

Venu Govindaraju

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

135
papers

2,693
citations

23
h-index

47
g-index

142
ext. papers

3,118
ext. citations

3.8
avg, IF

5.33
L-index

#	Paper	IF	Citations
135	Chart Mining: A Survey of Methods for Automated Chart Analysis. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 3799-3819	13.3	12
134	FCN-LectureNet: Extractive Summarization of Whiteboard and Chalkboard Lecture Videos. <i>IEEE Access</i> , 2021 , 9, 104469-104484	3.5	2
133	Skeleton-Based Methods for Speaker Action Classification on Lecture Videos. <i>Lecture Notes in Computer Science</i> , 2021 , 250-264	0.9	1
132	ICPR 2020 - Competition on Harvesting Raw Tables from Infographics. <i>Lecture Notes in Computer Science</i> , 2021 , 361-380	0.9	3
131	IEEE Access Special Section Editorial: Trusted Computing. <i>IEEE Access</i> , 2020 , 8, 25722-25726	3.5	5
130	Domain adaptive representation learning for facial action unit recognition. <i>Pattern Recognition</i> , 2020 , 102, 107127	7.7	6
129	Learning Discriminative Factorized Subspaces With Application to Touchscreen Biometrics. <i>IEEE Access</i> , 2020 , 8, 152500-152511	3.5	1
128	Moving in the Right Direction: A Regularization for Deep Metric Learning 2020 ,		6
127	Multimodal Deep Feature Aggregation for Facial Action Unit Recognition using Visible Images and Physiological Signals 2019 ,		1
126	Generalized framework for summarization of fixed-camera lecture videos by detecting and binarizing handwritten content. <i>International Journal on Document Analysis and Recognition</i> , 2019 , 22, 221-233	3.8	3
125	Learning deep features for online person tracking using non-overlapping cameras: A survey. <i>Image and Vision Computing</i> , 2019 , 89, 222-235	3.7	3
124	Probabilistic Assessment of Glass Forming Ability Rules for Metallic Glasses Aided by Automated Analysis of Phase Diagrams. <i>Scientific Reports</i> , 2019 , 9, 357	4.9	14
123	ICDAR 2019 Competition on Harvesting Raw Tables from Infographics (CHART-Infographics) 2019 ,		10
122	Significant Feature Based Representation for Template Protection 2019 ,		5
121	Content Extraction from Lecture Video via Speaker Action Classification Based on Pose Information 2019 ,		2
120	Machine Learning for Atomic Scale Chemical and Morphological Assessment. <i>Microscopy and Microanalysis</i> , 2018 , 24, 526-527	0.5	
119	Knowledge Transfer Using Neural Network Based Approach for Handwritten Text Recognition 2018 ,		4

118	A discriminative spatio-temporal mapping of face for liveness detection 2017 ,		18
117	Learning Representations for Cryptographic Hash Based Face Template Protection. <i>Advances in Computer Vision and Pattern Recognition</i> , 2017 , 259-285	1.1	3
116	Bayesian background models for keyword spotting in handwritten documents. <i>Pattern Recognition</i> , 2017 , 64, 84-91	7.7	7
115	Cognitive-Biometric Recognition From Language Usage: A Feasibility Study. <i>IEEE Transactions on Information Forensics and Security</i> , 2017 , 12, 134-143	8	11
114	Understanding Line Plots Using Bayesian Network 2016 ,		1
113	Segmentation of highly unstructured handwritten documents using a neural network technique 2016 ,		2
112	Secure face template generation via local region hashing 2015 ,		11
111	Document Informatics for Scientific Learning and Accelerated Discovery. <i>Handbook of Statistics</i> , 2015 , 33, 3-28	0.6	
110	Automated analysis of line plots in documents 2015 ,		8
109	Statistical Relational Learning for Handwriting Recognition. <i>Lecture Notes in Computer Science</i> , 2015 , 126-138	0.9	
108	A Hierarchical Framework for Accent Based Writer Identification 2014 ,		1
107	Multiclass Learning for Writer Identification Using Error-Correcting Codes 2014 ,		1
106	Statistical script independent word spotting in offline handwritten documents. <i>Pattern Recognition</i> , 2014 , 47, 1039-1050	7.7	32
105	Bayesian Active Learning for Keyword Spotting in Handwritten Documents 2014 ,		3
104	Data Sufficiency for Online Writer Identification: A Comparative Study of Writer-Style Space vs. Feature Space Models 2014 ,		3
103	A Bayesian Approach to Script Independent Multilingual Keyword Spotting 2014 ,		2
102	Probabilistic spatio-temporal retrieval in smart spaces. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2014 , 5, 383-392	3.7	2
101	Segmentation Based Online Word Recognition: A Conditional Random Field Driven Beam Search Strategy 2013 ,		5

100	Online Handwritten Cursive Word Recognition Using Segmentation-Free MRF in Combination with P2DBMN-MQDF 2013 ,		7
99	Conditional Random Fields for Scene Labeling. <i>Handbook of Statistics</i> , 2013 , 31, 227-247	0.6	
98	A Bayesian Framework for Modeling Accents in Handwriting 2013 ,		3
97	IBM_UB_1: A Dual Mode Unconstrained English Handwriting Dataset 2013 ,		14
96	Towards fingerprints as strings: Secure indexing for fingerprint matching 2013 ,		8
95	Labeling Spain with Stanford. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 5362-71	8.7	
94	A hierarchical Bayesian approach to online writer identification. <i>IET Biometrics</i> , 2013 , 2, 191-198	2.9	12
93	A Model Based Framework for Table Processing in Degraded Document Images 2013 ,		5
92	Matching Score Fusion Methods. <i>Handbook of Statistics</i> , 2013 , 31, 151-175	0.6	
91	Semi-supervised framework for writer identification using structural learning. <i>IET Biometrics</i> , 2013 , 2, 208-215	2.9	2
90	Using a boosted tree classifier for text segmentation in hand-annotated documents. <i>Pattern Recognition Letters</i> , 2012 , 33, 943-950	4.7	13
89	Spatio-Temporal Querying in Smart Spaces. <i>Procedia Computer Science</i> , 2012 , 10, 366-373	1.6	3
88	Structural Learning for Writer Identification in Offline Handwriting 2012 ,		4
87	Modeling Writing Styles for Online Writer Identification: A Hierarchical Bayesian Approach 2012 ,		13
86	Script Independent Word Spotting in Offline Handwritten Documents Based on Hidden Markov Models 2012 ,		22
85	Accent Detection in Handwriting Based on Writing Styles 2012 ,		6
84	Ensemble of Biased Learners for Offline Arabic Handwriting Recognition 2012 ,		3
83	Image Enhancement for Degraded Binary Document Images 2011 ,		6

82	A Shared Parameter Model for Gesture and Sub-gesture Analysis. <i>Lecture Notes in Computer Science</i> , 2011 , 483-493	0.9	1
81	Spatio-Temporal Reasoning in Biometrics Based Smart Environments. <i>Procedia Computer Science</i> , 2011 , 5, 378-385	1.6	1
80	The Three Rs of Cyberphysical Spaces. <i>Computer</i> , 2011 , 44, 73-79	1.6	15
79	Unconstrained handwritten document retrieval. <i>International Journal on Document Analysis and Recognition</i> , 2011 , 14, 145-157	3.8	11
78	Detecting Figure-Panel Labels in Medical Journal Articles Using MRF 2011 ,		5
77	A Novel Lexicon Reduction Method for Arabic Handwriting Recognition 2010 ,		9
76	Leveraging the Mixed-Text Segmentation Problem to Design Secure Handwritten CAPTCHAs 2010 ,		1
75	Text Separation from Mixed Documents Using a Tree-Structured Classifier 2010 ,		5
74	Retrieving Handwriting Styles: A Content Based Approach to Handwritten Document Retrieval 2010 ,		11
73	A Robust Iris Localization Method Using an Active Contour Model and Hough Transform 2010 ,		49
72	Generation of Handwriting by Active Shape Modeling and Global Local Approximation (GLA) Adaptation 2010 ,		4
71	Removing Rule-Lines from Binary Handwritten Arabic Document Images Using Directional Local Profile 2010 ,		6
70	Evaluation of biometric spoofing in a multimodal system 2010 ,		32
69	Multimodal identification and tracking in smart environments. <i>Personal and Ubiquitous Computing</i> , 2010 , 14, 685-694	2.1	14
68	A Framework for Efficient Fingerprint Identification Using a Minutiae Tree. <i>IEEE Systems Journal</i> , 2010 , 4, 126-137	4.3	20
67	A Steerable Directional Local Profile Technique for Extraction of Handwritten Arabic Text Lines 2009 ,		70
66	Segmentation of Arabic Handwriting Based on both Contour and Skeleton Segmentation 2009 ,		18
65	A Hierarchical Classification Model for Document Categorization 2009 ,		5

64	Robustness of multimodal biometric fusion methods against spoof attacks. <i>Journal of Visual Languages and Computing</i> , 2009 , 20, 169-179		108
63	Automatic recognition of handwritten medical forms for search engines. <i>International Journal on Document Analysis and Recognition</i> , 2009 , 11, 203-218	3.8	19
62	Devanagari OCR using a recognition driven segmentation framework and stochastic language models. <i>International Journal on Document Analysis and Recognition</i> , 2009 , 12, 123-138	3.8	13
61	Using topic models for OCR correction. <i>International Journal on Document Analysis and Recognition</i> , 2009 , 12, 153-164	3.8	10
60	Phrase-based correction model for improving handwriting recognition accuracies. <i>Pattern Recognition</i> , 2009 , 42, 3271-3277	7.7	14
59	Synthetic handwritten CAPTCHAs. <i>Pattern Recognition</i> , 2009 , 42, 3365-3373	7.7	34
58	A probabilistic method for keyword retrieval in handwritten document images. <i>Pattern Recognition</i> , 2009 , 42, 3374-3382	7.7	30
57	Markov Random Field Based Text Identification from Annotated Machine Printed Documents 2009 ,		23
56	Keyword Spotting Techniques for Sanskrit Documents. <i>Lecture Notes in Computer Science</i> , 2009 , 403-416	0.9	4
55	Neural Network Optimization for Combinations in Identification Systems. <i>Lecture Notes in Computer Science</i> , 2009 , 418-427	0.9	1
54	A Cascade Multiple Classifier System for Document Categorization. <i>Lecture Notes in Computer Science</i> , 2009 , 458-467	0.9	2
53	Combining Facial Skin Mark and Eigenfaces for Face Recognition. <i>Lecture Notes in Computer Science</i> , 2009 , 424-433	0.9	3
52	Unconstrained face recognition using MRF priors and manifold traversing 2009 ,		2
51	Strategy-based behavioural biometrics: a novel approach to automated identification. <i>International Journal of Computer Applications in Technology</i> , 2009 , 35, 29	0.7	7
50	Use of Identification Trial Statistics for the Combination of Biometric Matchers. <i>IEEE Transactions on Information Forensics and Security</i> , 2008 , 3, 719-733	8	8
49	An OCR based approach for word spotting in Devanagari documents 2008 ,		4
48	Behavioural biometrics: a survey and classification. <i>International Journal of Biometrics</i> , 2008 , 1, 81	0.4	191
47	Binarization and cleanup of handwritten text from carbon copy medical form images. <i>Pattern Recognition</i> , 2008 , 41, 1308-1315	7.7	14

46	Biometrics Driven Smart Environments: Abstract Framework and Evaluation. <i>Lecture Notes in Computer Science</i> , 2008 , 75-89	0.9	8
45	Iterative Methods for Searching Optimal Classifier Combination Function 2007 ,		2
44	Fingerprint enhancement using STFT analysis. <i>Pattern Recognition</i> , 2007 , 40, 198-211	7.7	239
43	Symmetric hash functions for secure fingerprint biometric systems. <i>Pattern Recognition Letters</i> , 2007 , 28, 2427-2436	4.7	74
42	Generalized regression model for sequence matching and clustering. <i>Knowledge and Information Systems</i> , 2007 , 12, 77-94	2.4	3
41	Handwritten Carbon Form Preprocessing Based on Markov Random Field 2007 ,		18
40	Optimal Classifier Combination Rules for Verification and Identification Systems 2007 , 387-396		4
39	Direct and Indirect Human Computer Interaction Based Biometrics. <i>Journal of Computers</i> , 2007 , 2,	1.4	10
38	Robust Point-Based Feature Fingerprint Segmentation Algorithm. <i>Lecture Notes in Computer Science</i> , 2007 , 1095-1103	0.9	21
37	Utilizing Independence of Multimodal Biometric Matchers. <i>Lecture Notes in Computer Science</i> , 2006 , 34-41.9		3
36	Singularity Preserving Fingerprint Image Adaptive Filtering 2006 ,		6
35	Hidden Markov models combining discrete symbols and continuous attributes in handwriting recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2006 , 28, 458-62	13.3	22
34	Offline Arabic handwriting recognition: a survey. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2006 , 28, 712-24	13.3	280
33	A chaincode based scheme for fingerprint feature extraction. <i>Pattern Recognition Letters</i> , 2006 , 27, 462-468		32
32	Template-Free Word Spotting in Low-Quality Manuscripts 2006 ,		14
31	Visual CAPTCHA with Handwritten Image Analysis. <i>Lecture Notes in Computer Science</i> , 2005 , 42-52	0.9	8
30	GP-based secondary classifiers. <i>Pattern Recognition</i> , 2005 , 38, 505-512	7.7	9
29	A minutia-based partial fingerprint recognition system. <i>Pattern Recognition</i> , 2005 , 38, 1672-1684	7.7	162

28	A comparative study on the consistency of features in on-line signature verification. <i>Pattern Recognition Letters</i> , 2005 , 26, 2483-2489	4.7	89
27	Efficient search and retrieval in biometric databases 2005 ,		15
26	Challenges in OCR of Devanagari documents 2005 ,		5
25	Pre-processing methods for handwritten Arabic documents 2005 ,		34
24	Indexing Biometric Databases Using Pyramid Technique. <i>Lecture Notes in Computer Science</i> , 2005 , 841-849	19	
23	A Study on the Consistency of Features for On-Line Signature Verification. <i>Lecture Notes in Computer Science</i> , 2004 , 444-451	0.9	7
22	Security and matching of partial fingerprint recognition systems 2004 ,		13
21	Fingerprint image enhancement method using directional median filter 2004 ,		33
20	Document image analysis: A primer. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2002 , 27, 3-22	1	64
19	Use of adaptive segmentation in handwritten phrase recognition. <i>Pattern Recognition</i> , 2002 , 35, 245-252	7.7	8
18	Improved k-nearest neighbor classification. <i>Pattern Recognition</i> , 2002 , 35, 2311-2318	7.7	120
17	A Stochastic Model Combining Discrete Symbols and Continuous Attributes and Its Application to Handwriting Recognition. <i>Lecture Notes in Computer Science</i> , 2002 , 70-81	0.9	8
16	Improvements in K-Nearest Neighbor Classification. <i>Lecture Notes in Computer Science</i> , 2001 , 224-231	0.9	4
15	Holistic recognition of handwritten character pairs. <i>Pattern Recognition</i> , 2000 , 33, 1967-1973	7.7	20
14	Local reference lines for handwritten phrase recognition. <i>Pattern Recognition</i> , 1999 , 32, 2021-2028	7.7	11
13	An architecture for handwritten text recognition systems. <i>International Journal on Document Analysis and Recognition</i> , 1999 , 2, 37-44	3.8	43
12	Handwritten phrase recognition as applied to street name images. <i>Pattern Recognition</i> , 1998 , 31, 41-51	7.7	30
11	Perceptual features for off-line handwritten word recognition: A framework for heuristic prediction, representation and matching. <i>Lecture Notes in Computer Science</i> , 1998 , 524-531	0.9	2

10	Bankcheck Recognition using Cross Validation Between Legal and Courtesy Amounts. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1997 , 11, 657-674	1.1	20
9	Segmentation and recognition of connected handwritten numeral strings. <i>Pattern Recognition</i> , 1997 , 30, 1501-1504	7.7	43
8	BANKCHECK RECOGNITION USING CROSS VALIDATION BETWEEN LEGAL AND COURTESY AMOUNTS. <i>Series in Machine Perception and Artificial Intelligence</i> , 1997 , 195-212	0.3	3
7	Holistic handwritten word recognition using temporal features derived from off-line images. <i>Pattern Recognition Letters</i> , 1996 , 17, 537-540	4.7	19
6	Character image enhancement by selective region-growing. <i>Pattern Recognition Letters</i> , 1996 , 17, 523-527	4.7	19
5	Locating human faces in photographs. <i>International Journal of Computer Vision</i> , 1996 , 19, 129-146	10.6	54
4	Predicting Performance in Large-Scale Identification Systems by Score Resampling	363-388	1
3	Fast handwriting recognition for indexing historical documents		11
2	Tools for enabling digital access to multi-lingual Indic documents		7
1	Line separation for complex document images using fuzzy runlength		2