Robert Sablatnig

List of Publications by Year
in descending order

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	Color-Light Multi Cascade Network for Single Image Depth Prediction on One Perspective Artifact Images. , 2022, , .		0
2	Writer Identification andÂWriter Retrieval Using Vision Transformer forÂForensic Documents. Lecture Notes in Computer Science, 2022, , 352-366.	1.3	1
3	Text Baseline Recognition Using a Recurrent Convolutional Neural Network. , 2021, , .		0
4	Registered Relief Depth (RRD) borobudur dataset for single-frame depth prediction on one-side artifacts. Data in Brief, 2021, 35, 106853.	1.0	0
5	Investigation of Single Image Depth Prediction Under Different Lighting Conditions. Journal on Computing and Cultural Heritage, 2021, 14, 1-17.	2.1	2
6	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
7	Detection of Parking Cars in Stereo Satellite Images. Remote Sensing, 2020, 12, 2170.	4.0	14
8	2-Color Localization Microscopy and Significance Testing Approach (2-CLASTA). Biophysical Journal, 2020, 118, 167a.	0.5	0
9	In-Time 3D Reconstruction and Instance Segmentation from Monocular Sensor Data. , 2020, , .		0
10	Verifying molecular clusters by 2-color localization microscopy and significance testing. Scientific Reports, 2020, 10, 4230.	3.3	14
11	Acquisition Evaluation on Outdoor Scanning for Archaeological Artifact Digitalization. , 2020, , .		2
12	Transforming scholarship in the archives through handwritten text recognition. Journal of Documentation, 2019, 75, 954-976.	1.6	40
13	cBAD: ICDAR2019 Competition on Baseline Detection. , 2019, , .		14
14	CNN Based Binarization of MultiSpectral Document Images. , 2019, , .		8
15	Deep learning concepts and datasets for image recognition: overview 2019. , 2019, , .		13
16	Learning Features for Writer Retrieval and Identification using Triplet CNNs. , 2018, , .		22
17	MultiSpectral Image Binarization using GMMs. , 2018, , .		7
18	Word Beam Search: A Connectionist Temporal Classification Decoding Algorithm. , 2018, , .		53

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19	Feature points for multisensor images. Computers and Electrical Engineering, 2017, 62, 511-523.	4.8	17
20	FORMS-Locks: A Dataset for the Evaluation of Similarity Measures for Forensic Toolmark Images. , 2017, , .		1
21	Retrieval of striated toolmarks using convolutional neural networks. IET Computer Vision, 2017, 11, 613-619.	2.0	3
22	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
23	MultiSpectral Imaging for the Analysis of Historical Handwritings and Forgery Detection. , 2017, , 233-246.		0
24	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
25	Image retrieval by addition of spatial information based on histograms of triangular regions. Computers and Electrical Engineering, 2016, 54, 539-550.	4.8	57
26	MSIO: MultiSpectral Document Image BinarizatIOn. , 2016, , .		8
27	A Novel Image Retrieval Based on Visual Words Integration of SIFT and SURF. PLoS ONE, 2016, 11, e0157428.	2.5	82
28	Regularized single-image super-resolution based on progressive gradient estimation. , 2015, , .		1
29	Writer Identification and Retrieval Using a Convolutional Neural Network. Lecture Notes in Computer Science, 2015, , 26-37.	1.3	61
30	Investigation of Ancient Manuscripts based on Multispectral Imaging. , 2015, , .		5
31	Binarization of MultiSpectral Document Images. Lecture Notes in Computer Science, 2015, , 109-120.	1.3	7
32	A Gradient Extension of Center Symmetric Local Binary Patterns for Robust RGB-NIR Image Matching. , 2014, , .		0
33	Improving OCR Accuracy by Applying Enhancement Techniques on Multispectral Images. , 2014, , .		7
34	Robust Skew Estimation of Handwritten and Printed Documents Based on Grayvalue Images. , 2014, , .		7
35	ICFHR 2014 Competition on Handwritten Digit String Recognition in Challenging Datasets (HDSRC) Tj ETQq1 1 0.784314 rgBT /Overl		25
36	Ruling analysis and classification of torn documents. , 2014, , .		0

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37	Systematic skin segmentation: merging spatial and non-spatial data. Multimedia Tools and Applications, 2014, 69, 717-741.	3.9	13
38	A Robust SIFT Descriptor for Multispectral Images. IEEE Signal Processing Letters, 2014, 21, 400-403.	3.6	60
39	Recognition of degraded ancient characters based on dense SIFT. , 2014, , .		5
40	End-to-End Text Recognition Using Local Ternary Patterns, MSER and Deep Convolutional Nets. , 2014, , .		24
41	Recognizing Glagolitic Characters in Degraded Historical Documents. , 2014, , .		2
42	Text Line Detection for Heterogeneous Documents. , 2013, , .		18
43	CVL-DataBase: An Off-Line Database for Writer Retrieval, Writer Identification and Word Spotting. , 2013, , .		135
44	Enhancement of Multispectral Images of Degraded Documents by Employing Spatial Information. , 2013, , .		14
45	Writer identification on historical Glagolitic documents. , 2013, , .		3
46	Semi-automated document image clustering and retrieval. , 2013, , .		4
47	Form classification and retrieval using bag of words with shape features of line structures. , 2013, , .		0
48	Evaluation of Methods for Optical 3-D Scanning of Human Pinnas. , 2013, , .		14
49	Interest Region Description Using Local Binary Pattern of Gradients. Lecture Notes in Computer Science, 2013, , 468-477.	1.3	3
50	Writer Identification and Writer Retrieval Using the Fisher Vector on Visual Vocabularies. , 2013, , .		64
51	Lifelogging keyframe selection using image quality measurements and physiological excitement features. , 2013, , .		1
52	ICDAR 2013 Competition on Handwritten Digit Recognition (HDRC 2013). , 2013, , .		41
53	A Modified SIFT Descriptor for Image Matching under Spectral Variations. Lecture Notes in Computer Science, 2013, , 652-661.	1.3	11
54	Multispectral Image Acquisition of Ancient Manuscripts. Lecture Notes in Computer Science, 2012, , 30-39.	1.3	7

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55	Architectural Style Classification of Domes. Lecture Notes in Computer Science, 2012, , 420-429.	1.3	6
56	Binarization-Free Text Line Segmentation for Historical Documents Based on Interest Point Clustering. , 2012, , .		28
57	Writer Retrieval and Writer Identification Using Local Features. , 2012, , .		52
58	Skew Estimation of Sparsely Inscribed Document Fragments. , 2012, , .		8
59	A Performance Evaluation of SIFT and SURF for Multispectral Image Matching. Lecture Notes in Computer Science, 2012, , 166-173.	1.3	12
60	Segmentation of Building Facade Domes. Lecture Notes in Computer Science, 2012, , 324-331.	1.3	4
61	Comparison of reconstruction and example-based Super-Resolution. , 2011, , .		2
62	Layout Analysis for Historical Manuscripts Using Sift Features. , 2011, , .		27
63	Scale Space Binarization Using Edge Information Weighted by a Foreground Estimation. , 2011, , .		4
64	Event-driven feature analysis in a 4D spatiotemporal representation for ambient assisted living. , 2011, , .		11
65	Text Classification and Document Layout Analysis of Paper Fragments. , 2011, , .		14
66	Architectural Style Classification of Building Facade Windows. Lecture Notes in Computer Science, 2011, , 280-289.	1.3	29
67	Document reconstruction by layout analysis of snippets. , 2010, , .		3
68	Automatic image-based assessment of lesion development during hemangioma follow-up examinations. Artificial Intelligence in Medicine, 2010, 50, 83-94.	6.5	18
69	Combining Spectral and Spatial Features for Robust Foreground-Background Separation. , 2010, , .		0
70	Recognizing characters of ancient manuscripts. , 2010, , .		14
71	Document analysis applied to fragments. , 2010, , .		13
72	Higher order MRF for foreground-background separation in multi-spectral images of historical manuscripts. , 2010, , .		9

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73	Detecting Text Areas and Decorative Elements in Ancient Manuscripts. , 2010, , .		13
74	Multi-scale texture-based text recognition in ancient manuscripts. , 2010, , .		6
75	Proposing features for the reconstruction of marble plates of ephesos. , 2010, , .		3
76	Are Characters Objects?. , 2010, , .		8
77	Local Descriptors for Document Layout Analysis. Lecture Notes in Computer Science, 2010, , 29-38.	1.3	4
78	Image Acquisition & Processing Routines for Damaged Manuscripts. Digital Medievalist, 2010, 6, .	0.1	0
79	Spatial and Spectral Based Segmentation of Text in Multispectral Images of Ancient Documents. , 2009, , .		10
80	Torn Document Analysis as a Prerequisite for Reconstruction. , 2009, , .		7
81	A Survey of Techniques for Document and Archaeology Artefact Reconstruction. , 2009, , .		21
82	Recognition of Degraded Handwritten Characters Using Local Features. , 2009, , .		29
83	Memory Efficient Vision Based Line Feature Extraction for Tiny Mobile Robots. Lecture Notes in Computer Science, 2009, , 287-296.	1.3	2
84	Ancient document analysis based on text line extraction. , 2008, , .		10
85	Automated stroke ending analysis for drawing tool classification. , 2008, , .		0
86	A Portable High Resolution Imaging System for Digitizing Large-Surface Paintings. , 2008, , .		0
87	Contrast Enhancement in Multispectral Images by Emphasizing Text Regions. , 2008, , .		3
88	Drawing tool recognition by stroke ending analysis. Proceedings of SPIE, 2008, , .	0.8	1
89	Estimating the original drawing trace of painted strokes. , 2008, , .		2
90	Stereo Vision Based Self-localization of Autonomous Mobile Robots. Lecture Notes in Computer Science, 2008, , 367-380.	1.3	10

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91	Location tracker for a mobile robot. Industrial Informatics, 2009 INDIN 2009 7th IEEE International Conference on, 2007, , .	0.0	6
92	A hybrid approach towards vision based self-localization of autonomous mobile robots. , 2007, , .		2
93	Rule based system for archaeological pottery classification. Pattern Recognition Letters, 2007, 28, 740-747.	4.2	38
94	Identification of drawing tools by classification of textural and boundary features of strokes. Pattern Recognition Letters, 2007, 28, 710-718.	4.2	26
95	Embedded Real-Time Ball Detection Unit for the YABIRO Biped Robot. , 2006, , .		3
96	Orientation of Fragments of Rotationally Symmetrical 3D-Shapes for Archaeological Documentation. , 2006, , .		15
97	Special issue on 3D acquisition technology for cultural heritage. Machine Vision and Applications, 2006, 17, 347-348.	2.7	8
98	Texture and Profile Features for Drawing Media Recognition in Underdrawings. , 2006, , .		2
99	Automatic Surveying of Cutaneous Hemangiomas. , 2006, , .		7
100	Determination of Ancient Manufacturing Techniques of Ceramics by 3D Shape Estimation. Lecture Notes in Computer Science, 2006, , 349-357.	1.3	2
101	3D Data Retrieval of Archaeological Pottery. Lecture Notes in Computer Science, 2006, , 387-395.	1.3	11
102	Active Single Landmark Based Global Localization of Autonomous Mobile Robots. Lecture Notes in Computer Science, 2006, , 202-211.	1.3	6
103	Embedded Real-Time Ball Detection Unit for the YABIRO Biped Robot. , 2006, , .		1
104	Investigation on traditional and modern ceramic documentation. , 2005, , .		3
105	Texture Analysis for Stroke Classification in Infrared Reflectogramms. Lecture Notes in Computer Science, 2005, , 459-469.	1.3	3
106	A Method for Determining Geometrical Distortion of Off-The-Shelf Wide-Angle Cameras. Lecture Notes in Computer Science, 2005, , 224-229.	1.3	2
107	An automated pottery archival and reconstruction system. Computer Animation and Virtual Worlds, 2003, 14, 111-120.	0.9	20
108	Stroke Segmentation in Infrared Reflectograms. Lecture Notes in Computer Science, 2003, , 1138-1145.	1.3	5

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109	Model-Based Registration of Front- and Backviews of Rotationally Symmetric Objects. Computer Vision and Image Understanding, 2002, 87, 90-103.	4.7	22
110	3D MURALE. , 2001, , .		44
111	Fitting of a closed planar curve representing a profile of an archaeological fragment. , 2001, , .		7
112	<title>Entropy of profile sections to estimate the next sensor position</title>. , 2000, 3958, 52.		0
113	Increasing flexibility for automatic visual inspection: the general analysis graph. Machine Vision and Applications, 2000, 12, 158-169.	2.7	16
114	On Registering Front- and Backviews of Rotationally Symmetric Objects. Lecture Notes in Computer Science, 1999, , 339-346.	1.3	1
115	<title>Structural analysis of paintings based on brush strokes</title>. , 1998, 3315, 87.		13
116	<title>Representing the object model for automatic visual inspection using a description language</title>. , 1998, , .		1
117	<title>Adaptive area-based stereo matching</title>. , 1998, 3313, 14.		1
118	Pinselstrichsegmentation als Basis für eine Klassifikation von Gemälden. Informatik Aktuell, 1996, , 392-399.	0.6	0
119	<title>Machine vision for automatic calibration of analog display instruments</title>. , 1995, , .		5
120	Automatische Ablesung von Wasserzählern zur Qualitätssicherung bei der Eichung. Informatik Aktuell, 1995, , 335-342.	0.6	0
121	Visual inspection of watermeters used for automatic calibration. Lecture Notes in Computer Science, 1995, , 518-519.	1.3	3
122	Stereo and Structured Light as Acquisition Methods in the Field of Archaeology. Informatik Aktuell, 1992, , 398-404.	0.6	6
123	Line-based landmark recognition for self-localization of soccer robots. , 0, , .		8
124	Single landmark based self-localization of mobile robots. , 0, , .		14