Venu Govindaraju

List of Publications by Year
in descending order

138 papers	3,644 citations	318942 23 h-index	198040 52 g-index
142 all docs	142 docs citations	142 times ranked	2445 citing authors

#	Article	IF	Citations
1	Chart Mining: A Survey of Methods for Automated Chart Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3799-3819.	9.7	41
2	FCN-LectureNet: Extractive Summarization of Whiteboard and Chalkboard Lecture Videos. IEEE Access, 2021, 9, 104469-104484.	2.6	12
3	Skeleton-Based Methods for Speaker Action Classification on Lecture Videos. Lecture Notes in Computer Science, 2021, , 250-264.	1.0	1
4	ICPR 2020 - Competition on Harvesting Raw Tables from Infographics. Lecture Notes in Computer Science, 2021, , 361-380.	1.0	14
5	Domain adaptive representation learning for facial action unit recognition. Pattern Recognition, 2020, 102, 107127.	5.1	11
6	Learning Discriminative Factorized Subspaces With Application to Touchscreen Biometrics. IEEE Access, 2020, 8, 152500-152511.	2.6	2
7	Moving in the Right Direction: A Regularization for Deep Metric Learning. , 2020, , .		20
8	IEEE Access Special Section Editorial: Trusted Computing. IEEE Access, 2020, 8, 25722-25726.	2.6	7
9	Learning deep features for online person tracking using non-overlapping cameras: A survey. Image and Vision Computing, 2019, 89, 222-235.	2.7	5
10	Multimodal Deep Feature Aggregation for Facial Action Unit Recognition using Visible Images and Physiological Signals. , 2019, , .		3
11	Generalized framework for summarization of fixed-camera lecture videos by detecting and binarizing handwritten content. International Journal on Document Analysis and Recognition, 2019, 22, 221-233.	2.7	6
12	ICDAR 2019 Competition on Harvesting Raw Tables from Infographics (CHART-Infographics). , 2019, , .		23
13	Significant Feature Based Representation for Template Protection. , 2019, , .		8
14	Content Extraction from Lecture Video via Speaker Action Classification Based on Pose Information. , 2019, , .		4
15	Probabilistic Assessment of Glass Forming Ability Rules for Metallic Glasses Aided by Automated Analysis of Phase Diagrams. Scientific Reports, 2019, 9, 357.	1.6	19
16	Development of a dual university system health research partnership as a foundation for the Sustainable Development Goals. The Lancet Global Health, 2018, 6, S11.	2.9	0
17	Article Citation Sentiment Analysis Using Deep Learning. , 2018, , .		4
18	Machine Learning for Atomic Scale Chemical and Morphological Assessment. Microscopy and Microanalysis, 2018, 24, 526-527.	0.2	0

#	Article	IF	Citations
19	Knowledge Transfer Using Neural Network Based Approach for Handwritten Text Recognition. , 2018, , .		8
20	A discriminative spatio-temporal mapping of face for liveness detection. , 2017, , .		23
21	Learning Representations for Cryptographic Hash Based Face Template Protection. Advances in Computer Vision and Pattern Recognition, 2017, , 259-285.	0.9	4
22	Bayesian background models for keyword spotting in handwritten documents. Pattern Recognition, 2017, 64, 84-91.	5.1	8
23	Cognitive-Biometric Recognition From Language Usage: A Feasibility Study. IEEE Transactions on Information Forensics and Security, 2017, 12, 134-143.	4.5	19
24	Understanding Line Plots Using Bayesian Network. , 2016, , .		3
25	Segmentation of highly unstructured handwritten documents using a neural network technique. , 2016, , .		2
26	Secure face template generation via local region hashing. , 2015, , .		12
27	Document Informatics for Scientific Learning and Accelerated Discovery. Handbook of Statistics, 2015, 33, 3-28.	0.4	0
28	Automated analysis of line plots in documents. , 2015, , .		20
29	Statistical Relational Learning for Handwriting Recognition. Lecture Notes in Computer Science, 2015, , 126-138.	1.0	1
30	Bayesian Active Learning for Keyword Spotting in Handwritten Documents. , 2014, , .		4
31	Data Sufficiency for Online Writer Identification: A Comparative Study of Writer-Style Space vs. Feature Space Models. , 2014, , .		6
32	A Bayesian Approach to Script Independent Multilingual Keyword Spotting. , 2014, , .		3
33	Probabilistic spatio-temporal retrieval in smart spaces. Journal of Ambient Intelligence and Humanized Computing, 2014, 5, 383-392.	3.3	3
34	A Hierarchical Framework for Accent Based Writer Identification. , 2014, , .		2
35	Multiclass Learning for Writer Identification Using Error-Correcting Codes. , 2014, , .		1
36	Statistical script independent word spotting in offline handwritten documents. Pattern Recognition, 2014, 47, 1039-1050.	5.1	36

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37	Segmentation Based Online Word Recognition: A Conditional Random Field Driven Beam Search Strategy. , 2013, , .		7
38	Online Handwritten Cursive Word Recognition Using Segmentation-Free MRF in Combination with P2DBMN-MQDF. , 2013, , .		7
39	Conditional Random Fields for Scene Labeling. Handbook of Statistics, 2013, 31, 227-247.	0.4	0
40	A Bayesian Framework for Modeling Accents in Handwriting. , 2013, , .		3
41	IBM_UB_1: A Dual Mode Unconstrained English Handwriting Dataset. , 2013, , .		18
42	Towards fingerprints as strings: Secure indexing for fingerprint matching. , 2013, , .		10
43	Labeling Spain With Stanford. IEEE Transactions on Image Processing, 2013, 22, 5362-5371.	6.0	0
44	A hierarchical Bayesian approach to online writer identification. IET Biometrics, 2013, 2, 191-198.	1.6	19
45	A Model Based Framework for Table Processing in Degraded Document Images. , 2013, , .		5
46	Matching Score Fusion Methods. Handbook of Statistics, 2013, 31, 151-175.	0.4	0
47	Semiâ€supervised framework for writer identification using structural learning. IET Biometrics, 2013, 2, 208-215.	1.6	2
48	Spatio-Temporal Querying in Smart Spaces. Procedia Computer Science, 2012, 10, 366-373.	1.2	4
49	Structural Learning for Writer Identification in Offline Handwriting. , 2012, , .		5
50	Modeling Writing Styles for Online Writer Identification: A Hierarchical Bayesian Approach. , 2012, , .		15
51	Script Independent Word Spotting in Offline Handwritten Documents Based on Hidden Markov Models. , 2012, , .		28
52	Accent Detection in Handwriting Based on Writing Styles. , 2012, , .		7
53	Ensemble of Biased Learners for Offline Arabic Handwriting Recognition. , 2012, , .		3
54	Using a boosted tree classifier for text segmentation in hand-annotated documents. Pattern Recognition Letters, 2012, 33, 943-950.	2.6	14

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55	Detecting Figure-Panel Labels in Medical Journal Articles Using MRF. , 2011, , .		7
56	Image Enhancement for Degraded Binary Document Images. , 2011, , .		9
57	A Shared Parameter Model for Gesture and Sub-gesture Analysis. Lecture Notes in Computer Science, 2011, , 483-493.	1.0	4
58	Spatio-Temporal Reasoning in Biometrics Based Smart Environments. Procedia Computer Science, 2011, 5, 378-385.	1.2	2
59	The Three Rs of Cyberphysical Spaces. Computer, 2011, 44, 73-79.	1.2	17
60	Unconstrained handwritten document retrieval. International Journal on Document Analysis and Recognition, 2011, 14, 145-157.	2.7	11
61	Multimodal identification and tracking in smart environments. Personal and Ubiquitous Computing, 2010, 14, 685-694.	1.9	16
62	A Framework for Efficient Fingerprint Identification Using a Minutiae Tree. IEEE Systems Journal, 2010, 4, 126-137.	2.9	25
63	A Novel Lexicon Reduction Method for Arabic Handwriting Recognition. , 2010, , .		11
64	Leveraging the Mixed-Text Segmentation Problem to Design Secure Handwritten CAPTCHAs. , 2010, , .		1
65	Text Separation from Mixed Documents Using a Tree-Structured Classifier. , 2010, , .		5
66	Retrieving Handwriting Styles: A Content Based Approach to Handwritten Document Retrieval. , 2010, , .		11
67	A Robust Iris Localization Method Using an Active Contour Model and Hough Transform. , 2010, , .		60
68	Generation of Handwriting by Active Shape Modeling and Global Local Approximation (GLA) Adaptation. , 2010, , .		4
69	Removing Rule-Lines from Binary Handwritten Arabic Document Images Using Directional Local Profile. , 2010, , .		8
70	Evaluation of biometric spoofing in a multimodal system. , 2010, , .		35
71	A Steerable Directional Local Profile Technique for Extraction of Handwritten Arabic Text Lines. , 2009, , .		91
72	Segmentation of Arabic Handwriting Based on both Contour and Skeleton Segmentation. , 2009, , .		29

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73	A Hierarchical Classification Model for Document Categorization. , 2009, , .		5
74	Robustness of multimodal biometric fusion methods against spoof attacks. Journal of Visual Languages and Computing, 2009, 20, 169-179.	1.8	127
75	Automatic recognition of handwritten medical forms for search engines. International Journal on Document Analysis and Recognition, 2009, 11, 203-218.	2.7	22
76	Devanagari OCR using a recognition driven segmentation framework and stochastic language models. International Journal on Document Analysis and Recognition, 2009, 12, 123-138.	2.7	20
77	Using topic models for OCR correction. International Journal on Document Analysis and Recognition, 2009, 12, 153-164.	2.7	10
78	Phrase-based correction model for improving handwriting recognition accuracies. Pattern Recognition, 2009, 42, 3271-3277.	5.1	15
79	Synthetic handwritten CAPTCHAs. Pattern Recognition, 2009, 42, 3365-3373.	5.1	38
80	A probabilistic method for keyword retrieval in handwritten document images. Pattern Recognition, 2009, 42, 3374-3382.	5.1	40
81	Markov Random Field Based Text Identification from Annotated Machine Printed Documents. , 2009, , .		25
82	Keyword Spotting Techniques for Sanskrit Documents. Lecture Notes in Computer Science, 2009, , 403-416.	1.0	5
83	Neural Network Optimization for Combinations in Identification Systems. Lecture Notes in Computer Science, 2009, , 418-427.	1.0	2
84	Unconstrained face recognition using MRF priors and manifold traversing. , 2009, , .		2
85	Strategy-based behavioural biometrics: a novel approach to automated identification. International Journal of Computer Applications in Technology, 2009, 35, 29.	0.3	8
86	Binarization and cleanup of handwritten text from carbon copy medical form images. Pattern Recognition, 2008, 41, 1308-1315.	5.1	15
87	Use of Identification Trial Statistics for the Combination of Biometric Matchers. IEEE Transactions on Information Forensics and Security, 2008, 3, 719-733.	4.5	11
88	<title>An OCR based approach for word spotting in Devanagari documents</title>. Proceedings of SPIE, 2008, , .	0.8	5
89	Behavioural biometrics: a survey and classification. International Journal of Biometrics, 2008, 1, 81.	0.3	243
90	Biometrics Driven Smart Environments: Abstract Framework and Evaluation. Lecture Notes in Computer Science, 2008, , 75-89.	1.0	11

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91	Handwritten Carbon Form Preprocessing Based on Markov Random Field. , 2007, , .		24
92	Language identification in historical Afghan manuscripts. , 2007, , .		0
93	Optimal Classifier Combination Rules for Verification and Identification Systems. , 2007, , 387-396.		4
94	CMOS Chemical and Biochemical Sensors using Nanostructured Materials. LEOS Summer Topical Meeting, 2007, , .	0.0	0
95	Iterative Methods for Searching Optimal Classifier Combination Function. , 2007, , .		2
96	Fingerprint enhancement using STFT analysis. Pattern Recognition, 2007, 40, 198-211.	5.1	320
97	Symmetric hash functions for secure fingerprint biometric systems. Pattern Recognition Letters, 2007, 28, 2427-2436.	2.6	97
98	Generalized regression model for sequence matching and clustering. Knowledge and Information Systems, 2007, 12, 77-94.	2.1	4
99	Robust Point-Based Feature Fingerprint Segmentation Algorithm. Lecture Notes in Computer Science, 2007, , 1095-1103.	1.0	34
100	Direct and Indirect Human Computer Interaction Based Biometrics. Journal of Computers, 2007, 2, .	0.4	11
101	Utilizing Independence of Multimodal Biometric Matchers. Lecture Notes in Computer Science, 2006, , 34-41.	1.0	5
102	Singularity Preserving Fingerprint Image Adaptive Filtering. , 2006, , .		6
103	Hidden Markov models combining discrete symbols and continuous attributes in handwriting recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 458-462.	9.7	27
104	Offline Arabic handwriting recognition: a survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 712-724.	9.7	372
105	A chaincode based scheme for fingerprint feature extraction. Pattern Recognition Letters, 2006, 27, 462-468.	2.6	44
106	Template-Free Word Spotting in Low-Quality Manuscripts. , 2006, , .		16
107	Visual CAPTCHA with Handwritten Image Analysis. Lecture Notes in Computer Science, 2005, , 42-52.	1.0	14
108	GP-based secondary classifiers. Pattern Recognition, 2005, 38, 505-512.	5.1	11

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109	A minutia-based partial fingerprint recognition system. Pattern Recognition, 2005, 38, 1672-1684.	5.1	217
110	A comparative study on the consistency of features in on-line signature verification. Pattern Recognition Letters, 2005, 26, 2483-2489.	2.6	126
111	Efficient search and retrieval in biometric databases. , 2005, , .		24
112	Challenges in OCR of Devanagari documents. , 2005, , .		13
113	Pre-processing methods for handwritten Arabic documents. , 2005, , .		54
114	Indexing Biometric Databases Using Pyramid Technique. Lecture Notes in Computer Science, 2005, , 841-849.	1.0	26
115	Similarity-driven sequence classification based on support vector machines. , 2005, , .		1
116	A Study on the Consistency of Features for On-Line Signature Verification. Lecture Notes in Computer Science, 2004, , 444-451.	1.0	11
117	<title>Security and matching of partial fingerprint recognition systems</title>. , 2004, , .		15
118	<title>Fingerprint image enhancement method using directional median filter</title>. , 2004, , .		47
119	Document image analysis: A primer. Sadhana - Academy Proceedings in Engineering Sciences, 2002, 27, 3-22.	0.8	95
120	Use of adaptive segmentation in handwritten phrase recognition. Pattern Recognition, 2002, 35, 245-252.	5.1	9
121	Improved k-nearest neighbor classification. Pattern Recognition, 2002, 35, 2311-2318.	5.1	161
122	A Stochastic Model Combining Discrete Symbols and Continuous Attributes and Its Application to Handwriting Recognition. Lecture Notes in Computer Science, 2002, , 70-81.	1.0	11
123	Improvements in K-Nearest Neighbor Classification. Lecture Notes in Computer Science, 2001, , 224-231.	1.0	7
124	Holistic recognition of handwritten character pairs. Pattern Recognition, 2000, 33, 1967-1973.	5.1	27
125	Local reference lines for handwritten phrase recognition. Pattern Recognition, 1999, 32, 2021-2028.	5.1	13
126	An architecture for handwritten text recognition systems. International Journal on Document Analysis and Recognition, 1999, 2, 37-44.	2.7	66

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127	Handwritten phrase recognition as applied to street name images. Pattern Recognition, 1998, 31, 41-51.	5.1	35
128	Perceptual features for off-line handwritten word recognition: A framework for heuristic prediction, representation and matching. Lecture Notes in Computer Science, 1998, , 524-531.	1.0	4
129	Bankcheck Recognition using Cross Validation Between Legal and Courtesy Amounts. International Journal of Pattern Recognition and Artificial Intelligence, 1997, 11, 657-674.	0.7	26
130	Segmentation and recognition of connected handwritten numeral strings. Pattern Recognition, 1997, 30, 1501-1504.	5.1	49
131	BANKCHECK RECOGNITION USING CROSS VALIDATION BETWEEN LEGAL AND COURTESY AMOUNTS. Series in Machine Perception and Artificial Intelligence, 1997, , 195-212.	0.1	7
132	Holistic handwritten word recognition using temporal features derived from off-line images. Pattern Recognition Letters, 1996, 17, 537-540.	2.6	22
133	Character image enhancement by selective region-growing. Pattern Recognition Letters, 1996, 17, 523-527.	2.6	24
134	Locating human faces in photographs. International Journal of Computer Vision, 1996, 19, 129-146.	10.9	77
135	Fast handwriting recognition for indexing historical documents. , 0, , .		12
136	Tools for enabling digital access to multi-lingual indic documents. , 0, , .		9
137	Line separation for complex document images using fuzzy runlength. , 0, , .		22
138	Predicting Performance in Large-Scale Identification Systems by Score Resampling. , 0, , 363-388.		2