

B John Oommen

List of Publications by Year in descending order

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339
papers

4,323
citations

159358

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h-index

197535

49
g-index

367
all docs

367
docs citations

367
times ranked

1386
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Discretized pursuit learning automata. IEEE Transactions on Systems, Man, and Cybernetics, 1990, 20, 931-938. | 0.9 | 136 |
| 2 | Generalized pursuit learning schemes: new families of continuous and discretized learning automata. IEEE Transactions on Systems, Man, and Cybernetics, 2002, 32, 738-749. | 5.5 | 136 |
| 3 | Robot navigation in unknown terrains using learned visibility graphs. Part I: The disjoint convex obstacle case. IEEE Journal of Robotics and Automation, 1987, 3, 672-681. | 2.2 | 132 |
| 4 | Continuous and discretized pursuit learning schemes: various algorithms and their comparison. IEEE Transactions on Systems, Man, and Cybernetics, 2001, 31, 277-287. | 5.5 | 122 |
| 5 | Deterministic learning automata solutions to the equipartitioning problem. IEEE Transactions on Computers, 1988, 37, 2-13. | 2.4 | 97 |
| 6 | The Kohonen network incorporating explicit statistics and its application to the travelling salesman problem. Neural Networks, 1999, 12, 1273-1284. | 3.3 | 87 |
| 7 | Graph partitioning using learning automata. IEEE Transactions on Computers, 1996, 45, 195-208. | 2.4 | 84 |
| 8 | A brief taxonomy and ranking of creative prototype reduction schemes. Pattern Analysis and Applications, 2003, 6, 232-244. | 3.1 | 83 |
| 9 | Discretized estimator learning automata. IEEE Transactions on Systems, Man, and Cybernetics, 1992, 22, 1473-1483. | 0.9 | 79 |
| 10 | Learning Automata-Based Solutions to the Nonlinear Fractional Knapsack Problem With Applications to Optimal Resource Allocation. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 166-175. | 5.5 | 76 |
| 11 | Continuous learning automata solutions to the capacity assignment problem. IEEE Transactions on Computers, 2000, 49, 608-620. | 2.4 | 75 |
| 12 | Random Early Detection for Congestion Avoidance in Wired Networks: A Discretized Pursuit Learning-Automata-Like Solution. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 66-76. | 5.5 | 74 |
| 13 | Stochastic learning-based weak estimation of multinomial random variables and its applications to pattern recognition in non-stationary environments. Pattern Recognition, 2006, 39, 328-341. | 5.1 | 70 |
| 14 | Stochastic searching on the line and its applications to parameter learning in nonlinear optimization. IEEE Transactions on Systems, Man, and Cybernetics, 1997, 27, 733-739. | 5.5 | 64 |
| 15 | Dynamic Algorithms for the Shortest Path Routing Problem: Learning Automata-Based Solutions. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 1179-1192. | 5.5 | 64 |
| 16 | epsilon -optimal discretized linear reward-penalty learning automata. IEEE Transactions on Systems, Man, and Cybernetics, 1988, 18, 451-458. | 0.9 | 59 |
| 17 | On the estimation of independent binomial random variables using occurrence and sequential information. Pattern Recognition, 2007, 40, 3263-3276. | 5.1 | 55 |
| 18 | Enhancing prototype reduction schemes with LVQ3-type algorithms. Pattern Recognition, 2003, 36, 1083-1093. | 5.1 | 52 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | The asymptotic optimality of discretized linear reward-inaction learning automata. IEEE Transactions on Systems, Man, and Cybernetics, 1984, SMC-14, 542-545. | 0.9 | 50 |
| 20 | Solving Stochastic Nonlinear Resource Allocation Problems Using a Hierarchy of Twofold Resource Allocation Automata. IEEE Transactions on Computers, 2010, 59, 545-560. | 2.4 | 46 |
| 21 | Recognition of Noisy Subsequences Using Constrained Edit Distances. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1987, PAMI-9, 676-685. | 9.7 | 44 |
| 22 | On terrain acquisition by a point robot amidst polyhedral obstacles. IEEE Journal of Robotics and Automation, 1988, 4, 450-455. | 2.2 | 44 |
| 23 | GPSPA: a new adaptive algorithm for maintaining shortest path routing trees in stochastic networks. International Journal of Communication Systems, 2004, 17, 963-984. | 1.6 | 43 |
| 24 | An effective algorithm for string correction using generalized edit distances. Description of the algorithm and its optimality. Information Sciences, 1981, 23, 123-142. | 4.0 | 39 |
| 25 | Service selection in stochastic environments: a learning-automaton based solution. Applied Intelligence, 2012, 36, 617-637. | 3.3 | 39 |
| 26 | Automata learning and intelligent tertiary searching for stochastic point location. IEEE Transactions on Systems, Man, and Cybernetics, 1998, 28, 947-954. | 5.5 | 37 |
| 27 | Solving Multiconstraint Assignment Problems Using Learning Automata. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 6-18. | 5.5 | 37 |
| 28 | Topology-oriented self-organizing maps: a survey. Pattern Analysis and Applications, 2014, 17, 223-248. | 3.1 | 36 |
| 29 | Parameter learning from stochastic teachers and stochastic compulsive liars. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 820-834. | 5.5 | 35 |
| 30 | Modeling a Student's Classroom Interaction in a Tutorial-Like System Using Learning Automata. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 29-42. | 5.5 | 35 |
| 31 | Constrained string editing. Information Sciences, 1986, 40, 267-284. | 4.0 | 33 |
| 32 | List Organizing Strategies Using Stochastic Move-to-Front and Stochastic Move-to-Rear Operations. SIAM Journal on Computing, 1987, 16, 705-716. | 0.8 | 33 |
| 33 | Enhancing Prototype Reduction Schemes With Recursion: A Method Applicable for Large Data Sets. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1384-1397. | 5.5 | 32 |
| 34 | On incorporating the paradigms of discretization and Bayesian estimation to create a new family of pursuit learning automata. Applied Intelligence, 2013, 39, 782-792. | 3.3 | 32 |
| 35 | Spelling correction using probabilistic methods. Pattern Recognition Letters, 1984, 2, 147-154. | 2.6 | 31 |
| 36 | Pattern recognition of strings with substitutions, insertions, deletions and generalized transpositions. Pattern Recognition, 1997, 30, 789-800. | 5.1 | 31 |

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|----|---|-----|-----------|
| 37 | Cybernetics and Learning Automata. , 2009, , 221-235. | | 31 |
| 38 | Anomaly Detection in Dynamic Systems Using Weak Estimators. ACM Transactions on Internet Technology, 2011, 11, 1-16. | 3.0 | 30 |
| 39 | A Novel Strategy for Solving the Stochastic Point Location Problem Using a Hierarchical Searching Scheme. IEEE Transactions on Cybernetics, 2014, 44, 2202-2220. | 6.2 | 29 |
| 40 | Routing Bandwidth-Guaranteed Paths in MPLS Traffic Engineering: A Multiple Race Track Learning Approach. IEEE Transactions on Computers, 2007, 56, 959-976. | 2.4 | 28 |
| 41 | An efficient dynamic algorithm for maintaining all-pairs shortest paths in stochastic networks. IEEE Transactions on Computers, 2006, 55, 686-702. | 2.4 | 27 |
| 42 | Modeling a Student's Behavior in a Tutorial-Like System Using Learning Automata. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 481-492. | 5.5 | 26 |
| 43 | On using prototype reduction schemes to optimize kernel-based nonlinear subspace methods. Pattern Recognition, 2004, 37, 227-239. | 5.1 | 25 |
| 44 | Fault-tolerant routing in adversarial mobile ad hoc networks: an efficient route estimation scheme for non-stationary environments. Telecommunication Systems, 2010, 44, 159-169. | 1.6 | 25 |
| 45 | A Learning Automaton-Based Scheme for Scheduling Domestic Shiftable Loads in Smart Grids. IEEE Access, 2018, 6, 5348-5361. | 2.6 | 24 |
| 46 | An Adaptive Approach to Learning the Preferences of Users in a Social Network Using Weak Estimators. Journal of Information Processing Systems, 2012, 8, 191-212. | 1.0 | 24 |
| 47 | The Noisy Substring Matching Problem. IEEE Transactions on Software Engineering, 1983, SE-9, 365-370. | 4.3 | 23 |
| 48 | A Kohonen-like decomposition method for the euclidean traveling salesman problem - KNIES_DECOMPOSE. IEEE Transactions on Neural Networks, 2003, 14, 869-890. | 4.8 | 23 |
| 49 | On using the chi-squared metric for determining stochastic dependence. Pattern Recognition, 1992, 25, 1389-1400. | 5.1 | 22 |
| 50 | A formal theory for optimal and information theoretic syntactic pattern recognition. Pattern Recognition, 1998, 31, 1159-1177. | 5.1 | 22 |
| 51 | Achieving Microaggregation for Secure Statistical Databases Using Fixed-Structure Partitioning-Based Learning Automata. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 1192-1205. | 5.5 | 22 |
| 52 | The fundamental theory of optimal "Anti-Bayesian" parametric pattern classification using order statistics criteria. Pattern Recognition, 2013, 46, 376-388. | 5.1 | 22 |
| 53 | On using prototype reduction schemes and classifier fusion strategies to optimize kernel-based nonlinear subspace methods. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 455-460. | 9.7 | 21 |
| 54 | Desynchronizing a Chaotic Pattern Recognition Neural Network to Model Inaccurate Perception. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 692-704. | 5.5 | 21 |

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| 55 | On using prototype reduction schemes to optimize dissimilarity-based classification. Pattern Recognition, 2007, 40, 2946-2957. | 5.1 | 21 |
| 56 | Imposing tree-based topologies onto self organizing maps. Information Sciences, 2011, 181, 3798-3815. | 4.0 | 21 |
| 57 | Adaptive structuring of binary search trees using conditional rotations. IEEE Transactions on Knowledge and Data Engineering, 1993, 5, 695-704. | 4.0 | 20 |
| 58 | A Fault-Tolerant Routing Algorithm for Mobile Ad Hoc Networks Using a Stochastic Learning-Based Weak Estimation Procedure. , 0, , . | | 20 |
| 59 | On Using Prototype Reduction Schemes to Optimize Kernel-Based Fisher Discriminant Analysis. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 564-570. | 5.5 | 20 |
| 60 | Learning-Automaton-Based Online Discovery and Tracking of Spatiotemporal Event Patterns. IEEE Transactions on Cybernetics, 2013, 43, 1118-1130. | 6.2 | 20 |
| 61 | Fast Learning Automaton-Based Image Examination and Retrieval. Computer Journal, 1993, 36, 542-553. | 1.5 | 19 |
| 62 | The normalized string editing problem revisited. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996, 18, 669-672. | 9.7 | 19 |
| 63 | String taxonomy using learning automata. IEEE Transactions on Systems, Man, and Cybernetics, 1997, 27, 354-365. | 5.5 | 19 |
| 64 | On optimal pairwise linear classifiers for normal distributions: the two-dimensional case. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2002, 24, 274-280. | 9.7 | 19 |
| 65 | A formal analysis of why heuristic functions work. Artificial Intelligence, 2005, 164, 1-22. | 3.9 | 19 |
| 66 | On utilizing search methods to select subspace dimensions for kernel-based nonlinear subspace classifiers. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 136-141. | 9.7 | 19 |
| 67 | Stochastic Automata-Based Estimators for Adaptively Compressing Files With Nonstationary Distributions. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 1196-1200. | 5.5 | 19 |
| 68 | Goal-oriented optimal subset selection of correlated multimedia streams. ACM Transactions on Multimedia Computing, Communications and Applications, 2007, 3, 2. | 3.0 | 19 |
| 69 | Discretized learning automata solutions to the capacity assignment problem for prioritized networks. IEEE Transactions on Systems, Man, and Cybernetics, 2002, 32, 821-831. | 5.5 | 18 |
| 70 | A Solution to the Stochastic Point Location Problem in Metalevel Nonstationary Environments. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 466-476. | 5.5 | 18 |
| 71 | A survey on statistical disclosure control and micro-aggregation techniques for secure statistical databases. Software - Practice and Experience, 2010, 40, 1161-1188. | 2.5 | 18 |
| 72 | Multiaction learning automata possessing ergodicity of the mean. Information Sciences, 1985, 35, 183-198. | 4.0 | 17 |

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|----|--|-----|-----------|
| 73 | A Learning Automaton Solution to the Stochastic Minimum-Spanning Circle Problem. IEEE Transactions on Systems, Man, and Cybernetics, 1986, 16, 598-603. | 0.9 | 17 |
| 74 | An adaptive learning solution to the keyboard optimization problem. IEEE Transactions on Systems, Man, and Cybernetics, 1991, 21, 1608-1618. | 0.9 | 17 |
| 75 | Moment-preserving piecewise linear approximations of signals and images. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1997, 19, 84-91. | 9.7 | 17 |
| 76 | Optimal sampling for estimation with constrained resources using a learning automaton-based solution for the nonlinear fractional knapsack problem. Applied Intelligence, 2010, 33, 3-20. | 3.3 | 17 |
| 77 | A User-Centric Approach for Personalized Service Provisioning in Pervasive Environments. Wireless Personal Communications, 2011, 61, 543-566. | 1.8 | 17 |
| 78 | A common basis for similarity measures involving two strings. International Journal of Computer Mathematics, 1983, 13, 17-40. | 1.0 | 16 |
| 79 | Fast, efficient and accurate solutions to the Hamiltonian path problem using neural approaches. Computers and Operations Research, 2000, 27, 461-494. | 2.4 | 16 |
| 80 | Fast object partitioning using Stochastic learning automata. , 1987, , . | | 15 |
| 81 | Using Stochastic AI Techniques to Achieve Unbounded Resolution in Finite Player Goore Games and its Applications. , 2007, , . | | 15 |
| 82 | Discretized Bayesian Pursuit " A New Scheme for Reinforcement Learning. Lecture Notes in Computer Science, 2012, , 784-793. | 1.0 | 15 |
| 83 | On achieving semi-supervised pattern recognition by utilizing tree-based SOMs. Pattern Recognition, 2013, 46, 293-304. | 5.1 | 15 |
| 84 | Modeling the "Learning Process" of the Teacher in a Tutorial-Like System Using Learning Automata. IEEE Transactions on Cybernetics, 2013, 43, 2020-2031. | 6.2 | 15 |
| 85 | Logistic Neural Networks: Their chaotic and pattern recognition properties. Neurocomputing, 2014, 125, 184-194. | 3.5 | 15 |
| 86 | "Anti-Bayesian" parametric pattern classification using order statistics criteria for some members of the exponential family. Pattern Recognition, 2014, 47, 40-55. | 5.1 | 15 |
| 87 | Breaking substitution cyphers using stochastic automata. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1993, 15, 185-192. | 9.7 | 14 |
| 88 | Periodicity and stability issues of a chaotic pattern recognition neural network. Pattern Analysis and Applications, 2007, 10, 175-188. | 3.1 | 14 |
| 89 | An efficient pursuit automata approach for estimating stable all-pairs shortest paths in stochastic network environments. International Journal of Communication Systems, 2009, 22, 441-468. | 1.6 | 14 |
| 90 | A formal proof of the $\hat{\mu}$ -optimality of absorbing continuous pursuit algorithms using the theory of regular functions. Applied Intelligence, 2014, 41, 974-985. | 3.3 | 14 |

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|-----|---|-----|-----------|
| 91 | A Fixed Structure Learning Automaton Micro-aggregation Technique for Secure Statistical Databases. Lecture Notes in Computer Science, 2006, , 114-128. | 1.0 | 14 |
| 92 | An Efficient Geometric Solution to the Minimum Spanning Circle Problem. Operations Research, 1987, 35, 80-86. | 1.2 | 13 |
| 93 | The Efficiency of Histogram-like Techniques for Database Query Optimization. Computer Journal, 2002, 45, 494-510. | 1.5 | 13 |
| 94 | A fast and efficient nearly-optimal adaptive Fano coding scheme. Information Sciences, 2006, 176, 1656-1683. | 4.0 | 13 |
| 95 | On using prototype reduction schemes to enhance the computation of volume-based inter-class overlap measures. Pattern Recognition, 2009, 42, 2695-2704. | 5.1 | 13 |
| 96 | Recent advances in Learning Automata systems. , 2010, , . | | 13 |
| 97 | Order statistics-based parametric classification for multi-dimensional distributions. Pattern Recognition, 2013, 46, 3472-3482. | 5.1 | 13 |
| 98 | Learning automata processing ergodicity of the mean: The two-action case. IEEE Transactions on Systems, Man, and Cybernetics, 1983, SMC-13, 1143-1148. | 0.9 | 12 |
| 99 | Deterministic optimal and expedient move-to-rear list organizing strategies. Theoretical Computer Science, 1990, 74, 183-197. | 0.5 | 12 |
| 100 | Case Based Measles Surveillance in Pune: Evidence to Guide Current and Future Measles Control and Elimination Efforts in India. PLoS ONE, 2014, 9, e108786. | 1.1 | 12 |
| 101 | Optimizing channel selection for cognitive radio networks using a distributed Bayesian learning automata-based approach. Applied Intelligence, 2016, 44, 307-321. | 3.3 | 12 |
| 102 | A novel abstraction for swarm intelligence: particle field optimization. Autonomous Agents and Multi-Agent Systems, 2017, 31, 362-385. | 1.3 | 12 |
| 103 | On optimizing firewall performance in dynamic networks by invoking a novel <i>swapping window</i>-based paradigm. International Journal of Communication Systems, 2018, 31, e3773. | 1.6 | 12 |
| 104 | The Hierarchical Continuous Pursuit Learning Automation: A Novel Scheme for Environments With Large Numbers of Actions. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 512-526. | 7.2 | 12 |
| 105 | The Bayesian Pursuit Algorithm: A New Family of Estimator Learning Automata. Lecture Notes in Computer Science, 2011, , 522-531. | 1.0 | 12 |
| 106 | An effective algorithm for string correction using generalized edit distanceâ€”II. Computational complexity of the algorithm and some applications. Information Sciences, 1981, 23, 201-217. | 4.0 | 11 |
| 107 | A Geometrical Approach to Polygonal Dissimilarity and Shape Matching. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1982, PAMI-4, 649-654. | 9.7 | 11 |
| 108 | String alignment with substitution, insertion, deletion, squashing, and expansion operations. Information Sciences, 1995, 83, 89-107. | 4.0 | 11 |

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| 109 | Spikes annihilation in the Hodgkin-Huxley neuron. <i>Biological Cybernetics</i> , 2008, 98, 239-257. | 0.6 | 11 |
| 110 | Stochastic discretized learning-based weak estimation: a novel estimation method for non-stationary environments. <i>Pattern Recognition</i> , 2016, 60, 430-443. | 5.1 | 11 |
| 111 | A Conclusive Analysis of the Finite-Time Behavior of the Discretized Pursuit Learning Automaton. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 284-294. | 7.2 | 11 |
| 112 | Trajectory Planning of Robot Manipulators in Noisy Work Spaces Using Stochastic Automata. <i>International Journal of Robotics Research</i> , 1991, 10, 135-148. | 5.8 | 10 |
| 113 | Adaptive learning mechanisms for ordering actions using random races. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1993, 23, 1450-1465. | 0.9 | 10 |
| 114 | A nearly-optimal Fano-based coding algorithm. <i>Information Processing and Management</i> , 2004, 40, 257-268. | 5.4 | 10 |
| 115 | Novel Discretized Weak Estimators Based on the Principles of the Stochastic Search on the Line Problem. <i>IEEE Transactions on Cybernetics</i> , 2016, 46, 2732-2744. | 6.2 | 10 |
| 116 | On achieving intelligent traffic-aware consolidation of virtual machines in a data center using Learning Automata. <i>Journal of Computational Science</i> , 2018, 24, 290-312. | 1.5 | 10 |
| 117 | Ergodic Learning Automata Capable of Incorporating a Priori Information. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1987, 17, 717-723. | 0.9 | 9 |
| 118 | Numerical similarity and dissimilarity measures between two trees. <i>IEEE Transactions on Computers</i> , 1996, 45, 1426-1434. | 2.4 | 9 |
| 119 | On optimal pairwise linear classifiers for normal distributions: the d-dimensional case. <i>Pattern Recognition</i> , 2003, 36, 13-23. | 5.1 | 9 |
| 120 | Adachi-Like Chaotic Neural Networks Requiring Linear-Time Computations by Enforcing a Tree-Shaped Topology. <i>IEEE Transactions on Neural Networks</i> , 2009, 20, 1797-1809. | 4.8 | 9 |
| 121 | Multi-class pairwise linear dimensionality reduction using heteroscedastic schemes. <i>Pattern Recognition</i> , 2010, 43, 2456-2465. | 5.1 | 9 |
| 122 | Learning automata-based solutions to the optimal web polling problem modelled as a nonlinear fractional knapsack problem. <i>Engineering Applications of Artificial Intelligence</i> , 2011, 24, 1238-1251. | 4.3 | 9 |
| 123 | On Enhancing Recent Multi-player Game Playing Strategies Using a Spectrum of Adaptive Data Structures. , 2013, , . | | 9 |
| 124 | Self-organizing maps whose topologies can be learned with adaptive binary search trees using conditional rotations. <i>Pattern Recognition</i> , 2014, 47, 96-113. | 5.1 | 9 |
| 125 | On the classification of dynamical data streams using novel "Anti-Bayesian" techniques. <i>Pattern Recognition</i> , 2018, 76, 108-124. | 5.1 | 9 |
| 126 | Scale Preserving Smoothing of Polygons. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1983, PAMI-5, 667-671. | 9.7 | 8 |

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|-----|---|-----|-----------|
| 127 | Similarity measures for sets of strings. International Journal of Computer Mathematics, 1983, 13, 95-104. | 1.0 | 8 |
| 128 | Use of amniotic membrane in dermatology. Indian Journal of Dermatology, Venereology and Leprology, 2010, 76, 196. | 0.2 | 8 |
| 129 | Achieving Intelligent Traffic-Aware Consolidation of Virtual Machines in a Data Center Using Learning Automata. , 2016, , . | | 8 |
| 130 | Dynamic Ordering of Firewall Rules Using a Novel Swapping Window-based Paradigm. , 2016, , . | | 8 |
| 131 | On Solving the Problem of Identifying Unreliable Sensors Without a Knowledge of the Ground Truth: The Case of Stochastic Environments. IEEE Transactions on Cybernetics, 2017, 47, 1604-1617. | 6.2 | 8 |
| 132 | On enhancing the object migration automaton using the Pursuit paradigm. Journal of Computational Science, 2018, 24, 329-342. | 1.5 | 8 |
| 133 | Dictionary-Based Syntactic Pattern Recognition Using Tries. Lecture Notes in Computer Science, 2004, , 251-259. | 1.0 | 8 |
| 134 | Chaotic Pattern Recognition: The Spectrum of Properties of the Adachi Neural Network. Lecture Notes in Computer Science, 2008, , 540-550. | 1.0 | 8 |
| 135 | On Generating Random Permutations with Arbitrary Distributions. Computer Journal, 1990, 33, 368-374. | 1.5 | 7 |
| 136 | Vector Quantization for Arbitrary Distance Function Estimation. INFORMS Journal on Computing, 1997, 9, 439-451. | 1.0 | 7 |
| 137 | A formal approach to using data distributions for building causal polytree structures. Information Sciences, 2004, 168, 111-132. | 4.0 | 7 |
| 138 | A Novel Framework for Self-Organizing Lists in Environments with Locality of Reference: Lists-on-Lists. Computer Journal, 2007, 50, 186-196. | 1.5 | 7 |
| 139 | A formal proof of the μ -optimality of discretized pursuit algorithms. Applied Intelligence, 2016, 44, 282-294. | 3.3 | 7 |
| 140 | The design of absorbing Bayesian pursuit algorithms and the formal analyses of their μ -optimality. Pattern Analysis and Applications, 2017, 20, 797-808. | 3.1 | 7 |
| 141 | On Optimizing the k-Ward Micro-aggregation Technique for Secure Statistical Databases. Lecture Notes in Computer Science, 2006, , 324-335. | 1.0 | 7 |
| 142 | On Allocating Limited Sampling Resources Using a Learning Automata-based Solution to the Fractional Knapsack Problem. , 2006, , 263-272. | | 7 |
| 143 | A New Family of Weak Estimators for Training in Non-stationary Distributions. Lecture Notes in Computer Science, 2004, , 644-652. | 1.0 | 7 |
| 144 | On Using Learning Automata to Model a Student's Behavior in a Tutorial-like System. , 2007, , 813-822. | | 7 |

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|-----|--|-----|-----------|
| 145 | Determining stochastic dependence for normally distributed vectors using the chi-squared metric. Pattern Recognition, 1993, 26, 975-987. | 5.1 | 6 |
| 146 | Discrete vector quantization for arbitrary distance function estimation. IEEE Transactions on Systems, Man, and Cybernetics, 1998, 28, 496-510. | 5.5 | 6 |
| 147 | Determining Optimal Polling Frequency Using a Learning Automata-based Solution to the Fractional Knapsack Problem. , 2006, , . | | 6 |
| 148 | On optimizing syntactic pattern recognition using tries and AI-based heuristic-search strategies. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 611-622. | 5.5 | 6 |
| 149 | Breadth-first search strategies for trie-based syntactic pattern recognition. Pattern Analysis and Applications, 2007, 10, 1-13. | 3.1 | 6 |
| 150 | On Utilizing Association and Interaction Concepts for Enhancing Microaggregation in Secure Statistical Databases. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 198-207. | 5.5 | 6 |
| 151 | Large-scale neuro-modeling for understanding and explaining some brain-related chaotic behavior. Simulation, 2012, 88, 1316-1337. | 1.1 | 6 |
| 152 | On utilizing dependence-based information to enhance micro-aggregation for secure statistical databases. Pattern Analysis and Applications, 2013, 16, 99-116. | 3.1 | 6 |
| 153 | On Distinguishing between Reliable and Unreliable Sensors Without a Knowledge of the Ground Truth. , 2015, , . | | 6 |
| 154 | On Invoking Transitivity to Enhance the <i>Pursuit</i>-Oriented Object Migration Automata. IEEE Access, 2018, 6, 21668-21681. | 2.6 | 6 |
| 155 | Enhancing History-Based Move Ordering in Game Playing Using Adaptive Data Structures. Lecture Notes in Computer Science, 2015, , 225-235. | 1.0 | 6 |
| 156 | A Novel Method for Micro-Aggregation in Secure Statistical Databases Using Association and Interaction. Lecture Notes in Computer Science, 2007, , 126-140. | 1.0 | 6 |
| 157 | On Using Adaptive Binary Search Trees to Enhance Self Organizing Maps. Lecture Notes in Computer Science, 2009, , 199-209. | 1.0 | 6 |
| 158 | A Stochastic Search on the Line-Based Solution to Discretized Estimation. Lecture Notes in Computer Science, 2012, , 764-773. | 1.0 | 6 |
| 159 | Optimal "Anti-Bayesian" Parametric Pattern Classification Using Order Statistics Criteria. Lecture Notes in Computer Science, 2012, , 1-13. | 1.0 | 6 |
| 160 | A Novel Border Identification Algorithm Based on an "Anti-Bayesian" Paradigm. Lecture Notes in Computer Science, 2013, , 196-203. | 1.0 | 6 |
| 161 | A Novel Multidimensional Scaling Technique for Mapping Word-Of-Mouth Discussions. Studies in Computational Intelligence, 2009, , 317-322. | 0.7 | 6 |
| 162 | Language Detection and Tracking in Multilingual Documents Using Weak Estimators. Lecture Notes in Computer Science, 2010, , 600-609. | 1.0 | 6 |

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| 163 | On the problem of translating an elliptic object through a workspace of elliptic obstacles. <i>Robotica</i> , 1987, 5, 187-196. | 1.3 | 5 |
| 164 | Mixture decomposition for distributions from the exponential family using a generalized method of moments. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1995, 25, 1139-1149. | 0.9 | 5 |
| 165 | Designing syntactic pattern classifiers using vector quantization and parametric string editing. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1999, 29, 881-888. | 5.5 | 5 |
| 166 | On the pattern recognition of noisy subsequence trees. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2001, 23, 929-946. | 9.7 | 5 |
| 167 | Self-Adjusting of Ternary Search Tries Using Conditional Rotations and Randomized Heuristics. <i>Computer Journal</i> , 2005, 48, 200-219. | 1.5 | 5 |
| 168 | A novel look-ahead optimization strategy for trie-based approximate string matching. <i>Pattern Analysis and Applications</i> , 2006, 9, 177-187. | 3.1 | 5 |
| 169 | Estimation of distributions involving unobservable events: the case of optimal search with unknown Target Distributions. <i>Pattern Analysis and Applications</i> , 2009, 12, 37-53. | 3.1 | 5 |
| 170 | Learning Automata Based Intelligent Tutorial-like System. <i>Lecture Notes in Computer Science</i> , 2009, , 360-373. | 1.0 | 5 |
| 171 | A novel Stochastic Discretized Weak Estimator operating in non-stationary environments. , 2012, , . | | 5 |
| 172 | THE USE OF WEAK ESTIMATORS TO ACHIEVE LANGUAGE DETECTION AND TRACKING IN MULTILINGUAL DOCUMENTS. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2013, 27, 1350011. | 0.7 | 5 |
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