George Nagy

List of Publications by Year
in descending order

129 papers	3,095 citations	218381 26 h-index	197535 49 g-index
134 all docs	134 docs citations	134 times ranked	1432 citing authors

#	Article	IF	Citations
1	Twenty years of document image analysis in PAMI. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2000, 22, 38-62.	9.7	408
2	A Comparative Study of Local Matching Approach for Face Recognition. IEEE Transactions on Image Processing, 2007, 16, 2617-2628.	6.0	260
3	Rapid automated three-dimensional tracing of neurons from confocal image stacks. IEEE Transactions on Information Technology in Biomedicine, 2002, 6, 171-187.	3.6	202
4	Table-processing paradigms: a research survey. International Journal on Document Analysis and Recognition, 2006, 8, 66-86.	2.7	112
5	Syntactic segmentation and labeling of digitized pages from technical journals. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1993, 15, 737-747.	9.7	107
6	Towards Ontology Generation from Tables. World Wide Web, 2005, 8, 261-285.	2.7	105
7	Geographic Data Processing. ACM Computing Surveys, 1979, 11, 139-181.	16.1	103
8	Automated evaluation of OCR zoning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1995, 17, 86-90.	9.7	71
9	Style consistent classification of isogenous patterns. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 88-98.	9.7	69
10	Behavioral Aspects of Text Editors. ACM Computing Surveys, 1981, 13, 33-70.	16.1	67
11	Self-corrective character recognition system. IEEE Transactions on Information Theory, 1966, 12, 215-222.	1.5	63
12	Cracking, damage and fracture in four dimensions. Materials and Structures/Materiaux Et Constructions, 2007, 40, 357-364.	1.3	61
13	Terrain visibility. Computers and Graphics, 1994, 18, 763-773.	1.4	59
14	DOCUMENT ANALYSIS WITH AN EXPERT SYSTEM. , 1986, , 149-159.		58
15	Advances in Pattern Recognition. Scientific American, 1971, 224, 56-71.	1.0	55
16	A hierarchical structure for surface approximation. Computers and Graphics, 1984, 8, 183-193.	1.4	54
17	Technique to Measure 3D Work-of-Fracture of Concrete in Compression. Journal of Engineering Mechanics - ASCE, 1999, 125, 599-605.	1.6	47
18	<title>Self-correcting 100-font classifier</title>. , 1994, , .		46

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19	Optical Character Recognition. , 1999, , .		45
20	Style context with second-order statistics. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 14-22.	9.7	45
21	An Experimental Study of Machine Recognition of Hand-Printed Numerals. IEEE Transactions on Systems Science and Cybernetics, 1968, 4, 119-132.	0.6	40
22	Decision tree design using a probabilistic model (Corresp.). IEEE Transactions on Information Theory, 1984, 30, 93-99.	1.5	40
23	Validation of image defect models for optical character recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996, 18, 99-107.	9.7	38
24	Decoding Substitution Ciphers by Means of Word Matching with Application to OCR. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1987, PAMI-9, 710-715.	9.7	33
25	Spatial sampling of printed patterns. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1998, 20, 344-351.	9.7	32
26	Integrated text and line-art extraction from a topographic map. International Journal on Document Analysis and Recognition, 2000, 2, 177-185.	2.7	32
27	On sorting triangles in a delaunay tessellation. Algorithmica, 1991, 6, 522-532.	1.0	31
28	A procedure for predicting program editor performance from the user's point of view. International Journal of Man-Machine Studies, 1978, 10, 639-650.	0.7	30
29	In search of meaning for time series subsequence clustering. , 2006, , .		29
30	29 Optical character recognition—Theory and practice. Handbook of Statistics, 1982, , 621-649.	0.4	28
31	Two complementary techniques for digitized document analysis. , 1988, , .		28
32	Normalization techniques for handprinted numerals. Communications of the ACM, 1970, 13, 475-481.	3.3	27
33	Feature Extraction on Binary Patterns. IEEE Transactions on Systems Science and Cybernetics, 1969, 5, 273-278.	0.6	26
34	N-tuple features for OCR revisited. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996, 18, 734-745.	9.7	26
35	Image database. Image and Vision Computing, 1985, 3, 111-117.	2.7	25
36	Notes on Contemporary Table Recognition. Lecture Notes in Computer Science, 2006, , 164-175.	1.0	24

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37	Neural networks-then and now. IEEE Transactions on Neural Networks, 1991, 2, 316-318.	4.8	22
38	Candide's Practical Principles of Experimental Pattern Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1983, PAMI-5, 199-205.	9.7	21
39	Converting heterogeneous statistical tables on the web to searchable databases. International Journal on Document Analysis and Recognition, 2016, 19, 119-138.	2.7	21
40	A Document Analysis System for Supporting Electronic Voting Research. , 2008, , .		18
41	A Survey of Analog Memory Devices. IEEE Transactions on Electronic Computers, 1963, EC-12, 388-393.	0.5	17
42	Adaptive classifiers for multisource OCR. International Journal on Document Analysis and Recognition, 2003, 6, 154-166.	2.7	17
43	Analytical Results on Style-Constrained Bayesian Classification of Pattern Fields. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1280-1285.	9.7	17
44	Segmenting Tables via Indexing of Value Cells by Table Headers. , 2013, , .		17
45	Preliminary investigation of techniques for automated reading of unformatted text. Communications of the ACM, 1968, 11, 480-487.	3.3	15
46	Data Extraction from Web Tables: The Devil is in the Details. , 2011, , .		15
47	Visible models for interactive pattern recognition. Pattern Recognition Letters, 2007, 28, 2335-2342.	2.6	14
48	Volume and Surface Area Distributions of Cracks in Concrete. Lecture Notes in Computer Science, 2001, , 759-768.	1.0	13
49	Approximation of polygonal maps by cellular maps. Communications of the ACM, 1979, 22, 518-525.	3.3	12
50	Wang Notation Tool: Layout independent representation of tables. , 2008, , .		12
51	Issues in Ground-Truthing Graphic Documents. Lecture Notes in Computer Science, 2002, , 46-67.	1.0	12
52	Analysis and taxonomy of column header categories for web tables. , 2010, , .		11
53	Classification algorithms in pattern recognition. IEEE Transactions on Audio and Electroacoustics, 1968, 16, 203-212.	1.0	10
54	The CADAL calligraphic database. , 2011, , .		10

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55	Transforming Web Tables to a Relational Database. , 2014, , .		9
56	Computational method for calligraphic style representation and classification. Journal of Electronic Imaging, 2015, 24, 053003.	0.5	9
57	Table headers: An entrance to the data mine. , 2016, , .		9
58	Disruptive developments in document recognition. Pattern Recognition Letters, 2016, 79, 106-112.	2.6	9
59	Adaptive and Interactive Approaches to Document Analysis. Studies in Computational Intelligence, 2008, , 221-257.	0.7	9
60	VeriClick: an efficient tool for table format verification. , 2012, , .		8
61	CalliGUI: Interactive Labeling of Calligraphic Character Images. , 2011, , .		7
62	Style comparisons in calligraphy. Proceedings of SPIE, 2012, , .	0.8	7
63	End-to-End Conversion of HTML Tables for Populating a Relational Database. , 2014, , .		7
64	Human-Computer Interaction for Complex Pattern Recognition Problems. , 2006, , 271-286.		7
65	PRIMING THE RECOGNIZER. Series in Machine Perception and Artificial Intelligence, 1998, , 83-101.	0.1	7
66	Modeling Context as Statistical Dependence. Lecture Notes in Computer Science, 2005, , 515-528.	1.0	6
67	Ballot mark detection. , 2008, , .		6
68	Style-Based Ballot Mark Recognition. , 2009, , .		6
69	Mark detection from scanned ballots. Proceedings of SPIE, 2009, , .	0.8	6
70	Green Interaction for Extracting Family Information from OCR'd Books. , 2018, , .		6
71	From Tessellations to Table Interpretation. Lecture Notes in Computer Science, 2009, , 422-437.	1.0	6
72	Towards a Structured-Document-Image Utility. , 1992, , 54-69.		6

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73	Generating assembly and machining sequences from the Face-to-Face Composition model. CAD Computer Aided Design, 1996, 28, 101-112.	1.4	5
74	When is a Problem Solved?. , 2011, , .		5
75	Pattern Recognition 1966 IEEE Workshop. IEEE Spectrum, 1967, 4, 92-94.	0.5	4
76	Efficient selection, storage, and retrieval of irregularly distributed elevation data. Computers and Geosciences, 1985, 11, 667-673.	2.0	4
77	Software calibration of the multifringe pattern analysis of circular zone plates. Applied Optics, 1997, 36, 8370.	2.1	4
78	A nonparametric classifier for unsegmented text. , 2003, , .		4
79	<title>Match graph generation for symbolic indirect correlation</title>. , 2006, 6067, 39.		4
80	Towards Improved Paper-Based Election Technology. , 2011, , .		4
81	Conservative preprocessing of document images. International Journal on Document Analysis and Recognition, 2016, 19, 321-333.	2.7	4
82	Green Information Extraction from Family Books. SN Computer Science, 2020, 1, 1.	2.3	4
83	A Quantitative Categorization of Phonemic Dialect Features in Context. Lecture Notes in Computer Science, 2005, , 326-338.	1.0	4
84	Simple Statistics for Complex Feature Spaces. , 2006, , 173-195.		4
85	Estimation, Learning, and Adaptation: Systems That Improve with Use. Lecture Notes in Computer Science, 2012, , 1-10.	1.0	4
86	DIA, OCR, AND THE WWW. , 1997, , 729-754.		4
87	Interactive, Mobile, Distributed Pattern Recognition. Lecture Notes in Computer Science, 2005, , 37-49.	1.0	4
88	COMPUTATIONAL GEOMETRY AND GEOGRAPHYâˆ—. Professional Geographer, 1980, 32, 343-354.	1.0	3
89	Characterizing challenged Minnesota ballots. , 2011, , .		3
90	Asymptotic cost in document conversion. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
91	Document analysis systems that improve with use. International Journal on Document Analysis and Recognition, 2020, 23, 13-29.	2.7	3
92	Classifier Adaptation with Non-representative Training Data. Lecture Notes in Computer Science, 2002, , 123-133.	1.0	3
93	Simple. SIGCSE Bulletin, 1981, 13, 7-12.	0.1	2
94	Advances in information extraction techniques. Remote Sensing of Environment, 1984, 15, 167-175.	4.6	2
95	Constrained integer approximation to planar line intersection. Information Processing Letters, 1991, 40, 137-139.	0.4	2
96	Visibility-related image features. Pattern Recognition Letters, 1992, 13, 463-470.	2.6	2
97	Bayesian subsequence matching and segmentation. Pattern Recognition Letters, 1997, 18, 1117-1124.	2.6	2
98	<title>Chipless ID for paper documents</title>. , 2005, , .		2
99	Query by table. , 2008, , .		2
100	Tools for monitoring, visualizing, and refining collections of noisy documents. , 2009, , .		2
101	Comment: Projection Methods Require Black Border Removal. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 762-762.	9.7	2
102	Form similarity via Levenshtein distance between ortho-filtered logarithmic ruling-gap ratios. Proceedings of SPIE, 2013, , .	0.8	2
103	Clustering header categories extracted from web tables. Proceedings of SPIE, 2015, , .	0.8	2
104	Multi-character Field Recognition for Arabic and Chinese Handwriting. , 2006, , 218-230.		2
105	Using Vanishing Points to Locate Objects with Six Degrees of Freedom. Machine Intelligence and Pattern Recognition, 1988, 7, 123-139.	0.2	2
106	The Role of Document Image Analysis in Trustworthy Elections. Statistical Science and Interdisciplinary Research, 2014, , 51-81.	0.0	2
107	Integer Approximation to the Intersection of Three Planes with Planar Constraints. , 1992, , 3-22.		2
108	A progress report on teaching programming to business students without lectures. SIGCSE Bulletin, 1979, 11, 247-250.	0.1	1

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109	Can we expect to improve text editing performance?. , 1982, , .		1
110	Tools for a Document Image Utility. Library Hi Tech, 1993, 11, 73-79.	3.7	1
111	Adapting the Turing Test for Declaring Document Analysis Problems Solved. , 2012, , .		1
112	Preprocessing document images by resampling is error prone and unnecessary. Proceedings of SPIE, 2013, , .	0.8	1
113	Optimal policy for labeling training samples. Proceedings of SPIE, 2013, , .	0.8	1
114	The Lifetime Reader. IEEE Pervasive Computing, 2018, 17, 86-95.	1.1	1
115	Reproducibility: Evaluating the Evaluations. Lecture Notes in Computer Science, 2021, , 12-23.	1.0	1
116	Imaging Reality and Abstraction an Exploration of Natural and Symbolic Patterns. , 2021, , .		1
117	Near-Perfect Relation Extraction from Family Books. Lecture Notes in Computer Science, 2021, , 477-491.	1.0	1
118	WHAT IS A â€œGOODâ€•DATA STRUCTURE FOR 2-D POINTS?. , 1980, , 119-135.		1
119	Profile of a university computer user community. International Journal of Man-Machine Studies, 1977, 9, 287-313.	0.7	0
120	Hardware laboratories. SIGCSE Bulletin, 1978, 10, 178-178.	0.1	0
121	Surveyor's Forum: Interpreting Experimental Data. ACM Computing Surveys, 1981, 13, 494.	16.1	0
122	Digitizing, coding, annotating, disseminating, and preserving documents. , 2007, , .		0
123	<title>DRR is a teenager</title>. Proceedings of SPIE, 2008, , .	0.8	0
124	Camera-Based Ballot Counter. , 2009, , .		0
125	Invariant representation for rectilinear rulings. Journal of Electronic Imaging, 2014, 23, 063011.	0.5	0
126	Notes on An Interdisciplinary Introduction to Image Processing. Signal, Image and Video Processing, 2014, 8, 397-398.	1.7	0

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127	Competition and Collaboration in Document Analysis and Recognition. Lecture Notes in Computer Science, 2021, , 176-187.	1.0	0
128	A Multi-layered Approach to Query Processing in Geographic Information Systems. , 1992, , 293-317.		0
129	Tongue in Cheek. Lecture Notes in Computer Science, 2015, , 332-342.	1.0	0