Robert Sabourin

List of Publications by Year
in descending order

210 papers	6,113 citations	93792 39 h-index	104191 69 g-index
212 all docs	212 docs citations	212 times ranked	3578 citing authors

#	Article	IF	Citations
1	An investigation into the effects of label noise on Dynamic Selection algorithms. Information Fusion, 2022, 80, 104-120.	11.7	1
2	Preprocessed dynamic classifier ensemble selection for highly imbalanced drifted data streams. Information Fusion, 2021, 66, 138-154.	11.7	62
3	A comprehensive comparison of end-to-end approaches for handwritten digit string recognition. Expert Systems With Applications, 2021, 165, 114196.	4.4	10
4	Intrapersonal Parameter Optimization for Offline Handwritten Signature Augmentation. IEEE Transactions on Information Forensics and Security, 2021, 16, 1335-1350.	4.5	16
5	Classifier Pool Generation based on a Two-level Diversity Approach. , 2021, , .		0
6	An Investigation of Feature Selection and Transfer Learning for Writer-Independent Offline Handwritten Signature Verification. , 2021, , .		4
7	Optimal human-machine collaboration for enhanced cost-sensitive biometric authentication. SAIEE Africa Research Journal, 2021, 112, 110-119.	1.1	0
8	Meta-Learning for Fast Classifier Adaptation to New Users of Signature Verification Systems. IEEE Transactions on Information Forensics and Security, 2020, 15, 1735-1745.	4.5	21
9	CSBF: A static ensemble fusion method based on the centrality score of complex networks. Computational Intelligence, 2020, 36, 522-556.	2.1	7
10	An End-to-End Approach for Recognition of Modern and Historical Handwritten Numeral Strings. , 2020, , .		7
11	Dynamic fusion of human and machine decisions for efficient cost-sensitive biometric authentication. , 2020, , .		0
12	A white-box analysis on the writer-independent dichotomy transformation applied to offline handwritten signature verification. Expert Systems With Applications, 2020, 154, 113397.	4.4	18
13	Data Preprocessing and Dynamic Ensemble Selection for Imbalanced Data Stream Classification. Communications in Computer and Information Science, 2020, , 367-379.	0.4	6
14	FIRE-DES++: Enhanced online pruning of base classifiers for dynamic ensemble selection. Pattern Recognition, 2019, 85, 149-160.	5.1	40
15	Online local pool generation for dynamic classifier selection. Pattern Recognition, 2019, 85, 132-148.	5.1	18
16	Characterizing and Evaluating Adversarial Examples for Offline Handwritten Signature Verification. IEEE Transactions on Information Forensics and Security, 2019, 14, 2153-2166.	4.5	30
17	On Dissimilarity Representation and Transfer Learning for Offline Handwritten Signature Verification. , 2019, , .		2
18	Dynamic Ensemble Selection and Data Preprocessing for Multi-Class Imbalance Learning. International Journal of Pattern Recognition and Artificial Intelligence, 2019, 33, 1940009.	0.7	11

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19	Random forest dissimilarity based multi-view learning for Radiomics application. Pattern Recognition, 2019, 88, 185-197.	5.1	51
20	Characterization of Handwritten Signature Images in Dissimilarity Representation Space. Lecture Notes in Computer Science, 2019, , 192-206.	1.0	1
21	Fixed-sized representation learning from offline handwritten signatures of different sizes. International Journal on Document Analysis and Recognition, 2018, 21, 219-232.	2.7	57
22	A study on combining dynamic selection and data preprocessing for imbalance learning. Neurocomputing, 2018, 286, 179-192.	3.5	88
23	Adapting dynamic classifier selection for concept drift. Expert Systems With Applications, 2018, 104, 67-85.	4.4	56
24	Prototype selection for dynamic classifier and ensemble selection. Neural Computing and Applications, 2018, 29, 447-457.	3.2	30
25	Dynamic classifier selection: Recent advances and perspectives. Information Fusion, 2018, 41, 195-216.	11.7	283
26	A framework for dynamic classifier selection oriented by the classification problem difficulty. Pattern Recognition, 2018, 76, 175-190.	5.1	36
27	A Writer-Independent Approach for Offline Signature Verification using Deep Convolutional Neural Networks Features. , 2018, , .		29
28	Dynamic Ensemble Selection by K-Nearest Local Oracles with Discrimination Index. , 2018, , .		5
29	Forest Species Recognition Based on Ensembles of Classifiers. , 2018, , .		1
30	K-Nearest Oracles Borderline Dynamic Classifier Ensemble Selection. , 2018, , .		10
31	Generation of Duplicated Off-Line Signature Images for Verification Systems. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 951-964.	9.7	43
32	Robust watch-list screening using dynamic ensembles of SVMs based on multiple face representations. Machine Vision and Applications, 2017, 28, 219-241.	1.7	15
33	Dynamic ensembles of exemplar-SVMs for still-to-video face recognition. Pattern Recognition, 2017, 69, 61-81.	5.1	49
34	Learning features for offline handwritten signature verification using deep convolutional neural networks. Pattern Recognition, 2017, 70, 163-176.	5.1	234
35	META-DES.Oracle: Meta-learning and feature selection for dynamic ensemble selection. Information Fusion, 2017, 38, 84-103.	11.7	66
36	A two-step cascade classification method. , 2017, , .		3

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37	Online pruning of base classifiers for Dynamic Ensemble Selection. Pattern Recognition, 2017, 72, 44-58.	5.1	54
38	Dynamic ensemble selection VS K-NN: Why and when dynamic selection obtains higher classification performance?. , 2017, , .		14
39	Offline handwritten signature verification â€" Literature review. , 2017, , .		98
40	On the characterization of the Oracle for dynamic classifier selection. , 2017, , .		5
41	Learning Global-Local Distance Metrics for Signature-Based Biometric Cryptosystems. Cryptography, 2017, 1, 22.	1.4	2
42	Analyzing features learned for Offline Signature Verification using Deep CNNs. , 2016, , .		42
43	Contribution of data complexity features on dynamic classifier selection. , 2016, , .		16
44	Bayesian network as an adaptive parameter setting approach for genetic algorithms. Complex & Intelligent Systems, 2016, 2, 1-22.	4.0	23
45	Meta-learning recommendation of default size of classifier pool for META-DES. Neurocomputing, 2016, 216, 351-362.	3.5	8
46	Writer-independent feature learning for Offline Signature Verification using Deep Convolutional Neural Networks. , 2016, , .		82
47	Approaching the intra-class variability in multi-script static signature evaluation. , 2016, , .		10
48	The Multiclass ROC Front method for cost-sensitive classification. Pattern Recognition, 2016, 52, 46-60.	5.1	31
49	A Dual-Purpose Memory Approach for Dynamic Particle Swarm Optimization of Recurrent Problems. Studies in Computational Intelligence, 2016, , 367-389.	0.7	3
50	Transducer State Prediction System for Smart Environment Intelligent Control. , 2015, , .		2
51	A dominance-based stepwise approach for sensor placement optimization. Applied Soft Computing Journal, 2015, 28, 466-482.	4.1	4
52	META-DES.H: A Dynamic Ensemble Selection technique using meta-learning and a dynamic weighting approach. , 2015, , .		18
53	Combining overall and local class accuracies in an oracle-based method for dynamic ensemble selection. , 2015, , .		6
54	Adaptive skew-sensitive fusion of ensembles and their application to face re-identification. , 2015, , .		1

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55	META-DES: A dynamic ensemble selection framework using meta-learning. Pattern Recognition, 2015, 48, 1925-1935.	5.1	179
56	Adaptive skew-sensitive ensembles for face recognition in video surveillance. Pattern Recognition, 2015, 48, 3385-3406.	5.1	31
57	An adaptive ensemble-based system for face recognition in person re-identification. Machine Vision and Applications, 2015, 26, 741-773.	1.7	10
58	Individual-specific management of reference data in adaptive ensembles for face re-identification. IET Computer Vision, 2015, 9, 732-740.	1.3	1
59	Partially-supervised learning from facial trajectories for face recognition in video surveillance. Information Fusion, 2015, 24, 31-53.	11.7	54
60	On Meta-learning for Dynamic Ensemble Selection. , 2014, , .		12
61	Watch-List Screening Using Ensembles Based on Multiple Face Representations. , 2014, , .		14
62	Offline signature-based fuzzy vault: A review and new results. , 2014, , .		2
63	Design of Fuzzy Terminal Iterative Learning Control based on internal model control. , 2014, , .		0
64	Self-Updating with Facial Trajectories for Video-to-Video Face Recognition. , 2014, , .		2
65	A bio-cryptographic system based on offline signature images. Information Sciences, 2014, 259, 170-191.	4.0	24
66	Rapid blockwise multi-resolution clustering of facial images for intelligent watermarking. Machine Vision and Applications, 2014, 25, 277-300.	1.7	1
67	Skew-sensitive boolean combination for adaptive ensembles – An application to face recognition in video surveillance. Information Fusion, 2014, 20, 31-48.	11.7	21
68	Dynamic selection of classifiers—A comprehensive review. Pattern Recognition, 2014, 47, 3665-3680.	5.1	271
69	Assessing Textural Features for Writer Identification on Different Writing Styles and Forgeries. , 2014, , .		1
70	Dynamic Weighted Fusion of Adaptive Classifier Ensembles Based on Changing Data Streams. Lecture Notes in Computer Science, 2014, , 105-116.	1.0	1
71	Analyzing Dynamic Ensemble Selection Techniques Using Dissimilarity Analysis. Lecture Notes in Computer Science, 2014, , 59-70.	1.0	8
72	A database for automatic classification of forest species. Machine Vision and Applications, 2013, 24, 567-578.	1.7	75

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73	Securing high resolution grayscale facial captures using a blockwise coevolutionary GA. Expert Systems With Applications, 2013, 40, 6693-6706.	4.4	6
74	Dynamic selection approaches for multiple classifier systems. Neural Computing and Applications, 2013, 22, 673-688.	3.2	86
75	Fast intelligent watermarking of heterogeneous image streams through mixture modeling of PSO populations. Applied Soft Computing Journal, 2013, 13, 3130-3148.	4.1	17
76	Review of phenotypic diversity formulations for diagnostic tool. Applied Soft Computing Journal, 2013, 13, 9-26.	4.1	13
77	Dynamic multi-objective evolution of classifier ensembles for video face recognition. Applied Soft Computing Journal, 2013, 13, 3149-3166.	4.1	16
78	A classifier fusion system for bearing fault diagnosis. Expert Systems With Applications, 2013, 40, 6788-6797.	4.4	44
79	DS-DPSO: A dual surrogate approach for intelligent watermarking of bi-tonal document image streams. Expert Systems With Applications, 2013, 40, 5240-5259.	4.4	2
80	Single Classifier-based Multiple Classification Scheme for weak classifiers: An experimental comparison. Expert Systems With Applications, 2013, 40, 3606-3622.	4.4	9
81	Texture-based descriptors for writer identification and verification. Expert Systems With Applications, 2013, 40, 2069-2080.	4.4	142
82	Feature representation selection based on Classifier Projection Space and Oracle analysis. Expert Systems With Applications, 2013, 40, 3813-3827.	4.4	15
83	Performance of distributed multi-agent multi-state reinforcement spectrum management using different exploration schemes. Expert Systems With Applications, 2013, 40, 4115-4126.	4.4	9
84	Multi-feature extraction and selection in writer-independent off-line signature verification. International Journal on Document Analysis and Recognition, 2013, 16, 83-103.	2.7	71
85	Hybrid writerâ€independentâ€"writerâ€dependent offline signature verification system. IET Biometrics, 2013, 2, 169-181.	1.6	63
86	A Dissimilarity-Based Approach for Biometric Fuzzy Vaultsâ€"Application to Handwritten Signature Images. Lecture Notes in Computer Science, 2013, , 95-102.	1.0	1
87	Adaptive Ensemble Selection for Face Re-identification under Class Imbalance. Lecture Notes in Computer Science, 2013, , 95-108.	1.0	2
88	On the Dissimilarity Representation and Prototype Selection for Signature-Based Bio-cryptographic Systems. Lecture Notes in Computer Science, 2013, , 265-280.	1.0	4
89	Single Classifier Based Multiple Classifications. Lecture Notes in Computer Science, 2013, , 134-145.	1.0	0
90	Multi-objective evolutionary optimization for generating ensembles of classifiers in the ROC space. , 2012, , .		20

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91	A comparison of adaptive matchers for screening of faces in video surveillance. , 2012, , .		2
92	Gaussian mixture modeling for dynamic particle swarm optimization of recurrent problems. , 2012, , .		7
93	Assessing handwitten digit segmentation algorithms. , 2012, , .		1
94	Detecting bearing defects under high noise levels: A classifier fusion approach. , 2012, , .		4
95	Efficient cost-sensitive human-machine collaboration for offline signature verification. Proceedings of SPIE, 2012, , .	0.8	6
96	Fusion of biometric systems using Boolean combination: an application to iris-based authentication. International Journal of Biometrics, 2012, 4, 291.	0.3	9
97	Improving a dynamic ensemble selection method based on oracle information. International Journal of Innovative Computing and Applications, 2012, 4, 184.	0.2	4
98	Writer verification using texture-based features. International Journal on Document Analysis and Recognition, 2012, 15, 213-226.	2.7	49
99	Adaptation of Writer-Independent Systems for Offline Signature Verification. , 2012, , .		10
100	Review and Study of Genotypic Diversity Measures for Real-Coded Representations. IEEE Transactions on Evolutionary Computation, 2012, 16, 695-710.	7.5	37
101	Incremental update of biometric models in face-based video surveillance. , 2012, , .		8
102	Detector ensembles for face recognition in video surveillance. , 2012, , .		32
103	A dynamic model selection strategy for support vector machine classifiers. Applied Soft Computing Journal, 2012, 12, 2550-2565.	4.1	48
104	An adaptive classification system for video-based face recognition. Information Sciences, 2012, 192, 50-70.	4.0	60
105	A survey of techniques for incremental learning of HMM parameters. Information Sciences, 2012, 197, 105-130.	4.0	78
106	Adaptive ROC-based ensembles of HMMs applied to anomaly detection. Pattern Recognition, 2012, 45, 208-230.	5.1	37
107	Dynamic selection of generative–discriminative ensembles for off-line signature verification. Pattern Recognition, 2012, 45, 1326-1340.	5.1	81
108	Evolution of heterogeneous ensembles through dynamic particle swarm optimization for video-based face recognition. Pattern Recognition, 2012, 45, 2460-2477.	5.1	30

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109	LoGID: An adaptive framework combining local and global incremental learning for dynamic selection of ensembles of HMMs. Pattern Recognition, 2012, 45, 3544-3556.	5.1	38
110	Impact of watermarking on offline signature verification in intelligent bio-watermarking systems. , 2011, , .		2
111	Exploring the upper bound performance limit of iris biometrics using score calibration and fusion. , 2011, , .		3
112	Comparing dynamic PSO algorithms for adapting classifier ensembles in video-based face recognition. , 2011, , .		0
113	Classifier ensembles optimization guided by population oracle. , 2011, , .		4
114	Signature based Fuzzy Vaults with Boosted Feature Selection. , 2011, , .		9
115	A high throughput system for intelligent watermarking of bi-tonal images. Applied Soft Computing Journal, 2011, 11, 5215-5229.	4.1	17
116	A dynamic optimization approach for adaptive incremental learning. International Journal of Intelligent Systems, 2011, 26, 1101-1124.	3.3	6
117	Incremental Boolean Combination of Classifiers. Lecture Notes in Computer Science, 2011, , 340-349.	1.0	4
118	Improving performance of HMM-based off-line signature verification systems through a multi-hypothesis approach. International Journal on Document Analysis and Recognition, 2010, 13, 33-47.	2.7	15
119	Reducing forgeries in writer-independent off-line signature verification through ensemble of classifiers. Pattern Recognition, 2010, 43, 387-396.	5.1	161
120	Iterative Boolean combination of classifiers in the ROC space: An application to anomaly detection with HMMs. Pattern Recognition, 2010, 43, 2732-2752.	5.1	102
121	On the memory complexity of the forward–backward algorithm. Pattern Recognition Letters, 2010, 31, 91-99.	2.6	39
122	An adaptive ensemble of fuzzy ARTMAP neural networks for video-based face classification. , 2010, , .		9
123	Boolean Combination of Classifiers in the ROC Space. , 2010, , .		7
124	Intelligent Watermarking with Multi-objective Population Based Incremental Learning. , 2010, , .		4
125	Forest Species Recognition Using Color-Based Features. , 2010, , .		11
126	Adaptive Incremental Learning with an Ensemble of Support Vector Machines. , 2010, , .		7

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127	Dynamic Selection of Ensembles of Classifiers Using Contextual Information. Lecture Notes in Computer Science, 2010, , 145-154.	1.0	9
128	Applying Dissimilarity Representation to Off-Line Signature Verification. , 2010, , .		15
129	Intelligent Watermarking of Document Images as a Dynamic Optimization Problem. , 2010, , .		1
130	A Multi-Classifier System for Off-Line Signature Verification Based on Dissimilarity Representation. Lecture Notes in Computer Science, 2010, , 264-273.	1.0	7
131	A Multi-Hypothesis Approach for Off-Line Signature Verification with HMMs. , 2009, , .		3
132	Evaluation of Different Strategies to Optimize an HMM-Based Character Recognition System. , 2009, , .		1
133	SOLUTION OVER-FIT CONTROL IN EVOLUTIONARY MULTIOBJECTIVE OPTIMIZATION OF PATTERN CLASSIFICATION SYSTEMS. International Journal of Pattern Recognition and Artificial Intelligence, 2009, 23, 1107-1127.	0.7	8
134	COMPOUND DIVERSITY FUNCTIONS FOR ENSEMBLE SELECTION. International Journal of Pattern Recognition and Artificial Intelligence, 2009, 23, 659-686.	0.7	14
135	A PSO-based framework for dynamic SVM model selection. , 2009, , .		8
136	Ensemble of HMM classifiers based on the clustering validity index for a handwritten numeral recognizer. Pattern Analysis and Applications, 2009, 12, 21-35.	3.1	7
137	Evaluation of incremental learning algorithms for HMM in the recognition of alphanumeric characters. Pattern Recognition, 2009, 42, 3241-3253.	5.1	18
138	Combining different biometric traits with one-class classification. Signal Processing, 2009, 89, 2117-2127.	2.1	41
139	Overfitting cautious selection of classifier ensembles with genetic algorithms. Information Fusion, 2009, 10, 150-162.	11.7	71
140	A comparison of techniques for on-line incremental learning of HMM parameters in anomaly detection. , 2009, , .		10
141	Document reconstruction using dynamic programming. , 2009, , .		7
142	Incremental adaptation of fuzzy ARTMAP neural networks for video-based face classification. , 2009, , .		6
143	Leave-One-Out-Training and Leave-One-Out-Testing Hidden Markov Models for a Handwritten Numeral Recognizer: The Implications of a Single Classifier and Multiple Classifications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 2168-2178.	9.7	25
144	INTELLIGENT WATERMARKING SYSTEMS: A SURVEY. , 2009, , 687-724.		5

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145	MATCH TRACKING STRATEGIES FOR FUZZY ARTMAP NEURAL NETWORKS. , 2009, , 73-100.		0
146	A dynamic overproduce-and-choose strategy for the selection of classifier ensembles. Pattern Recognition, 2008, 41, 2993-3009.	5.1	139
147	Filtering segmentation cuts for digit string recognition. Pattern Recognition, 2008, 41, 3044-3053.	5.1	39
148	From dynamic classifier selection to dynamic ensemble selection. Pattern Recognition, 2008, 41, 1718-1731.	5.1	342
149	A new HMM training and testing scheme. , 2008, , .		1
150	Ensemble of classifiers for off-line signature verification. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	3
151	A comparison of fuzzy ARTMAP and Gaussian ARTMAP neural networks for incremental learning. , 2008, , .		4
152	Using the RRT algorithm to optimize classification systems for handwritten digits and letters. , 2008, , .		4
153	Pareto analysis for the selection of classifier ensembles. , 2008, , .		10
154	Fusion of biometric systems using one-class classification. , 2008, , .		1
155	The implication of data diversity for a classifier-free ensemble selection in random subspaces. , 2008, , .		6
156	Supervised Incremental Learning with the Fuzzy ARTMAP Neural Network. Lecture Notes in Computer Science, 2008, , 66-77.	1.0	8
157	State of the Art in Off-Line Signature Verification. , 2008, , 39-62.		19
158	Annealing Based Approach to Optimize Classification Systems. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	0
159	Off-line Signature Verification Using Writer-Independent Approach. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	24
160	Distance-based Disagreement Classifiers Combination. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	1
161	Ambiguity-guided dynamic selection of ensemble of classifiers. , 2007, , .		9
162	An empirical study on diversity measures and margin theory for ensembles of classifiers. , 2007, , .		20

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163	Multi-objective optimization of an ecological assembly model. Ecological Informatics, 2007, 2, 23-31.	2.3	4
164	Pairwise fusion matrix for combining classifiers. Pattern Recognition, 2007, 40, 2198-2210.	5.1	49
165	Methodology for the design of NN-based month-word recognizers written on Brazilian bank checks. Image and Vision Computing, 2007, 25, 40-49.	2.7	14
166	A New HMM-Based Ensemble Generation Method for Numeral Recognition. Lecture Notes in Computer Science, 2007, , 52-61.	1.0	6
167	Confusion Matrix Disagreement for Multiple Classifiers. Lecture Notes in Computer Science, 2007, , 387-396.	1.0	12
168	Supervised Learning of Fuzzy ARTMAP Neural Networks Through Particle Swarm Optimisation. Journal of Pattern Recognition Research, 2007, 2, 27-60.	0.9	29
169	Applying Pairwise Fusion Matrix on Fusion Functions for Classifier Combination. Lecture Notes in Computer Science, 2007, , 302-311.	1.0	0
170	A New Dynamic Ensemble Selection Method for Numeral Recognition. Lecture Notes in Computer Science, 2007, , 431-439.	1.0	4
171	Feature selection for ensembles applied to handwriting recognition. International Journal on Document Analysis and Recognition, 2006, 8, 262-279.	2.7	41
172	Evolving ensemble of classifiers in random subspace. , 2006, , .		6
173	An implicit segmentation-based method for recognition of handwritten strings of characters. , 2006, , .		18
174	Feature Selection for Ensembles Using the Multi-Objective Optimization Approach. , 2006, , 49-74.		29
175	A comparison of SVM and HMM classifiers in the off-line signature verification. Pattern Recognition Letters, 2005, 26, 1377-1385.	2.6	155
176	Ventilation Control Strategy Using the Supply CO2 Concentration Setpoint. HVAC and R Research, 2005, 11, 239-262.	0.9	29
177	Optimization of HVAC Control System Strategy Using Two-Objective Genetic Algorithm. HVAC and R Research, 2005, 11, 459-486.	0.9	141
178	Multi-objective Genetic Algorithms to Create Ensemble of Classifiers. Lecture Notes in Computer Science, 2005, , 592-606.	1.0	31
179	A Multi-objective Memetic Algorithm for Intelligent Feature Extraction. Lecture Notes in Computer Science, 2005, , 767-781.	1.0	8
180	Generating Ensemble of Classifiers through Unsupervised Feature Selection. IEEE Latin America Transactions, 2005, 3, 71-77.	1.2	1

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181	Recognition and verification of unconstrained handwritten words. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 1509-1522.	9.7	57
182	A Hybrid Multi-objective Evolutionary Algorithm for the Uncapacitated Exam Proximity Problem. Lecture Notes in Computer Science, 2005, , 294-312.	1.0	31
183	Combining Model-based and Discriminative Approaches in a Modular Two-stage Classification System: Application to Isolated Handwritten Digit Recognition. Electronic Letters on Computer Vision and Image Analysis, 2005, 5, 1.	0.5	8
184	Two-objective on-line optimization of supervisory control strategy. Building Services Engineering Research and Technology, 2004, 25, 241-251.	0.9	15
185	STUDY OF PERCEPTUAL SIMILARITY BETWEEN DIFFERENT LEXICONS. International Journal of Pattern Recognition and Artificial Intelligence, 2004, 18, 1321-1338.	0.7	6
186	Feature Subset Selection Using an Optimized Hill Climbing Algorithm for Handwritten Character Recognition. Lecture Notes in Computer Science, 2004, , 1018-1025.	1.0	2
187	A Strategy for Selecting Classes of Symbols from Classes of Graphemes in HMM-Based Handwritten Word Recognition. Revista Eletrônica De Sistemas De Informação, 2004, 3, .	0.0	0
188	The recognition of handwritten numeral strings using a two-stage HMM-based method. International Journal on Document Analysis and Recognition, 2003, 5, 102-117.	2.7	31
189	Lexicon-driven HMM decoding for large vocabulary handwriting recognition with multiple character models. International Journal on Document Analysis and Recognition, 2003, 6, 126-144.	2.7	20
190	Segmentation and recognition of handwritten dates: an HMM-MLP hybrid approach. International Journal on Document Analysis and Recognition, 2003, 6, 248-262.	2.7	18
191	Impacts of verification on a numeral string recognition system. Pattern Recognition Letters, 2003, 24, 1023-1031.	2.6	15
192	Morphological Pseudo Convex Hull to Correct Handwriting Baseline skew. , 2002, , 389-396.		1
193	Fast two-level Viterbi search algorithm for unconstrained handwriting recognition. , 2002, , .		2
194	An Enhanced HMM Topology in an LBA Framework for the Recognition of Handwritten Numeral Strings. Lecture Notes in Computer Science, 2001, , 105-114.	1.0	6
195	A Time—Length Constrained Level Building Algorithm for Large Vocabulary Handwritten Word Recognition. Lecture Notes in Computer Science, 2001, , 127-136.	1.0	7
196	HOW TO USE FRACTAL DIMENSIONS TO QUALIFY WRITINGS AND WRITERS. Fractals, 2000, 08, 85-97.	1.8	16
197	An HMM-based approach for off-line unconstrained handwritten word modeling and recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1999, 21, 752-760.	9.7	184
198	<title>Binary image compression using identity mapping backpropagation neural network</title>. , 1997, , .		3

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199	Off-line signature verification: Recent advances and perspectives. Lecture Notes in Computer Science, 1997, , 84-98.	1.0	12
200	A Cognitive Approach to Off-Line Signature Verification. International Journal of Pattern Recognition and Artificial Intelligence, 1997, 11, 801-825.	0.7	23
201	Off-line signature verification by local granulometric size distributions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1997, 19, 976-988.	9.7	115
202	Generation of signatures by deformations. Lecture Notes in Computer Science, 1997, , 283-298.	1.0	13
203	A simple methodology to bank cheque segmentation. Lecture Notes in Computer Science, 1997, , 334-343.	1.0	7
204	<title>Classification of cancerous cells based on the one-class problem approach</title>. , 1996, 2760, 487.		1
205	A neural network approach to off-line signature verification using directional PDF. Pattern Recognition, 1996, 29, 415-424.	5.1	98
206	Off-line signature verification without requiring random forgeries for training. Lecture Notes in Computer Science, 1995, , 107-115.	1.0	1
207	STRUCTURAL INTERPRETATION OF HANDWRITTEN SIGNATURE IMAGES. International Journal of Pattern Recognition and Artificial Intelligence, 1994, 08, 709-748.	0.7	20
208	STRUCTURAL INTERPRETATION OF HANDWRITTEN SIGNATURE IMAGES. Series in Machine Perception and Artificial Intelligence, 1994, , 69-108.	0.1	2
209	Off-line Identification With Handwritten Signature Images: Survey and Perspectives. , 1992, , 219-234.		30
210	AUTOMATIC PROCESSING OF SIGNATURE IMAGES: STATIC TECHNIQUES AND METHODS. , 1990, , 49-63.		2