Ajith Abraham

List of Publications by Citations

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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.

809 papers	15,750 citations	58 h-index	101 g-index
926 ext. papers	18,928 ext. citations	2.8 avg, IF	7.31 L-index

#	Paper	IF	Citations
809	Differential Evolution Using a Neighborhood-Based Mutation Operator. *IEEE Transactions on Evolutionary Computation*, **2009**, 13, 526-553	15.6	812
808	Automatic Clustering Using an Improved Differential Evolution Algorithm. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2008**, 38, 218-237		496
807	A hybrid genetic algorithm and bacterial foraging approach for global optimization. *Information Sciences*, **2007**, 177, 3918-3937	7.7	300
806	Feature deduction and ensemble design of intrusion detection systems. *Computers and Security*, **2005**, 24, 295-307	4.9	300
805	Metaheuristic design of feedforward neural networks: A review of two decades of research. *Engineering Applications of Artificial Intelligence*, **2017**, 60, 97-116	7.2	239
804	Modeling intrusion detection system using hybrid intelligent systems. *Journal of Network and Computer Applications*, **2007**, 30, 114-132	7.9	239
803	Intrusion detection using an ensemble of intelligent paradigms. *Journal of Network and Computer Applications*, **2005**, 28, 167-182	7.9	223
802	Design of fractional-order PID controllers with an improved differential evolution. *Engineering Applications of Artificial Intelligence*, **2009**, 22, 343-350	7.2	211
801	Computational models and heuristic methods for Grid scheduling problems. *Future Generation Computer Systems*, **2010**, 26, 608-621	7.5	201
800	Industry 4.0: A bibliometric analysis and detailed overview. *Engineering Applications of Artificial Intelligence*, **2019**, 78, 218-235	7.2	200
799	Time-series forecasting using flexible neural tree model. *Information Sciences*, **2005**, 174, 219-235	7.7	196
798	Fuzzy C-means and fuzzy swarm for fuzzy clustering problem. *Expert Systems With Applications*, **2011**, 38, 1835-1838	7.8	181
797	Particle swarm optimization: Hybridization perspectives and experimental illustrations. *Applied Mathematics and Computation*, **2011**, 217, 5208-5226	2.7	179
796	Exploratory power of the harmony search algorithm: analysis and improvements for global numerical optimization. *IEEE Transactions on Systems, Man, and Cybernetics*, **2011**, 41, 89-106		177
795	. *IEEE Transactions on Evolutionary Computation*, **2009**, 13, 919-941	15.6	166
794	Particle Swarm Optimization and Differential Evolution Algorithms: Technical Analysis, Applications and Hybridization Perspectives. *Studies in Computational Intelligence*, **2008**, 1-38	0.8	161
793	An ensemble of neural networks for weather forecasting. *Neural Computing and Applications*, **2004**, 13, 112	4.8	149

792	A New Approach for Solving Nonlinear Equations Systems. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2008**, 38, 698-714		147
791	Automatic kernel clustering with a Multi-Elitist Particle Swarm Optimization Algorithm. *Pattern Recognition Letters*, **2008**, 29, 688-699	4.7	141
790	Using heterogeneous wireless sensor networks in a telemonitoring system for healthcare. *IEEE Transactions on Information Technology in Biomedicine*, **2010**, 14, 234-40		136
789	Bacterial Foraging Optimization Algorithm: Theoretical Foundations, Analysis, and Applications. *Studies in Computational Intelligence*, **2009**, 23-55	0.8	133
788	. *IEEE Intelligent Systems*, **2008**, 23, 19-25	4.2	130
787	A Trajectory Tracking Robust Controller of Surface Vessels With Disturbance Uncertainties. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 1511-1518	4.8	128
786	Differential Evolution: A review of more than two decades of research. *Engineering Applications of Artificial Intelligence*, **2020**, 90, 103479	7.2	124
785	Understanding Plagiarism Linguistic Patterns, Textual Features, and Detection Methods. *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, **2012**, 42, 133-149		118
784	Scheduling jobs on computational grids using a fuzzy particle swarm optimization algorithm. *Future Generation Computer Systems*, **2010**, 26, 1336-1343	7.5	118
783	Hybrid learning machines. *Neurocomputing*, **2009**, 72, 2729-2730	5.4	109
782	Cooperative game theoretic approach using fuzzy Q-learning for detecting and preventing intrusions in wireless sensor networks. *Engineering Applications of Artificial Intelligence*, **2014**, 32, 228-241	7.2	106
781	An Improved Harmony Search Algorithm with Differential Mutation Operator. *Fundamenta Informaticae*, **2009**, 95, 401-426	1	101
780	Automatic Design of Hierarchical TakagiSugeno Type Fuzzy Systems Using Evolutionary Algorithms. *IEEE Transactions on Fuzzy Systems*, **2007**, 15, 385-397	8.3	101
779	Adaptation of Fuzzy Inference System Using Neural Learning. *Studies in Fuzziness and Soft Computing*, **2005**, 53-83	0.7	100
778	Dynamic multi-objective optimization based on membrane computing for control of time-varying unstable plants. *Information Sciences*, **2011**, 181, 2370-2391	7.7	99
777	Rough sets and near sets in medical imaging: a review. *IEEE Transactions on Information Technology in Biomedicine*, **2009**, 13, 955-68		98
776	Synergy of PSO and Bacterial Foraging Optimization A Comparative Study on Numerical Benchmarks. *Advances in Intelligent and Soft Computing*, **2007**, 255-263		95
775	Swarm Intelligence: Foundations, Perspectives and Applications **2006**, 3-25		94

774	The urgent need for integrated science to fight COVID-19 pandemic and beyond. *Journal of Translational Medicine*, **2020**, 18, 205	8.5	92
773	A neuro-fuzzy approach for modelling electricity demand in Victoria. *Applied Soft Computing Journal*, **2001**, 1, 127-138	7.5	91
772	A survey on region based image fusion methods. *Information Fusion*, **2019**, 48, 119-132	16.7	89
771	Meta learning evolutionary artificial neural networks. *Neurocomputing*, **2004**, 56, 1-38	5.4	89
770	D-SCIDS: Distributed soft computing intrusion detection system. *Journal of Network and Computer Applications*, **2007**, 30, 81-98	7.9	88
769	Hybrid flexible neural-tree-based intrusion detection systems. *International Journal of Intelligent Systems*, **2007**, 22, 337-352	8.4	86
768	Hybrid Evolutionary Algorithms: Methodologies, Architectures, and Reviews. *Studies in Computational Intelligence*, **2007**, 1-17	0.8	84
767	Geometrically invariant image watermarking using Polar Harmonic Transforms. *Information Sciences* , **2012**, 199, 1-19	7.7	83
766	Flexible neural trees ensemble for stock index modeling. *Neurocomputing*, **2007**, 70, 697-703	5.4	81
765	A Hybrid Intelligent Approach for Network Intrusion Detection. *Procedia Engineering*, **2012**, 30, 1-9		79
764	Artificial bee colony algorithm for small signal model parameter extraction of MESFET. *Engineering Applications of Artificial Intelligence*, **2010**, 23, 689-694	7.2	77
763	Data gravitation based classification. *Information Sciences*, **2009**, 179, 809-819	7.7	76
762	Chaotic dynamic characteristics in swarm intelligence. *Applied Soft Computing Journal*, **2007**, 7, 1019-1026	7.5	75
761	A fuzzy adaptive turbulent particle swarm optimisation. *International Journal of Innovative Computing and Applications*, **2007**, 1, 39	0.4	74
760	Feature selection and classification using flexible neural tree. *Neurocomputing*, **2006**, 70, 305-313	5.4	73
759	Neuro Fuzzy Systems: State-of-the-Art Modeling Techniques. *Lecture Notes in Computer Science*, **2001**, 269-276	0.9	71
758	An auction method for resource allocation in computational grids. *Future Generation Computer Systems*, **2010**, 26, 228-235	7.5	69
757	Swarm Intelligence Algorithms for Data Clustering **2008**, 279-313		69

756	Applying wearable solutions in dependent environments. *IEEE Transactions on Information Technology in Biomedicine*, **2010**, 14, 1459-67		66
755	On convergence of the multi-objective particle swarm optimizers. *Information Sciences*, **2011**, 181, 1411-1425	7.7	61
754	Agents and ambient intelligence: case studies. *Journal of Ambient Intelligence and Humanized Computing*, **2010**, 1, 85-93	3.7	61
753	An adaptive PID neural network for complex nonlinear system control. *Neurocomputing*, **2014**, 135, 79-85	5.4	58
752	Design of intelligent PID/PID speed controller for chopper fed DC motor drive using opposition based artificial bee colony algorithm. *Engineering Applications of Artificial Intelligence*, **2014**, 29, 13-32	7.2	57
751	On Stability of the Chemotactic Dynamics in Bacterial-Foraging Optimization Algorithm. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2009**, 39, 670-679		57
750	A comparative study of the improvement of performance using a PSO modified by ACO applied to TSP. *Applied Soft Computing Journal*, **2014**, 25, 234-241	7.5	56
749	Intelligent Systems. *Intelligent Systems Reference Library*, **2011**,	0.8	56
748	Hybrid Differential Artificial Bee Colony Algorithm. *Journal of Computational and Theoretical Nanoscience*, **2012**, 9, 249-257	0.3	56
747	Swarm scheduling approaches for work-flow applications with security constraints in distributed data-intensive computing environments. *Information Sciences*, **2012**, 192, 228-243	7.7	55
746	On stability and convergence of the population-dynamics in differential evolution. *AI Communications*, **2009**, 22, 1-20	0.8	54
745	Automatic circle detection on digital images with an adaptive bacterial foraging algorithm. *Soft Computing*, **2010**, 14, 1151-1164	3.5	54
744	An efficient algorithm for incremental mining of temporal association rules. *Data and Knowledge Engineering*, **2010**, 69, 800-815	1.5	54
743	Hybrid Intelligent Systems for Stock Market Analysis. *Lecture Notes in Computer Science*, **2001**, 337-345	0.9	54
742	Optimal breast cancer classification using Gauss Newton representation based algorithm. *Expert Systems With Applications*, **2017**, 85, 134-145	7.8	52
741	MESFET DC model parameter extraction using Quantum Particle Swarm Optimization. *Microelectronics Reliability*, **2009**, 49, 660-666	1.2	49
740	An integrated sustainable medical supply chain network during COVID-19. *Engineering Applications of Artificial Intelligence*, **2021**, 100, 104188	7.2	49
739	Adaptive dynamic surface control with Nussbaum gain for course-keeping of ships. *Engineering Applications of Artificial Intelligence*, **2014**, 27, 236-240	7.2	48

738	Evolutionary static and dynamic clustering algorithms based on multi-verse optimizer. *Engineering Applications of Artificial Intelligence*, **2018**, 72, 54-66	7.2	45
737	Intelligent web traffic mining and analysis. *Journal of Network and Computer Applications*, **2005**, 28, 147-165	7.9	45
736	Swarm Intelligence in Data Mining. *Studies in Computational Intelligence*, **2006**, 1-20	0.8	44
735	BULLET: Particle Swarm Optimization Based Scheduling Technique for Provisioned Cloud Resources. *Journal of Network and Systems Management*, **2018**, 26, 361-400	2.1	44
734	Discriminative multinomial Naïve Bayes for network intrusion detection **2010**,		43
733	Web usage mining using artificial ant colony clustering and linear genetic programming		43
732	Nonlinear multiscale Maximal Lyapunov Exponent for accurate myoelectric signal classification. *Applied Soft Computing Journal*, **2015**, 36, 633-640	7.5	42
731	Comparison of Heuristics for Scheduling Independent Tasks on Heterogeneous Distributed Environments **2009**,		42
730	State-of-the-Art Methods for Brain Tissue Segmentation: A Review. *IEEE Reviews in Biomedical Engineering*, **2017**, 10, 235-249	6.4	41
729	An efficient meta-heuristic algorithm for grid computing. *Journal of Combinatorial Optimization*, **2015**, 30, 413-434	0.9	41
728	Engineering applications of artificial intelligence: A bibliometric analysis of 30 years (1988–2018). *Engineering Applications of Artificial Intelligence*, **2019**, 85, 517-532	7.2	41
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726	Adapt-Traf: An adaptive multiagent road traffic management system based on hybrid ant-hierarchical fuzzy model. *Transportation Research Part C: Emerging Technologies*, **2014**, 42, 147-167	8.4	39
725	A hybrid learning algorithm for evolving Flexible Beta Basis Function Neural Tree Model. *Neurocomputing*, **2013**, 117, 107-117	5.4	39
724	MOVIH-IDS: A mobile-visualization hybrid intrusion detection system. *Neurocomputing*, **2009**, 72, 2775-2784	5.4	39
723	Recent trends in intelligent data analysis. *Neurocomputing*, **2014**, 126, 1-2	5.4	38
722	Fuzzy classification by evolutionary algorithms **2011**,		38
721	DE-PSO: A NEW HYBRID META-HEURISTIC FOR SOLVING GLOBAL OPTIMIZATION PROBLEMS. *New Mathematics and Natural Computation*, **2011**, 07, 363-381	0.6	38

720	New mutation schemes for differential evolution algorithm and their application to the optimization of directional over-current relay settings. *Applied Mathematics and Computation*, **2010**, 216, 532-544	2.7	38
719	A wrapper-filter feature selection technique based on ant colony optimization. *Neural Computing and Applications*, **2020**, 32, 7839-7857	4.8	38
718	Neural network and fuzzy system for the tuning of Gravitational Search Algorithm parameters. *Expert Systems With Applications*, **2018**, 102, 234-244	7.8	35
717	An evolutionary gray gradient algorithm for multilevel thresholding of brain MR images using soft computing techniques. *Applied Soft Computing Journal*, **2017**, 50, 94-108	7.5	35
716	Multi-objective differential evolution for automatic clustering with application to micro-array data analysis. *Sensors*, **2009**, 9, 3981-4004	3.8	35
715	Spiking neural network and wavelets for hiding iris data in digital images. *Soft Computing*, **2009**, 13, 401-416	3.5	35
714	Adaptive neuro-fuzzy intrusion detection systems **2004**,		35
713	Unconventional initialization methods for differential evolution. *Applied Mathematics and Computation*, **2013**, 219, 4474-4494	2.7	34
712	Meta-heuristics for Grid Scheduling Problems. *Studies in Computational Intelligence*, **2008**, 1-37	0.8	34
711	Business Intelligence from Web Usage Mining. *Journal of Information and Knowledge Management*, **2003**, 02, 375-390	0.9	34
710	Deep learning in electrical utility industry: A comprehensive review of a decade of research. *Engineering Applications of Artificial Intelligence*, **2020**, 96, 104000	7.2	34
709	Heuristic design of fuzzy inference systems: A review of three decades of research. *Engineering Applications of Artificial Intelligence*, **2019**, 85, 845-864	7.2	33
708	Hybrid Job Scheduling Algorithm for Cloud Computing Environment. *Advances in Intelligent Systems and Computing*, **2014**, 43-52	0.4	33
707	Inter-particle communication and search-dynamics of lbest particle swarm optimizers: An analysis. *Information Sciences*, **2012**, 182, 156-168	7.7	33
706	Time-series forecasting using a system of ordinary differential equations. *Information Sciences*, **2011**, 181, 106-114	7.7	33
705	A modified Invasive Weed Optimization algorithm for time-modulated linear antenna array synthesis **2010**,		33
704	Scheduling Jobs on Computational Grids Using Fuzzy Particle Swarm Algorithm. *Lecture Notes in Computer Science*, **2006**, 500-507	0.9	33
703	Stock Market Forecasting Using LASSO Linear Regression Model. *Advances in Intelligent Systems and Computing*, **2015**, 371-381	0.4	32

702	Stability analysis of the reproduction operator in bacterial foraging optimization. *Theoretical Computer Science*, **2010**, 411, 2127-2139	1.1	32
701	Ideology algorithm: a socio-inspired optimization methodology. *Neural Computing and Applications*, **2017**, 28, 845-876	4.8	31
700	A Beta basis function Interval Type-2 Fuzzy Neural Network for time series applications. *Engineering Applications of Artificial Intelligence*, **2018**, 71, 259-274	7.2	31
699	Improved vehicle positioning algorithm using enhanced innovation-based adaptive Kalman filter. *Pervasive and Mobile Computing*, **2017**, 40, 139-155	3.5	31
698	SHOMAS: Intelligent guidance and suggestions in shopping centres. *Applied Soft Computing Journal* , **2009**, 9, 851-862	7.5	31
697	Automated clustering of trajectory data using a particle swarm optimization. *Computers, Environment and Urban Systems*, **2016**, 55, 55-65	5.9	30
696	Population-variance and explorative power of Harmony Search: An analysis **2008**,		30
695	Stochastic Vehicle Routing Problem: A Literature Survey. *Journal of Information and Knowledge Management*, **2014**, 13, 1450022	0.9	29
694	A Profile Based Network Intrusion Detection and Prevention System for Securing Cloud Environment. *International Journal of Distributed Sensor Networks*, **2013**, 9, 364575	1.7	29
693	DIPKIP: A CONNECTIONIST KNOWLEDGE MANAGEMENT SYSTEM TO IDENTIFY KNOWLEDGE DEFICITS IN PRACTICAL CASES. *Computational Intelligence*, **2010**, 26, 26-56	2.5	29
692	Variable Neighborhood Particle Swarm Optimization for Multi-objective Flexible Job-Shop Scheduling Problems. *Lecture Notes in Computer Science*, **2006**, 197-204	0.9	29
691	Evolutionary Multiobjective Optimization **2005**, 1-6		29
690	Hybrid meta-heuristic algorithms for a supply chain network considering different carbon emission regulations using big data characteristics. *Soft Computing*, **2021**, 25, 7527-7557	3.5	29
689	A new efficient approach for solving the capacitated Vehicle Routing Problem using the Gravitational Emulation Local Search Algorithm. *Applied Mathematical Modelling*, **2017**, 49, 663-679	4.5	28
688	A self adaptive harmony search based functional link higher order ANN for non-linear data classification. *Neurocomputing*, **2016**, 179, 69-87	5.4	28
687	Negotiation mechanism for self-organized scheduling system with collective intelligence. *Neurocomputing*, **2014**, 132, 97-110	5.4	28
686	Hierarchical multi-dimensional differential evolution for the design of beta basis function neural network. *Neurocomputing*, **2012**, 97, 131-140	5.4	28
685	A new weighted rough set framework based classification for Egyptian NeoNatal Jaundice. *Applied Soft Computing Journal*, **2012**, 12, 999-1005	7.5	28

684	A Novel Particle Swarm Optimization Approach for Grid Job Scheduling. *Communications in Computer and Information Science*, **2009**, 100-109	0.3	28
683	Weather analysis using ensemble of connectionist learning paradigms. *Applied Soft Computing Journal*, **2007**, 7, 995-1004	7.5	28
682	Intrusion Detection Using Ensemble of Soft Computing Paradigms **2003**, 239-248		28
681	Optimal job scheduling in grid computing using efficient binary artificial bee colony optimization. *Soft Computing*, **2013**, 17, 867-882	3.5	27
680	Fuzzy clustering using hybrid fuzzy c-means and fuzzy particle swarm optimization **2009**,		27
679	A closed loop stability analysis and parameter selection of the Particle Swarm Optimization dynamics for faster convergence **2007**,		27
678	Document Clustering Using Differential Evolution		27
677	Modeling Intrusion Detection Systems Using Linear Genetic Programming Approach. *Lecture Notes in Computer Science*, **2004**, 633-642	0.9	27
676	Digital watermarking with improved SMS applied for QR code. *Engineering Applications of Artificial Intelligence*, **2021**, 97, 104049	7.2	27
675	An evolutionary single Gabor kernel based filter approach to face recognition. *Engineering Applications of Artificial Intelligence*, **2017**, 62, 286-301	7.2	26
674	Orthogonal Taguchi-based cat algorithm for solving task scheduling problem in cloud computing. *Neural Computing and Applications*, **2018**, 30, 1845-1863	4.8	26
673	Improvement of neural network classifier using floating centroids. *Knowledge and Information Systems*, **2012**, 31, 433-454	2.4	26
672	Artificial immune system inspired behavior-based anti-spam filter. *Soft Computing*, **2007**, 11, 729-740	3.5	26
671	A novel global optimization technique for high dimensional functions. *International Journal of Intelligent Systems*, **2009**, 24, 421-440	8.4	25
670	A Bacterial Evolutionary Algorithm for automatic data clustering **2009**,		25
669	Tuning Struggle Strategy in Genetic Algorithms for Scheduling in Computational Grids **2008**,		25
668	Improved Particle Swarm Optimization with low-discrepancy sequences **2008**,		25
667	Significance of steganography on data security **2004**,		25

666	Fuzzy logic-based FMEA robust design: a quantitative approach for robustness against groupthink in group/team decision-making. *International Journal of Production Research*, **2019**, 57, 1331-1344	7.8	24
665	Cohort Intelligence: A Socio-inspired Optimization Method. *Intelligent Systems Reference Library*, **2017**,	0.8	24
664	The Technological Growth in eHealth Services. *Computational and Mathematical Methods in Medicine*, **2015**, 2015, 894171	2.8	24
663	Optimal gain tuning of PI speed controller in induction motor drives using particle swarm optimization. *Logic Journal of the IGPL*, **2011**, 19, 343-356	1	24
662	Machine intelligence-based algorithms for spam filtering on document labeling. *Soft Computing*, **2020**, 24, 9625-9638	3.5	24
661	An efficient and distributed file search in unstructured peer-to-peer networks. *Peer-to-Peer Networking and Applications*, **2015**, 8, 120-136	3.1	23
660	Online hybrid traffic classifier for Peer-to-Peer systems based on network processors. *Applied Soft Computing Journal*, **2009**, 9, 685-694	7.5	23
659	Inertia-Adaptive Particle Swarm Optimizer for Improved Global Search **2008**,		23
658	A Novel Type-2 Fuzzy C-Means Clustering for Brain MR Image Segmentation. *IEEE Transactions on Cybernetics*, **2021**, 51, 3901-3912	10.2	22
657	An improved dynamic deployment technique based-on genetic algorithm (IDDT-GA) for maximizing coverage in wireless sensor networks. *Journal of Ambient Intelligence and Humanized Computing*, **2020**, 11, 4177-4194	3.7	22
656	Security and service assurance issues in Cloud environment. *International Journal of Systems Assurance Engineering and Management*, **2018**, 9, 194-207	1.3	22
655	Nested cross-validation based adaptive sparse representation algorithm and its application to pathological brain classification. *Expert Systems With Applications*, **2018**, 114, 313-321	7.8	22
654	A hyper-heuristic approach for resource provisioning-based scheduling in grid environment. *Journal of Supercomputing*, **2015**, 71, 1427-1450	2.5	22
653	Levy mutated Artificial Bee Colony algorithm for global optimization **2011**,		22
652	SVM-based soccer video summarization system **2011**,		22
651	**2008**,		22
650	Nature Inspired Meta-heuristics for Grid Scheduling: Single and Multi-objective Optimization Approaches. *Studies in Computational Intelligence*, **2008**, 247-272	0.8	22
649	A Modified Invasive Weed Optimization Algorithm for training of feed- forward Neural Networks **2010**,		21

648	Many-threaded implementation of differential evolution for the CUDA platform **2011**,		21
647	Particle Swarm Optimization Using Adaptive Mutation **2008**,		21
646	A New PSO Algorithm with Crossover Operator for Global Optimization Problems. *Advances in Intelligent and Soft Computing*, **2007**, 215-222		21
645	A GA(TS) Hybrid Algorithm for Scheduling in Computational Grids. *Lecture Notes in Computer Science*, **2009**, 285-292	0.9	21
644	A biobjective home health care logistics considering the working time and route balancing: a self-adaptive social engineering optimizer. *Journal of Computational Design and Engineering*, **2021**, 8, 452-474	4.6	21
643	Modified Social Group Optimization meta-heuristic algorithm to solve short-term hydrothermal scheduling. *Applied Soft Computing Journal*, **2020**, 95, 106524	7.5	21
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636	Artificial bee colony with enhanced food locations for solving mechanical engineering design problems. *Journal of Ambient Intelligence and Humanized Computing*, **2020**, 11, 267-290	3.7	20
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634	Selection scheme sensitivity for a hybrid Salp Swarm Algorithm: analysis and applications. *Engineering With Computers*, **2020**, 1	4.5	19
633	An adaptive Harris hawks optimization technique for two dimensional grey gradient based multilevel image thresholding. *Applied Soft Computing Journal*, **2020**, 95, 106526	7.5	19
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631	Hybrid intelligent systems for detecting network intrusions. *Security and Communication Networks*, **2015**, 8, 2741-2749	1.9	19

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629	A novel interdependence based multilevel thresholding technique using adaptive equilibrium optimizer. *Engineering Applications of Artificial Intelligence*, **2020**, 94, 103836	7.2	19
628	Hybrid chemical reaction based metaheuristic with fuzzy c-means algorithm for optimal cluster analysis. *Expert Systems With Applications*, **2017**, 79, 282-295	7.8	18
627	A novel joint histogram equalization based image contrast enhancement. *Journal of King Saud University - Computer and Information Sciences*, **2019**,	2.5	18
626	A Scientometric Study of Neurocomputing Publications (1992–2018): An Aerial Overview of Intrinsic Structure. *Publications*, **2018**, 6, 32	1.7	18
625	A human–computer cooperative particle swarm optimization based immune algorithm for layout design. *Neurocomputing*, **2014**, 132, 68-78	5.4	18
624	The multi-objective hybridization of particle swarm optimization and fuzzy ant colony optimization. *Journal of Intelligent and Fuzzy Systems*, **2014**, 27, 515-525	1.6	18
623	An improved Multiobjective Evolutionary Algorithm based on decomposition with fuzzy dominance **2011**,		18
622	Social and swarm aspects of co-authorship network. *Logic Journal of the IGPL*, **2012**, 20, 634-643	1	18
621	Metaheuristic Pattern Clustering – An Overview. *Studies in Computational Intelligence*, **2009**, 1-62	0.8	18
620	Hybrid Differential Evolution - Particle Swarm Optimization Algorithm for Solving Global Optimization Problems **2008**,		18
619	IDEAS: intrusion detection based on emotional ants for sensors **2005**,		18
618	Particle Swarm Optimization: Performance Tuning and Empirical Analysis. *Studies in Computational Intelligence*, **2009**, 101-128	0.8	18
617	Elitist Teaching Learning Opposition based algorithm for global optimization **2012**,		17
616	Mixed Mutation Strategy Embedded Differential Evolution **2009**,		17
615	Automatic Hard Clustering Using Improved Differential Evolution Algorithm. *Studies in Computational Intelligence*, **2009**, 137-174	0.8	17
614	Adaptive Computational Chemotaxis in Bacterial Foraging Algorithm **2008**,		17
613	DIPS: A Framework for Distributed Intrusion Prediction and Prevention Using Hidden Markov Models and Online Fuzzy Risk Assessment **2007**,		17

612	Spatial Information Based Image Segmentation Using a Modified Particle Swarm Optimization Algorithm **2006**,		17
611	A comparative study of fuzzy classification methods on breast cancer data. *Australasian Physical and Engineering Sciences in Medicine*, **2004**, 27, 213-8	1.9	17
610	Texture classification based on DCT and soft computing		17
609	Implementation of a New Hybrid Methodology for Fault Signal Classification Using Short -Time Fourier Transform and Support Vector Machines. *Advances in Intelligent and Soft Computing*, **2010**, 219-225		17
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607	**2015**,		16
606	Decentralized Longitudinal Tracking Control for Cooperative Adaptive Cruise Control Systems in a Platoon **2013**,		16
605	Social Network Reduction Based on Stability **2010**,		16
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