Embedded Real-Time Ball Detection Unit for the YABIRO Biped Robot. , 2006, , .		3
81	Contrast Enhancement in Multispectral Images by Emphasizing Text Regions. , 2008, , .		3
82	Document reconstruction by layout analysis of snippets. , 2010, , .		3
83	Proposing features for the reconstruction of marble plates of ephesos. , 2010, , .		3
84	Writer identification on historical Glagolitic documents. , 2013, , .		3
85	Interest Region Description Using Local Binary Pattern of Gradients. Lecture Notes in Computer Science, 2013, , 468-477.	1.3	3
86	Retrieval of striated toolmarks using convolutional neural networks. IET Computer Vision, 2017, 11, 613-619.	2.0	3
87	Visual inspection of watermeters used for automatic calibration. Lecture Notes in Computer Science, 1995, , 518-519.	1.3	3
88	Texture and Profile Features for Drawing Media Recognition in Underdrawings. , 2006, , .		2
89	A hybrid approach towards vision based self-localization of autonomous mobile robots. , 2007, , .		2
90	Estimating the original drawing trace of painted strokes. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
91	Comparison of reconstruction and example-based Super-Resolution. , 2011, , .		2
92	Recognizing Glagolitic Characters in Degraded Historical Documents. , 2014, , .		2
93	Investigation of Single Image Depth Prediction Under Different Lighting Conditions. Journal on Computing and Cultural Heritage, 2021, 14, 1-17.	2.1	2
94	A Method for Determining Geometrical Distortion of Off-The-Shelf Wide-Angle Cameras. Lecture Notes in Computer Science, 2005, , 224-229.	1.3	2
95	Determination of Ancient Manufacturing Techniques of Ceramics by 3D Shape Estimation. Lecture Notes in Computer Science, 2006, , 349-357.	1.3	2
96	Acquisition Evaluation on Outdoor Scanning for Archaeological Artifact Digitalization. , 2020, , .		2
97	Memory Efficient Vision Based Line Feature Extraction for Tiny Mobile Robots. Lecture Notes in Computer Science, 2009, , 287-296.	1.3	2
98	<title>Representing the object model for automatic visual inspection using a description language</title>. , 1998, , .		1
99	<title>Adaptive area-based stereo matching</title>. , 1998, 3313, 14.		1
100	Drawing tool recognition by stroke ending analysis. Proceedings of SPIE, 2008, , .	0.8	1
101	Lifelogging keyframe selection using image quality measurements and physiological excitement features. , 2013, , .		1
102	Regularized single-image super-resolution based on progressive gradient estimation. , 2015, , .		1
103	FORMS-Locks: A Dataset for the Evaluation of Similarity Measures for Forensic Toolmark Images. , 2017, , .		1
104	Embedded Real-Time Ball Detection Unit for the YABIRO Biped Robot. , 2006, , .		1
105	On Registering Front- and Backviews of Rotationally Symmetric Objects. Lecture Notes in Computer Science, 1999, , 339-346.	1.3	1
106	A Hough Voting Strategy for Registering Historical Aerial Images to Present-Day Satellite Imagery. Lecture Notes in Computer Science, 2017, , 595-605.	1.3	1
107	Writer Identification and Writer Retrieval Using Vision Transformer for Forensic Documents. Lecture Notes in Computer Science, 2022, , 352-366.	1.3	1
108	<title>Entropy of profile sections to estimate the next sensor position</title>. , 2000, 3958, 52.		0

#	ARTICLE	IF	CITATIONS
109	Automated stroke ending analysis for drawing tool classification. , 2008, , .		0
110	A Portable High Resolution Imaging System for Digitizing Large-Surface Paintings. , 2008, , .		0
111	Combining Spectral and Spatial Features for Robust Foreground-Background Separation. , 2010, , .		0
112	Form classification and retrieval using bag of words with shape features of line structures. , 2013, , .		0
113	A Gradient Extension of Center Symmetric Local Binary Patterns for Robust RGB-NIR Image Matching. , 2014, , .		0
114	Ruling analysis and classification of torn documents. , 2014, , .		0
115	2-Color Localization Microscopy and Significance Testing Approach (2-CLASTA). Biophysical Journal, 2020, 118, 167a.	0.5	0
116	In-Time 3D Reconstruction and Instance Segmentation from Monocular Sensor Data. , 2020, , .		0
117	Text Baseline Recognition Using a Recurrent Convolutional Neural Network. , 2021, , .		0
118	Registered Relief Depth (RRD) borobudur dataset for single-frame depth prediction on one-side artifacts. Data in Brief, 2021, 35, 106853.	1.0	0
119	MCCNet: Multi-Color Cascade Network with Weight Transfer for Single Image Depth Prediction on Outdoor Relief Images. Lecture Notes in Computer Science, 2021, , 263-278.	1.3	0
120	Image Acquisition & Processing Routines for Damaged Manuscripts. Digital Medievalist, 2010, 6, .	0.1	0
121	Automatische Ablesung von Wasserzählern zur Qualitätssicherung bei der Eichung. Informatik Aktuell, 1995, , 335-342.	0.6	0
122	Pinselstrichsegmentation als Basis für eine Klassifikation von Gemälden. Informatik Aktuell, 1996, , 392-399.	0.6	0
123	MultiSpectral Imaging for the Analysis of Historical Handwritings and Forgery Detection. , 2017, , 233-246.		0
124	Color-Light Multi Cascade Network for Single Image Depth Prediction on One Perspective Artifact Images. , 2022, , .		0