

Oscar Castillo

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5929820/oscar-castillo-publications-by-year.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

863
papers

14,767
citations

66
h-index

99
g-index

1,009
ext. papers

17,079
ext. citations

2
avg, IF

7.53
L-index

#	Paper	IF	Citations
863	A New Cuckoo Search Algorithm Using Interval Type-2 Fuzzy Logic for Dynamic Parameter Adaptation. <i>Lecture Notes in Networks and Systems</i> , 2022 , 853-860	0.5	0
862	Optimal Fuzzy Controller Design for Autonomous Robot Path Tracking Using Population-Based Metaheuristics. <i>Symmetry</i> , 2022 , 14, 202	2.7	4
861	A Deep-learned Type-3 Fuzzy System and Its Application in Modeling Problems. <i>Acta Polytechnica Hungarica</i> , 2022 , 19, 151-172	2.2	5
860	Simulation Results. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2022 , 29-65	0.4	
859	String Theory Algorithm. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2022 , 11-27	0.4	0
858	Analysis of Cotton Yarn Count by Fuzzy Logic Model. <i>Algorithms for Intelligent Systems</i> , 2022 , 349-361	0.5	
857	Convolutional Neural Network Design Using a Particle Swarm Optimization for Face Recognition. <i>Lecture Notes in Networks and Systems</i> , 2022 , 233-242	0.5	0
856	Type-2 Fuzzy Logic Systems. <i>Studies in Fuzziness and Soft Computing</i> , 2022 , 5-11	0.7	1
855	Introduction to Interval Type-3 Fuzzy Systems. <i>Studies in Fuzziness and Soft Computing</i> , 2022 , 1-4	0.7	2
854	Interval Type-3 Fuzzy Sets. <i>Studies in Fuzziness and Soft Computing</i> , 2022 , 13-43	0.7	0
853	A Review on the Role of Computational Intelligence on Sustainability Development. <i>Studies in Computational Intelligence</i> , 2022 , 3-18	0.8	
852	Generalized Type-2 Fuzzy Parameter Adaptation in the Marine Predator Algorithm for Fuzzy Controller Parameterization in Mobile Robots. <i>Symmetry</i> , 2022 , 14, 859	2.7	3
851	Interval Type-3 Fuzzy Aggregation of Neural Networks for Multiple Time Series Prediction: The Case of Financial Forecasting. <i>Axioms</i> , 2022 , 11, 251	1.6	0
850	Fuzzy-Chaotic Variant of the Multiverse Optimizer Algorithm in Benchmark Function Optimization. <i>Lecture Notes in Networks and Systems</i> , 2022 , 53-63	0.5	
849	Mixing Population-Based Metaheuristics: An Approach Based on a Distributed-Queue for the Optimal Design of Fuzzy Controllers. <i>Lecture Notes in Networks and Systems</i> , 2022 , 839-846	0.5	
848	Stabilization of a Fuzzy Controller Using an Interval Type-2 Fuzzy System Designed with the Bee Colony Optimization Algorithm. <i>Lecture Notes in Networks and Systems</i> , 2022 , 713-721	0.5	
847	Parameter Adaptation in Harmony Search with Shadowed Type-2 Fuzzy Approach for Designing Optimized Interval Type-2 Fuzzy Controllers. <i>Lecture Notes in Networks and Systems</i> , 2022 , 730-738	0.5	

846	Interval Type-3 Fuzzy Aggregators for Ensembles of Neural Networks in Time Series Prediction. <i>Lecture Notes in Networks and Systems</i> , 2022 , 785-793	0.5	0
845	Interval Type-2 Fuzzy Dynamic Parameter Adaptation in Bee Colony Optimization for Autonomous Mobile Robot Navigation. <i>Studies in Fuzziness and Soft Computing</i> , 2021 , 45-62	0.7	1
844	Optimization of Fuzzy Logic Controllers with Distributed Bio-Inspired Algorithms. <i>Studies in Computational Intelligence</i> , 2021 , 1-11	0.8	3
843	Optimization of Fuzzy Controllers for Autonomous Mobile Robots Using the Stochastic Fractal Search Method. <i>Studies in Computational Intelligence</i> , 2021 , 175-188	0.8	
842	Review of Fuzzy Control for Path Tracking in the Robotino System. <i>Studies in Computational Intelligence</i> , 2021 , 205-215	0.8	
841	Optimal Design of Fuzzy Logic Systems Through a Chicken Search Optimization Algorithm Applied to a Benchmark Problem. <i>Studies in Computational Intelligence</i> , 2021 , 229-247	0.8	3
840	Optimization of Fuzzy Trajectory Tracking in Autonomous Mobile Robots Based on Bio-inspired Algorithms. <i>Studies in Computational Intelligence</i> , 2021 , 249-271	0.8	2
839	Optimization of Fuzzy Systems Through Metaheuristics in Control Systems. <i>Studies in Computational Intelligence</i> , 2021 , 299-313	0.8	
838	A Comparative Study of the Grey Wolf Optimizer and Firefly Algorithm in Mathematical Benchmark Functions of the CEC 15 Competition. <i>Studies in Computational Intelligence</i> , 2021 , 163-174	0.8	0
837	Fuzzy Logic Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2021 , 5-8	0.4	1
836	Differential Evolution Algorithm. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2021 , 9-12	0.4	
835	Proposed Method. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2021 , 13-15	0.4	
834	Frequency Regulation System: A Deep Learning Identification, Type-3 Fuzzy Control and LMI Stability Analysis. <i>Energies</i> , 2021 , 14, 7801	3.1	0
833	Shadowed Type-2 Fuzzy Systems for Dynamic Parameter Adaptation in Harmony Search and Differential Evolution for Optimal Design of Fuzzy Controllers. <i>Mathematics</i> , 2021 , 9, 2439	2.3	2
832	Optimization of Type-2 and Intuitionistic Fuzzy Systems in Intelligent Control. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 292-300	0.4	1
831	Comparison of Neural Network Models Applied to Human Recognition. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 130-142	0.4	1
830	Fuzzy Dynamic Parameter Adaptation for Particle Swarm Optimization of Modular Granular Neural Networks Applied to Time Series Prediction. <i>Studies in Computational Intelligence</i> , 2021 , 189-204	0.8	1
829	Optimal Design of Interval Type-2 Fuzzy Tracking Controllers of Mobile Robots Using a Metaheuristic Algorithm. <i>Studies in Computational Intelligence</i> , 2021 , 315-341	0.8	3

828	A Novel Study of the Multi-verse Optimizer and Its Applications on Multiple Areas of Computer Science. <i>Studies in Computational Intelligence</i> , 2021 , 133-144	0.8	3
827	Best fit membership function for designing fuzzy logic controller aided intelligent overcurrent fault protection scheme. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e12875	2.2	1
826	Special Issue on Intelligent Biomedical Data Analysis and Processing. <i>Intelligent Decision Technologies</i> , 2021 , 15, 13-17	0.7	
825	An Efficient Chicken Search Optimization Algorithm for the Optimal Design of Fuzzy Controllers. <i>Axioms</i> , 2021 , 10, 30	1.6	5
824	A New Approach for Dynamic Stochastic Fractal Search with Fuzzy Logic for Parameter Adaptation. <i>Fractal and Fractional</i> , 2021 , 5, 33	3	2
823	Bio-Inspired Algorithms and Its Applications for Optimization in Fuzzy Clustering. <i>Algorithms</i> , 2021 , 14, 122	1.8	14
822	High-Speed Interval Type-2 Fuzzy Systems for Dynamic Parameter Adaptation in Harmony Search for Optimal Design of Fuzzy Controllers. <i>Mathematics</i> , 2021 , 9, 758	2.3	8
821	A Novel Fractional-Order Multiple-Model Type-3 Fuzzy Control for Nonlinear Systems with Unmodeled Dynamics. <i>International Journal of Fuzzy Systems</i> , 2021 , 23, 1633	3.6	20
820	Editorial on Special Issue: "Trends and Developments on Type-2 Fuzzy Sets and Systems" <i>International Journal of Fuzzy Systems</i> , 2021 , 23, 1055-1056	3.6	
819	Type-2 intuitionistic fuzzy matrix games based on a new distance measure: Application to biogas-plant implementation problem. <i>Applied Soft Computing Journal</i> , 2021 , 106, 107357	7.5	17
818	Inventory of a deteriorating green product with preservation technology cost using a hybrid algorithm. <i>Soft Computing</i> , 2021 , 25, 11621-11636	3.5	1
817	Differential Evolution Algorithm with Type-2 Fuzzy Logic for Dynamic Parameter Adaptation with Application to Intelligent Control. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2021 ,	0.4	5
816	Optimization of Type-2 Fuzzy Logic Controller Design Using the GSO and FA Algorithms. <i>International Journal of Fuzzy Systems</i> , 2021 , 23, 42-57	3.6	30
815	Joint set-up of parameters in genetic algorithms and the artificial bee colony algorithm: an approach for cultivation process modelling. <i>Soft Computing</i> , 2021 , 25, 2015-2038	3.5	6
814	Control Strategies Based on Interval Type-2 Fuzzy Logic for Autonomous Mobile and Humanoid Robots. <i>Studies in Systems, Decision and Control</i> , 2021 , 221-236	0.8	1
813	Gradient Stabilization of Infinite Dimensional Bilinear Systems. <i>Studies in Systems, Decision and Control</i> , 2021 , 251-288	0.8	
812	Stabilization of Infinite Dimensional Linear Systems. <i>Studies in Systems, Decision and Control</i> , 2021 , 11-38	0.8	
811	Regional Stabilization of Infinite Dimensional Linear Systems. <i>Studies in Systems, Decision and Control</i> , 2021 , 73-110	0.8	

810	GPU Accelerated Membrane Evolutionary Artificial Potential Field for Mobile Robot Path Planning. <i>Studies in Computational Intelligence</i> , 2021 , 233-247	0.8	0
809	A Review on the Cuckoo Search Algorithm. <i>Studies in Computational Intelligence</i> , 2021 , 113-124	0.8	1
808	Regional Gradient Stabilization of Infinite Dimensional Semilinear Systems. <i>Studies in Systems, Decision and Control</i> , 2021 , 289-306	0.8	0
807	Optimization using the firefly algorithm of ensemble neural networks with type-2 fuzzy integration for COVID-19 time series prediction. <i>Soft Computing</i> , 2021 , 1-38	3.5	7
806	Proposed Methodology. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2021 , 29-62	0.4	
805	Gradient Stabilization of Infinite Dimensional Linear Systems. <i>Studies in Systems, Decision and Control</i> , 2021 , 213-228	0.8	
804	Stochastic Fractal Dynamic Search for the Optimization of CEC2017 Benchmark Functions. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 349-357	0.4	
803	Beam and Ball Plant System Controlling Using Intuitionistic Fuzzy Control. <i>IFIP Advances in Information and Communication Technology</i> , 2021 , 255-262	0.5	
802	Regional Gradient Stabilization of Infinite Dimensional Linear Systems. <i>Studies in Systems, Decision and Control</i> , 2021 , 229-249	0.8	
801	Comparative Study of Conventional and Interval Type-2 Fuzzy Logic Controllers for Velocity Regulation in Lego Mindstorms Ev3 Humanoids. <i>Studies in Systems, Decision and Control</i> , 2021 , 201-219	0.8	1
800	Regional Stabilization of Infinite Dimensional Semilinear Systems. <i>Studies in Systems, Decision and Control</i> , 2021 , 137-157	0.8	
799	Review of Hybrid Combinations of Metaheuristics for Problem Solving Optimization. <i>Studies in Computational Intelligence</i> , 2021 , 221-232	0.8	
798	Experimental Results. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2021 , 63-72	0.4	
797	Background and Theory. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2021 , 5-28	0.4	0
796	An Efficient High-Order \mathbb{H} -Plane Aggregation in General Type-2 Fuzzy Systems Using Newton's Rules. <i>International Journal of Fuzzy Systems</i> , 2021 , 23, 1102-1121	3.6	4
795	A Novel Method for a COVID-19 Classification of Countries Based on an Intelligent Fuzzy Fractal Approach. <i>Healthcare (Switzerland)</i> , 2021 , 9,	3.4	24
794	Optimization of a fuzzy controller for autonomous robot navigation using a new competitive multi-metaheuristic model. <i>Soft Computing</i> , 2021 , 25, 11653-11672	3.5	5
793	Spatial and Temporal Spread of the COVID-19 Pandemic Using Self Organizing Neural Networks and a Fuzzy Fractal Approach. <i>Sustainability</i> , 2021 , 13, 8295	3.6	5

792	Fuzzy logic research work in Mexico motivated by Lotfi Zadeh. <i>Notes on Intuitionistic Fuzzy Sets</i> , 2021 , 27, 1-10	1.4	3
791	Differential Evolution with Shadowed and General Type-2 Fuzzy Systems for Dynamic Parameter Adaptation in Optimal Design of Fuzzy Controllers. <i>Axioms</i> , 2021 , 10, 194	1.6	4
790	A new meta-heuristic optimization algorithm based on a paradigm from physics: string theory. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021 , 41, 1657-1675	1.6	2
789	Modeling assumptions, optimal control strategies and mitigation through vaccination to Zika virus. <i>Chaos, Solitons and Fractals</i> , 2021 , 150, 111137	9.3	4
788	GPU-Accelerated implementation of a genetically optimized image encryption algorithm. <i>Soft Computing</i> , 2021 , 1-16	3.5	0
787	A new fuzzy fractal control approach of non-linear dynamic systems: The case of controlling the COVID-19 pandemics. <i>Chaos, Solitons and Fractals</i> , 2021 , 151, 111250	9.3	4
786	Towards asymmetric uncertainty modeling in designing General Type-2 Fuzzy classifiers for medical diagnosis. <i>Expert Systems With Applications</i> , 2021 , 183, 115370	7.8	12
785	Unsupervised Deep Learning based Variational Autoencoder Model for COVID-19 Diagnosis and Classification. <i>Pattern Recognition Letters</i> , 2021 , 151, 267-274	4.7	12
784	Implementation and Evaluation of the Controllers. <i>Studies in Fuzziness and Soft Computing</i> , 2021 , 101-123.7		
783	Optimization of Membership Function Parameters for Fuzzy Controllers in Cruise Control Problem Using the Multi-verse Optimizer. <i>Studies in Computational Intelligence</i> , 2021 , 15-40	0.8	1
782	Output Stabilization of Infinite Dimensional Semilinear Systems. <i>Studies in Systems, Decision and Control</i> , 2021 , 159-183	0.8	
781	Stabilization of Infinite Dimensional Second Order Semilinear Systems. <i>Studies in Systems, Decision and Control</i> , 2021 , 185-212	0.8	
780	Using Fuzzy Inference Systems for the Creation of Forex Market Predictive Models. <i>IEEE Access</i> , 2021 , 9, 69391-69404	3.5	3
779	Regional Stabilization of Infinite Dimensional Bilinear Systems. <i>Studies in Systems, Decision and Control</i> , 2021 , 111-136	0.8	
778	Optimal Design of Fuzzy Controllers Using the Multiverse Optimizer. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 289-298	0.4	3
777	Stabilization of Infinite Dimensional Semilinear Systems. <i>Studies in Systems, Decision and Control</i> , 2021 , 39-72	0.8	
776	A New Approach for an Intuitionistic Fuzzy Sugeno Integral Using Morphological Gradient Edge Detector. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 26-45	0.4	
775	A survey of Type-2 fuzzy logic controller design using nature inspired optimization. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 39, 6169-6179	1.6	8

774	An approach for non-singleton generalized Type-2 Fuzzy classifiers. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 39, 7203-7215	1.6	4
773	Multimodal human eye blink recognition method using feature level fusion for exigency detection. <i>Soft Computing</i> , 2020 , 24, 16829-16845	3.5	6
772	Fuzzy Logic in Dynamic Parameter Adaptation of Harmony Search Optimization for Benchmark Functions and Fuzzy Controllers. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 1198-1211	3.6	20
771	Designing hybrid classifiers based on general type-2 fuzzy logic and support vector machines. <i>Soft Computing</i> , 2020 , 24, 18009-18019	3.5	4
770	Analysis of Spatial Spread Relationships of Coronavirus (COVID-19) Pandemic in the World using Self Organizing Maps. <i>Chaos, Solitons and Fractals</i> , 2020 , 138, 109917	9.3	74
769	Intuitionistic Fuzzy Sliding Controller for Uncertain Hyperchaotic Synchronization. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 1430-1443	3.6	14
768	Multiple Ensemble Neural Network Models with Fuzzy Response Aggregation for Predicting COVID-19 Time Series: The Case of Mexico. <i>Healthcare (Switzerland)</i> , 2020 , 8,	3.4	88
767	Comparative study of interval Type-2 and general Type-2 fuzzy systems in medical diagnosis. <i>Information Sciences</i> , 2020 , 525, 37-53	7.7	52
766	Global Path Planning and Path-Following for Wheeled Mobile Robot Using a Novel Control Structure Based on a Vision Sensor. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 1880-1891	3.6	13
765	Generalized type-2 fuzzy logic in galactic swarm optimization: design of an optimal ball and beam fuzzy controller. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 39, 3545-3559	1.6	5
764	Comparison of particle swarm optimization variants with fuzzy dynamic parameter adaptation for modular granular neural networks for human recognition. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 38, 3229-3252	1.6	43
763	Learning rules for Sugeno ANFIS with parametric conjunction operations. <i>Applied Soft Computing Journal</i> , 2020 , 89, 106095	7.5	9
762	Fuzzy Parameter Adaptation in Genetic Algorithms for the Optimization of Fuzzy Integrators in Modular Neural Networks for Multimodal Biometry. <i>Computacion Y Sistemas</i> , 2020 , 24,	1.4	5
761	Development of a Java Library to Solve the School Bus Routing Problem. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 175-196	0.6	
760	Introduction to Fuzzy Harmony Search. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020 , 1-4	0.4	2
759	Proposed Fuzzy Harmony Search Method. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020 , 9-11	0.4	
758	The Differential Evolution Algorithm with a Fuzzy Logic Approach for Dynamic Parameter Adjustment Using Benchmark Functions. <i>Studies in Computational Intelligence</i> , 2020 , 169-179	0.8	2
757	Implementation a Fuzzy System for Trajectory Tracking of an Omnidirectional Mobile Autonomous Robot. <i>Studies in Computational Intelligence</i> , 2020 , 327-340	0.8	1

756	Study of the Relevance of Polynomial Order in Takagi-Sugeno Fuzzy Inference Systems Applied in Diagnosis Problems. <i>Studies in Computational Intelligence</i> , 2020 , 19-33	0.8	
755	Harmony Search with Dynamic Adaptation of Parameters for the Optimization of a Benchmark Set of Functions. <i>Studies in Computational Intelligence</i> , 2020 , 97-108	0.8	3
754	Adaptation of Parameters with Binary Cat Swarm Optimization Algorithm of Controller for a Mobile Autonomous Robot. <i>Studies in Computational Intelligence</i> , 2020 , 35-46	0.8	
753	Type-2 Fuzzy Logic for Dynamic Parameter Adaptation in the Imperialist Competitive Algorithm. <i>Studies in Computational Intelligence</i> , 2020 , 109-118	0.8	2
752	Fuzzy Flower Pollination Algorithm to Solve Control Problems. <i>Studies in Computational Intelligence</i> , 2020 , 119-154	0.8	5
751	Modular granular neural network optimization using the firefly algorithm applied to time series prediction 2020 , 199-216		3
750	Omnidirectional Four Wheel Mobile Robot Control with a Type-2 Fuzzy Logic Behavior-Based Strategy. <i>Studies in Computational Intelligence</i> , 2020 , 49-62	0.8	1
749	Chemical Reaction Algorithm to Control Problems. <i>Studies in Computational Intelligence</i> , 2020 , 185-193	0.8	
748	Evaluation of Parallel Exploration and Exploitation Capabilities in Two PSO Variants with Intra Communication. <i>Studies in Computational Intelligence</i> , 2020 , 169-184	0.8	1
747	Analysis of P, PI, Fuzzy and Fuzzy PI Controllers for Control Position in Omnidirectional Robots. <i>Studies in Computational Intelligence</i> , 2020 , 339-353	0.8	0
746	Theory of the Original Harmony Search Method. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020 , 5-7	0.4	
745	Constrained Real-Parameter Optimization Using the Firefly Algorithm and the Grey Wolf Optimizer. <i>Studies in Computational Intelligence</i> , 2020 , 155-167	0.8	5
744	Environment Recognition for Path Generation in Autonomous Mobile Robots. <i>Studies in Computational Intelligence</i> , 2020 , 273-288	0.8	1
743	Optimization of Fuzzy Controllers for Autonomous Mobile Robots Using the Grey Wolf Optimizer. <i>Studies in Computational Intelligence</i> , 2020 , 289-299	0.8	4
742	Towards a Control Strategy Based on Type-2 Fuzzy Logic for an Autonomous Mobile Robot. <i>Studies in Computational Intelligence</i> , 2020 , 301-314	0.8	7
741	Implementation of a Fuzzy Controller for an Autonomous Mobile Robot in the PIC18F4550 Microcontroller. <i>Studies in Computational Intelligence</i> , 2020 , 315-325	0.8	2
740	Comparison of Fuzzy Controller Optimization with Dynamic Parameter Adjustment Based on of Type-1 and Type-2 Fuzzy Logic. <i>Studies in Computational Intelligence</i> , 2020 , 47-56	0.8	7
739	Parameter Adaptation in the Imperialist Competitive Algorithm Using Generalized Type-2 Fuzzy Logic. <i>Studies in Computational Intelligence</i> , 2020 , 3-10	0.8	3

738	Harmony Search with Dynamic Adaptation of Parameters for the Optimization of a Benchmark Controller. <i>Studies in Computational Intelligence</i> , 2020 , 157-168	0.8	3
737	Towards Tracking Trajectory of Planar Quadrotor Models. <i>Studies in Computational Intelligence</i> , 2020 , 313-323	0.8	1
736	Fuzzy Logic Controller with Fuzzylab Python Library and the Robot Operating System for Autonomous Robot Navigation: A Practical Approach. <i>Studies in Computational Intelligence</i> , 2020 , 355-369	0.8	1
735	Study Cases to Test Fuzzy Harmony Search. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020 , 13-67	0.4	1
734	Fuzzy Galactic Swarm Optimization with Dynamic Adjustment of Parameters Based on Fuzzy Logic. <i>SN Computer Science</i> , 2020 , 1, 1	2	10
733	Design of an interval Type-2 fuzzy model with justifiable uncertainty. <i>Information Sciences</i> , 2020 , 513, 206-221	7.7	47
732	Intuitionistic fuzzy control of twin rotor multiple input multiple output systems. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 38, 821-833	1.6	15
731	A new randomness approach based on sine waves to improve performance in metaheuristic algorithms. <i>Soft Computing</i> , 2020 , 24, 11989-12011	3.5	6
730	A new multi-stable fractional-order four-dimensional system with self-excited and hidden chaotic attractors: Dynamic analysis and adaptive synchronization using a novel fuzzy adaptive sliding mode control method. <i>Applied Soft Computing Journal</i> , 2020 , 87, 105943	7.5	72
729	Finite-interval-valued Type-2 Gaussian fuzzy numbers applied to fuzzy TODIM in a healthcare problem. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 87, 103352	7.2	50
728	Optimal Design of Fuzzy Systems Using Differential Evolution and Harmony Search Algorithms with Dynamic Parameter Adaptation. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6146	2.6	6
727	Forecasting of COVID-19 time series for countries in the world based on a hybrid approach combining the fractal dimension and fuzzy logic. <i>Chaos, Solitons and Fractals</i> , 2020 , 140, 110242	9.3	56
726	A new prediction approach of the COVID-19 virus pandemic behavior with a hybrid ensemble modular nonlinear autoregressive neural network. <i>Soft Computing</i> , 2020 , 1-10	3.5	4
725	Early diagnosis of COVID-19-affected patients based on X-ray and computed tomography images using deep learning algorithm. <i>Soft Computing</i> , 2020 , 1-9	3.5	49
724	A comprehensive review on type 2 fuzzy logic applications: Past, present and future. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 95, 103916	7.2	66
723	Type-2 fuzzy control for line following using line detection images. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 39, 6089-6097	1.6	6
722	Handling data-skewness in character based string similarity join using Hadoop. <i>Applied Computing and Informatics</i> , 2020 , ahead-of-print,	4.2	2
721	A state of the art review of intelligent scheduling. <i>Artificial Intelligence Review</i> , 2020 , 53, 501-593	9.7	30

720	Optimization of fuzzy controller design using a Differential Evolution algorithm with dynamic parameter adaptation based on Type-1 and Interval Type-2 fuzzy systems. <i>Soft Computing</i> , 2020 , 24, 193-214	3.5	32
719	Scientometric inspection of research progression in hesitant fuzzy sets. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 38, 619-626	1.6	6
718	A novel parameter estimation in dynamic model via fuzzy swarm intelligence and chaos theory for faults in wastewater treatment plant. <i>Soft Computing</i> , 2020 , 24, 111-129	3.5	21
717	Nature-Inspired Optimization of Type-2 Fuzzy Logic Controllers. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 4-6	0.4	2
716	Cuckoo search and firefly algorithms in terms of generalized net theory. <i>Soft Computing</i> , 2020 , 24, 4877-4898	3.9	12
715	High-Speed Interval Type-2 Fuzzy System for Dynamic Crossover Parameter Adaptation in Differential Evolution and Its Application to Controller Optimization. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 414-427	3.6	7
714	Synchronization of fractional time-delayed financial system using a novel type-2 fuzzy active control method. <i>Chaos, Solitons and Fractals</i> , 2020 , 136, 109768	9.3	25
713	A high-speed interval type 2 fuzzy system approach for dynamic parameter adaptation in metaheuristics. <i>Engineering Applications of Artificial Intelligence</i> , 2019 , 85, 666-680	7.2	39
712	Comparative Study in Fuzzy Controller Optimization Using Bee Colony, Differential Evolution, and Harmony Search Algorithms. <i>Algorithms</i> , 2019 , 12, 9	1.8	39
711	Type-2 Fuzzy Logic Augmentation of the Imperialist Competitive Algorithm with Dynamic Parameter Adaptation. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 167-176	0.4	
710	Design of Optimal Fuzzy Controllers for Autonomous Mobile Robots Using the Grey Wolf Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 285-295	0.4	1
709	Comparative Study of Fuzzy Controller Optimization with Dynamic Parameter Adjustment Based on Type 1 and Type 2 Fuzzy Logic. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 296-305	0.4	0
708	Firefly Algorithm and Grey Wolf Optimizer for Constrained Real-Parameter Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 531-541	0.4	
707	Dynamic Parameter Adaptation Based on Using Interval Type-2 Fuzzy Logic in Bio-inspired Optimization Methods. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 1-12	0.4	
706	Bio-inspired Optimization of Type-2 Fuzzy Controllers in Autonomous Mobile Robot Navigation. <i>Studies in Systems, Decision and Control</i> , 2019 , 187-200	0.8	3
705	Comparative Analysis of Type-1 Fuzzy Inference Systems with Different Sugeno Polynomial Orders Applied to Diagnosis Problems. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 453-465	0.4	
704	Gaze-Guided Control of an Autonomous Mobile Robot Using Type-2 Fuzzy Logic. <i>Applied System Innovation</i> , 2019 , 2, 14	2.4	3
703	Optimization of Fuzzy Controller Using Galactic Swarm Optimization with Type-2 Fuzzy Dynamic Parameter Adjustment. <i>Axioms</i> , 2019 , 8, 26	1.6	25

702	A New Approach to Multiple Time Series Prediction Using MIMO Fuzzy Aggregation Models with Modular Neural Networks. <i>International Journal of Fuzzy Systems</i> , 2019 , 21, 1629-1648	3.6	39
701	Visual-Servoing Based Global Path Planning Using Interval Type-2 Fuzzy Logic Control. <i>Axioms</i> , 2019 , 8, 58	1.6	16
700	Multi-Metaheuristic Competitive Model for Optimization of Fuzzy Controllers. <i>Algorithms</i> , 2019 , 12, 90	1.8	15
699	Comparative Study of the Conventional Mathematical and Fuzzy Logic Controllers for Velocity Regulation. <i>Axioms</i> , 2019 , 8, 53	1.6	3
698	Designing a general type-2 fuzzy expert system for diagnosis of depression. <i>Applied Soft Computing Journal</i> , 2019 , 80, 329-341	7.5	33
697	A new fuzzy learning vector quantization method for classification problems based on a granular approach. <i>Granular Computing</i> , 2019 , 4, 197-209	5.4	12
696	Optimization of granulation for fuzzy controllers of autonomous mobile robots using the Firefly Algorithm. <i>Granular Computing</i> , 2019 , 4, 185-195	5.4	19
695	Fuzzy Harmony Search Algorithm Using an Interval Type-2 Fuzzy Logic Applied to Benchmark Mathematical Functions. <i>Studies in Computational Intelligence</i> , 2019 , 13-28	0.8	3
694	Interval Type-2 Fuzzy Logic Dynamic Mutation and Crossover Parameter Adaptation in a Fuzzy Differential Evolution Method. <i>Studies in Computational Intelligence</i> , 2019 , 81-94	0.8	3
693	Optimization of fuzzy controllers for autonomous mobile robots using the grey wolf optimizer 2019 ,		6
692	Towards an Adaptive Control Strategy Based on Type-2 Fuzzy Logic for Autonomous Mobile Robots 2019 ,		5
691	An Approach for Optimization of Intuitionistic and Type-2 Fuzzy Systems in Pattern Recognition Applications 2019 ,		1
690	Relevance of Polynomial Order in Takagi-Sugeno Fuzzy Inference Systems Applied in Diagnosis Problems 2019 ,		2
689	Approximation of Intuitionistic Fuzzy Systems for Time Series Analysis in Plant Monitoring and Diagnosis. <i>Studies in Fuzziness and Soft Computing</i> , 2019 , 87-100	0.7	
688	Fuzzy Control for Systems with Dead-Zone and Backlash. <i>Studies in Fuzziness and Soft Computing</i> , 2019 , 55-71	0.7	1
687	Proposed Method. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 , 17-22	0.4	
686	Theory and Background. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 , 5-7	0.4	
685	Optimization of Modular Neural Networks for Pattern Recognition with Parallel Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , 2019 , 223-235	0.9	1

684	Comparative Study of P, PI, Fuzzy and Fuzzy PI Controllers in Position Control for Omnidirectional Robots. <i>Lecture Notes in Computer Science</i> , 2019 , 714-727	0.9	0
683	DIFFERENTIAL EVOLUTION WITH DYNAMIC ADAPTATION OF PARAMETERS BASED ON A FUZZY LOGIC AUGMENTATION APPROACH. <i>Journal of Universal Mathematics</i> , 2019 , 2, 183-207	0.1	
682	Hindi Query Expansion based on Semantic Importance of Hindi WordNet Relations and Fuzzy Graph Connectivity Measures. <i>Computacion Y Sistemas</i> , 2019 , 23,	1.4	2
681	Type-2 Fuzzy Logic in Control of Nonsmooth Systems. <i>Studies in Fuzziness and Soft Computing</i> , 2019 ,	0.7	6
680	PSO with Dynamic Adaptation of Parameters for Optimization in Neural Networks with Interval Type-2 Fuzzy Numbers Weights. <i>Axioms</i> , 2019 , 8, 14	1.6	15
679	A novel multi-objective evolutionary algorithm with fuzzy logic based adaptive selection of operators: FAME. <i>Information Sciences</i> , 2019 , 471, 233-251	7.7	49
678	An approach for parameterized shadowed type-2 fuzzy membership functions applied in control applications. <i>Soft Computing</i> , 2019 , 23, 3887-3901	3.5	44
677	Background on Type-1 and Type-2 Fuzzy Logic. <i>Studies in Fuzziness and Soft Computing</i> , 2019 , 5-19	0.7	2
676	Fuzzy Control Synthesis for Systems with Discontinuous Friction. <i>Studies in Fuzziness and Soft Computing</i> , 2019 , 73-83	0.7	1
675	Fuzzy Control for Wheeled Mobile Robots. <i>Studies in Fuzziness and Soft Computing</i> , 2019 , 85-96	0.7	1
674	Comments on Fuzzy Sets, Interval Type-2 Fuzzy Sets, General Type-2 Fuzzy Sets and Intuitionistic Fuzzy Sets. <i>Studies in Fuzziness and Soft Computing</i> , 2019 , 35-43	0.7	7
673	Special issue on "Type-2 fuzzy systems and granular computing" <i>Granular Computing</i> , 2019 , 4, 143-143	5.4	1
672	Fuzzy Lyapunov Synthesis for Nonsmooth Mechanical Systems. <i>Studies in Fuzziness and Soft Computing</i> , 2019 , 43-54	0.7	
671	Fuzzy Control for Biped Robots Under Impacts. <i>Studies in Fuzziness and Soft Computing</i> , 2019 , 97-120	0.7	
670	Graphical Representation of Intuitionistic Membership Functions for Its Efficient Use in Intuitionistic Fuzzy Systems. <i>Studies in Fuzziness and Soft Computing</i> , 2019 , 239-250	0.7	1
669	Shadowed Type-2 Fuzzy Systems for Dynamic Parameter Adaptation in Harmony Search and Differential Evolution Algorithms. <i>Algorithms</i> , 2019 , 12, 17	1.8	28
668	Self-defense of the Plants. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 , 9-12	0.4	
667	Predator-Prey Model. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 , 13-15	0.4	

666	Framework for Optimization of Intuitionistic and Type-2 Fuzzy Systems in Control Applications. <i>Studies in Fuzziness and Soft Computing</i> , 2019 , 79-86	0.7	2
665	Interval type-2 fuzzy logic for dynamic parameter adaptation in a modified gravitational search algorithm. <i>Information Sciences</i> , 2019 , 476, 159-175	7.7	92
664	Optimization of type-1, interval type-2 and general type-2 fuzzy inference systems using a hierarchical genetic algorithm for modular granular neural networks. <i>Granular Computing</i> , 2019 , 4, 211-236	5.4	9
663	A new approach to control of multivariable systems through a hierarchical aggregation of fuzzy controllers. <i>Granular Computing</i> , 2019 , 4, 1-13	5.4	17
662	Application of Interval Type-2 Fuzzy Logic to polypropylene business policy in a petrochemical plant in India. <i>Journal of the Saudi Society of Agricultural Sciences</i> , 2018 , 17, 24-42	3.3	4
661	A new optimization meta-heuristic algorithm based on self-defense mechanism of the plants with three reproduction operators. <i>Soft Computing</i> , 2018 , 22, 4907-4920	3.5	23
660	New Classification Method Based on Modular Neural Networks with the LVQ Algorithm and Type-2 Fuzzy Logic. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 ,	0.4	2
659	A Comparative Study of Dynamic Adaptation of Parameters in the GWO Algorithm Using Type-1 and Interval Type-2 Fuzzy Logic. <i>Studies in Computational Intelligence</i> , 2018 , 3-16	0.8	4
658	Galactic Swarm Optimization with Adaptation of Parameters Using Fuzzy Logic for the Optimization of Mathematical Functions. <i>Studies in Computational Intelligence</i> , 2018 , 131-140	0.8	8
657	Comparison of Bio-Inspired Methods with Parameter Adaptation Through Interval Type-2 Fuzzy Logic. <i>Studies in Computational Intelligence</i> , 2018 , 39-53	0.8	3
656	Differential Evolution Algorithm with Interval Type-2 Fuzzy Logic for the Optimization of the Mutation Parameter. <i>Studies in Computational Intelligence</i> , 2018 , 55-65	0.8	5
655	Design and Implementation of a Fuzzy Path Optimization System for Omnidirectional Autonomous Mobile Robot Control in Real-Time. <i>Studies in Computational Intelligence</i> , 2018 , 241-252	0.8	8
654	Fuzzy Logic for Inculcating Significance of Semantic Relations in Word Sense Disambiguation Using a WordNet Graph. <i>International Journal of Fuzzy Systems</i> , 2018 , 20, 444-459	3.6	9
653	Path Following Fuzzy System for a Nonholonomic Mobile Robot Based on Frontal Camera Information. <i>Studies in Computational Intelligence</i> , 2018 , 223-240	0.8	2
652	Impact Study of the Footprint of Uncertainty in Control Applications Based on Interval Type-2 Fuzzy Logic Controllers. <i>Studies in Computational Intelligence</i> , 2018 , 181-197	0.8	3
651	Optimization of Membership Function Parameters for Fuzzy Controllers of an Autonomous Mobile Robot Using the Firefly Algorithm. <i>Studies in Computational Intelligence</i> , 2018 , 199-206	0.8	9
650	A New Approach for Time Series Prediction Using Ensembles of IT2FNN Models with Optimization of Fuzzy Integrators. <i>International Journal of Fuzzy Systems</i> , 2018 , 20, 701-728	3.6	45
649	ClusFuDE: Forecasting low dimensional numerical data using an improved method based on automatic clustering, fuzzy relationships and differential evolution. <i>Engineering Applications of Artificial Intelligence</i> , 2018 , 71, 175-189	7.2	31

648	A new fuzzy bee colony optimization with dynamic adaptation of parameters using interval type-2 fuzzy logic for tuning fuzzy controllers. <i>Soft Computing</i> , 2018 , 22, 571-594	3.5	54
647	Comparison of Type-2 Fuzzy Integration for Optimized Modular Neural Networks Applied to Human Recognition. <i>Studies in Systems, Decision and Control</i> , 2018 , 285-302	0.8	
646	A New Approach for Dynamic Mutation Parameter in the Differential Evolution Algorithm Using Fuzzy Logic. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 85-93	0.4	3
645	Study on the Use of Type-1 and Interval Type-2 Fuzzy Systems Applied to Benchmark Functions Using the Fuzzy Harmony Search Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 94-103	0.4	1
644	Fuzzy Adaptation for Particle Swarm Optimization for Modular Neural Networks Applied to Iris Recognition. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 104-114	0.4	2
643	A New Metaheuristic Based on the Self-defense Mechanisms of the Plants with a Fuzzy Approach Applied to the CEC2015 Functions. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 115-121	0.4	
642	Fuzzy Chemical Reaction Algorithm with Dynamic Adaptation of Parameters. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 122-130	0.4	2
641	Methodology for the Optimization of a Fuzzy Controller Using a Bio-inspired Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 131-137	0.4	12
640	How to Gauge the Accuracy of Fuzzy Control Recommendations: A Simple Idea. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 287-292	0.4	
639	Comparative Study of Metrics That Affect in the Performance of the Bee Colony Optimization Algorithm Through Interval Type-2 Fuzzy Logic Systems. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 61-72	0.4	2
638	A generalized type-2 fuzzy logic approach for dynamic parameter adaptation in bee colony optimization applied to fuzzy controller design. <i>Information Sciences</i> , 2018 , 460-461, 476-496	7.7	92
637	Trajectory Optimization for an Autonomous Mobile Robot Using the Bat Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 232-241	0.4	1
636	Particle Swarm Optimization with Fuzzy Dynamic Parameters Adaptation for Modular Granular Neural Networks. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 277-288	0.4	
635	A New Optimization Metaheuristic Based on the Self-defense Techniques of Natural Plants Applied to the CEC 2015 Benchmark Functions. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 380-388	0.4	2
634	A Hybrid Approach for Modular Neural Network Design Using Intercriteria Analysis and Intuitionistic Fuzzy Logic. <i>Complexity</i> , 2018 , 2018, 1-11	1.6	32
633	High order μ planes integration: A new approach to computational cost reduction of General Type-2 Fuzzy Systems. <i>Engineering Applications of Artificial Intelligence</i> , 2018 , 74, 186-197	7.2	93
632	Parameter Optimization for Membership Functions of Type-2 Fuzzy Controllers for Autonomous Mobile Robots Using the Firefly Algorithm. <i>Communications in Computer and Information Science</i> , 2018 , 569-579	0.3	12
631	A New Hybridization Approach between the Fireworks Algorithm and Grey Wolf Optimizer Algorithm. <i>Journal of Optimization</i> , 2018 , 2018, 1-18	0.5	18

630	Fuzzy Dynamic Parameter Adaptation in the Harmony Search Algorithm for the Optimization of the Ball and Beam Controller. <i>Advances in Operations Research</i> , 2018 , 2018, 1-16	1.3	29
629	Optimization of Membership Function Parameters for Fuzzy Controllers of an Autonomous Mobile Robot Using the Flower Pollination Algorithm. <i>Journal of Automation, Mobile Robotics and Intelligent Systems</i> , 2018 , 12, 44-49	1	16
628	An Analytical Insight to Investigate the Research Patterns in the Realm of Type-2 Fuzzy Logic. <i>Journal of Automation, Mobile Robotics and Intelligent Systems</i> , 2018 , 12, 3-32	1	2
627	Problem Statement and Development. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 17-34	0.4	
626	A TakagiSugeno-Kang Fuzzy Model Formalization of Eelgrass Leaf Biomass Allometry with Application to the Estimation of Average Biomass of Leaves in Shoots: Comparing the Reproducibility Strength of the Present Fuzzy and Related Crisp Proxies. <i>Studies in Computational Intelligence</i> , 2018 , 329-362	0.8	
625	Simulation Results. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 33-46	0.4	
624	Problem Statements. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 11-21	0.4	
623	Theory and Background. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 5-27	0.4	
622	Problem Statement. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 29-32	0.4	
621	Differential Evolution Algorithm Using a Dynamic Crossover Parameter with Fuzzy Logic Applied for the CEC 2015 Benchmark Functions. <i>Communications in Computer and Information Science</i> , 2018 , 580-591	0.3	1
620	Money Management for a Foreign Exchange Trading Strategy Using a Fuzzy Inference System. <i>Studies in Computational Intelligence</i> , 2018 , 275-286	0.8	
619	Dynamic Parameter Adaptation Using Interval Type-2 Fuzzy Logic in Bio-Inspired Optimization Methods. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 1-12	0.4	1
618	Proposed Classification Method. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 33-39	0.4	
617	Simulation Results. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 41-54	0.4	
616	Toward General Type-2 Fuzzy Logic Systems Based on Shadowed Sets. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 131-142	0.4	1
615	Comparative Study of Type-1 and Interval Type-2 Fuzzy Systems in the Fuzzy Harmony Search Algorithm Applied to Benchmark Functions. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 162-170	0.4	1
614	A Review of Fuzzy and Mathematic Methods for Dynamic Parameter Adaptation in the Firefly Algorithm. <i>Studies in Computational Intelligence</i> , 2018 , 311-321	0.8	3
613	Dynamic Parameter Adaptation for Meta-Heuristic Optimization Algorithms Through Type-2 Fuzzy Logic. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 ,	0.4	2

612	Theory and Background. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 3-10	0.4	2
611	Improved Method Based on Type-2 Fuzzy Logic for the Adaptive Harmony Search Algorithm. <i>Studies in Computational Intelligence</i> , 2018 , 29-37	0.8	3
610	Statistical Comparison of the Bee Colony Optimization and Fuzzy BCO Algorithms for Fuzzy Controller Design Using Trapezoidals MFs. <i>Studies in Fuzziness and Soft Computing</i> , 2018 , 291-306	0.7	1
609	Performance Evaluation of Optimization Algorithms based on GPU using CUDA Architecture 2018 ,		2
608	On Intuitionistic Fuzzy (mathcal {C})-Ends. <i>Trends in Mathematics</i> , 2018 , 177-184	0.3	
607	A variant to the dynamic adaptation of parameters in galactic swarm optimization using a fuzzy logic augmentation 2018 ,		8
606	Fuzzy Galactic Swarm Optimization with Dynamic Adjustment of Parameters Based on Fuzzy Logic. <i>Journal of Peridynamics and Nonlocal Modeling</i> , 2018 , 1, 1	2.1	1
605	A Fuzzy Harmony Search Algorithm for the Optimization of a Benchmark Set of Functions. <i>Lecture Notes in Computer Science</i> , 2018 , 401-412	0.9	
604	Differential Evolution Algorithm Using a Dynamic Crossover Parameter with High-Speed Interval Type 2 Fuzzy System. <i>Lecture Notes in Computer Science</i> , 2018 , 369-378	0.9	2
603	A New Method for Parameterization of General Type-2 Fuzzy Sets. <i>Fuzzy Information and Engineering</i> , 2018 , 10, 31-57	0.5	11
602	Fuzzy Dynamic Adaptation of Gap Generation and Mutation in Genetic Optimization of Type 2 Fuzzy Controllers. <i>Advances in Operations Research</i> , 2018 , 2018, 1-13	1.3	17
601	Bio-inspired Optimization Metaheuristic Algorithm Based on the Self-defense of the Plants. <i>Studies in Fuzziness and Soft Computing</i> , 2018 , 111-121	0.7	
600	Interval Type II Fuzzy Rough Set Rule Based Expert System to Diagnose Chronic Kidney Disease. <i>Communications in Computer and Information Science</i> , 2018 , 559-568	0.3	1
599	Fuzzy rule-based models with interactive rules and their granular generalization. <i>Fuzzy Sets and Systems</i> , 2017 , 307, 1-28	3.7	25
598	A fuzzy hierarchical operator in the grey wolf optimizer algorithm. <i>Applied Soft Computing Journal</i> , 2017 , 57, 315-328	7.5	131
597	Optimization of Type-2 Fuzzy Controllers Using the Bee Colony Algorithm. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 ,	0.4	3
596	Modification of the Bat Algorithm Using Type-2 Fuzzy Logic for Dynamical Parameter Adaptation. <i>Studies in Computational Intelligence</i> , 2017 , 343-355	0.8	16
595	Gravitational Search Algorithm with Parameter Adaptation Through a Fuzzy Logic System. <i>Studies in Computational Intelligence</i> , 2017 , 391-405	0.8	1

594	Ant colony optimization with dynamic parameter adaptation based on interval type-2 fuzzy logic systems. <i>Applied Soft Computing Journal</i> , 2017 , 53, 74-87	7.5	123
593	Optimization Mathematical Functions for Multiple Variables Using the Algorithm of Self-defense of the Plants. <i>Studies in Computational Intelligence</i> , 2017 , 631-640	0.8	7
592	Interval type-2 fuzzy logic for dynamic parameter adaptation in the bat algorithm. <i>Soft Computing</i> , 2017 , 21, 667-685	3.5	36
591	Interval Type-2 Fuzzy Possibilistic C-Means Optimization Using Particle Swarm Optimization. <i>Studies in Computational Intelligence</i> , 2017 , 63-78	0.8	4
590	Particle Swarm Optimization of the Fuzzy Integrators for Time Series Prediction Using Ensemble of IT2FNN Architectures. <i>Studies in Computational Intelligence</i> , 2017 , 141-158	0.8	6
589	Imperialist Competitive Algorithm with Dynamic Parameter Adaptation Applied to the Optimization of Mathematical Functions. <i>Studies in Computational Intelligence</i> , 2017 , 329-341	0.8	8
588	Differential Evolution Using Fuzzy Logic and a Comparative Study with Other Metaheuristics. <i>Studies in Computational Intelligence</i> , 2017 , 257-268	0.8	12
587	An Adaptive Fuzzy Control Based on Harmony Search and Its Application to Optimization. <i>Studies in Computational Intelligence</i> , 2017 , 269-283	0.8	7
586	A Review of Dynamic Parameter Adaptation Methods for the Firefly Algorithm. <i>Studies in Computational Intelligence</i> , 2017 , 285-295	0.8	10
585	An Overview of Granular Computing Using Fuzzy Logic Systems. <i>Studies in Computational Intelligence</i> , 2017 , 19-38	0.8	5
584	A FPGA-Based Hardware Architecture Approach for Real-Time Fuzzy Edge Detection. <i>Studies in Computational Intelligence</i> , 2017 , 519-540	0.8	2
583	Choquet Integral and Interval Type-2 Fuzzy Choquet Integral for Edge Detection. <i>Studies in Computational Intelligence</i> , 2017 , 79-97	0.8	9
582	On the Graphical Representation of Intuitionistic Membership Functions for Its Use in Intuitionistic Fuzzy Inference Systems. <i>Studies in Computational Intelligence</i> , 2017 , 115-126	0.8	2
581	Sensor Less Fuzzy Logic Tracking Control for a Servo System with Friction and Backlash. <i>Studies in Computational Intelligence</i> , 2017 , 603-613	0.8	
580	Fuzzy Dynamic Adaptation of Parameters in the Water Cycle Algorithm. <i>Studies in Computational Intelligence</i> , 2017 , 297-311	0.8	9
579	Optimization of Reactive Control for Mobile Robots Based on the CRA Using Type-2 Fuzzy Logic. <i>Studies in Computational Intelligence</i> , 2017 , 505-515	0.8	5
578	Comparative Analysis of Designing Different Types of Membership Functions Using Bee Colony Optimization in the Stabilization of Fuzzy Controllers. <i>Studies in Computational Intelligence</i> , 2017 , 551-571	0.8	7
577	A Study of Parameter Dynamic Adaptation with Fuzzy Logic for the Grey Wolf Optimizer Algorithm. <i>Lecture Notes in Computer Science</i> , 2017 , 228-238	0.9	1

576	An Extension of the Fuzzy Possibilistic Clustering Algorithm Using Type-2 Fuzzy Logic Techniques. <i>Advances in Fuzzy Systems</i> , 2017 , 2017, 1-23	1.7	55
575	A Grey Wolf Optimizer for Modular Granular Neural Networks for Human Recognition. <i>Computational Intelligence and Neuroscience</i> , 2017 , 2017, 4180510	3	60
574	An open source implementation of an intuitionistic fuzzy inference system in Clojure 2017 ,		1
573	A New Meta-Heuristics of Optimization with Dynamic Adaptation of Parameters Using Type-2 Fuzzy Logic for Trajectory Control of a Mobile Robot. <i>Algorithms</i> , 2017 , 10, 85	1.8	30
572	Comparison of T-Norms and S-Norms for Interval Type-2 Fuzzy Numbers in Weight Adjustment for Neural Networks. <i>Information (Switzerland)</i> , 2017 , 8, 114	2.6	9
571	Dynamic simultaneous adaptation of parameters in the grey wolf optimizer using fuzzy logic 2017 ,		3
570	Optimization of modular granular neural networks using a firefly algorithm for human recognition. <i>Engineering Applications of Artificial Intelligence</i> , 2017 , 64, 172-186	7.2	116
569	A method based on Interactive Evolutionary Computation and fuzzy logic for increasing the effectiveness of advertising campaigns. <i>Information Sciences</i> , 2017 , 414, 175-186	7.7	12
568	Fuzzy higher type information granules from an uncertainty measurement. <i>Granular Computing</i> , 2017 , 2, 95-103	5.4	57
567	Type-2 Fuzzy Granular Models. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 ,	0.4	1
566	Experimentation and Results Discussion. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 , 37-49	0.4	
565	Comparative study of the use of fuzzy logic in improving particle swarm optimization variants for mathematical functions using co-evolution. <i>Applied Soft Computing Journal</i> , 2017 , 52, 1070-1083	7.5	60
564	Iterative fireworks algorithm with fuzzy coefficients 2017 ,		4
563	Edge Detection Method Based on General Type-2 Fuzzy Logic Applied to Color Images. <i>Information (Switzerland)</i> , 2017 , 8, 104	2.6	13
562	Review of Recent Type-2 Fuzzy Image Processing Applications. <i>Information (Switzerland)</i> , 2017 , 8, 97	2.6	31
561	Imperialist Competitive Algorithm with Dynamic Parameter Adaptation Using Fuzzy Logic Applied to the Optimization of Mathematical Functions. <i>Algorithms</i> , 2017 , 10, 18	1.8	36
560	New Methodology to Approximate Type-Reduction Based on a Continuous Root-Finding Karnik Mendel Algorithm. <i>Algorithms</i> , 2017 , 10, 77	1.8	45
559	Comparative Study of Type-2 Fuzzy Particle Swarm, Bee Colony and Bat Algorithms in Optimization of Fuzzy Controllers. <i>Algorithms</i> , 2017 , 10, 101	1.8	44

558	Advances in Granular Computing. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 , 19-35	0.4	1
557	General Type-2 Fuzzy Edge Detection in the Preprocessing of a Face Recognition System. <i>Studies in Computational Intelligence</i> , 2017 , 3-18	0.8	10
556	A Study of Parameters of the Grey Wolf Optimizer Algorithm for Dynamic Adaptation with Fuzzy Logic. <i>Studies in Computational Intelligence</i> , 2017 , 371-390	0.8	13
555	Bidding Strategies Based on Type-1 and Interval Type-2 Fuzzy Systems for Google AdWords Advertising Campaigns. <i>Studies in Computational Intelligence</i> , 2017 , 99-113	0.8	3
554	Metrics for Edge Detection Methods. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 , 17-19	0.4	2
553	Generalized Type-2 Fuzzy Edge Detection Applied on a Face Recognition System. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 , 37-41	0.4	2
552	Theory and Background. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 , 7-11	0.4	1
551	Water Cycle Algorithm with Fuzzy Logic for Dynamic Adaptation of Parameters. <i>Lecture Notes in Computer Science</i> , 2017 , 250-260	0.9	5
550	Background and Theory. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 , 5-18	0.4	
549	On the Use of Parallel Genetic Algorithms for Improving the Efficiency of a Monte Carlo-Digital Image Based Approximation of Eelgrass Leaf Area I: Comparing the Performances of Simple and Master-Slaves Structures. <i>Studies in Computational Intelligence</i> , 2017 , 431-455	0.8	1
548	Problem Statements. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 , 13-21	0.4	
547	Fuzzy Logic Dynamic Parameter Adaptation in the Gravitational Search Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 47-57	0.4	
546	Edge Detection Methods Based on Generalized Type-2 Fuzzy Logic Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 , 21-35	0.4	2
545	Bee Colony Optimization Algorithm. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 , 23-32	0.4	
544	A Generalized Type-2 Fuzzy Logic System for the dynamic adaptation the parameters in a Bee Colony Optimization algorithm applied in an autonomous mobile robot control 2016 ,		6
543	2016 ,		4
542	A proposal for an intuitionistic fuzzy inference system 2016 ,		6
541	Interval type-2 fuzzy logic for dynamic parameter adaptation in the Harmony search algorithm 2016 ,		6

540	Bat algorithm with parameter adaptation using Interval Type-2 fuzzy logic for benchmark mathematical functions 2016 ,		11
539	A fuzzy system for dynamic parameter adaptation in gravitational search algorithm 2016 ,		4
538	Ant colony optimization for the design of Modular Neural Networks in pattern recognition 2016 ,		5
537	Fuzzy Topsis Method Associated with Improved Selection of Machines of High Productivity. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 3-12	0.4	2
536	Comparative Study of Bio-inspired Algorithms Applied in the Design of Fuzzy Controller for the Water Tank. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 419-438	0.7	2
535	Interval Type-2 Fuzzy Possibilistic C-Means Clustering Algorithm. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 185-194	0.7	5
534	Dynamic parameter adaptation in particle swarm optimization using interval type-2 fuzzy logic. <i>Soft Computing</i> , 2016 , 20, 1057-1070	3.5	93
533	An improved sobel edge detection method based on generalized type-2 fuzzy logic. <i>Soft Computing</i> , 2016 , 20, 773-784	3.5	120
532	Optimization of interval type-2 fuzzy systems for image edge detection. <i>Applied Soft Computing Journal</i> , 2016 , 47, 631-643	7.5	113
531	Differential Evolution with Fuzzy Logic for Dynamic Adaptation of Parameters in Mathematical Function Optimization. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 361-374	0.7	7
530	A generalized type-2 fuzzy granular approach with applications to aerospace. <i>Information Sciences</i> , 2016 , 354, 165-177	7.7	178
529	A comparative study of type-1 fuzzy logic systems, interval type-2 fuzzy logic systems and generalized type-2 fuzzy logic systems in control problems. <i>Information Sciences</i> , 2016 , 354, 257-274	7.7	275
528	Ensemble Neural Network with Type-1 and Type-2 Fuzzy Integration for Time Series Prediction and Its Optimization with PSO. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 375-388	0.7	2
527	Optimization of fuzzy controller design using a new bee colony algorithm with fuzzy dynamic parameter adaptation. <i>Applied Soft Computing Journal</i> , 2016 , 43, 131-142	7.5	105
526	Method for Higher Order polynomial Sugeno Fuzzy Inference Systems. <i>Information Sciences</i> , 2016 , 351, 76-89	7.7	14
525	Interval Type-2 Fuzzy System Design Based on the Interval Type-2 Fuzzy C-Means Algorithm. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 133-146	0.7	4
524	Optimization of type-2 fuzzy weights in backpropagation learning for neural networks using GAs and PSO. <i>Applied Soft Computing Journal</i> , 2016 , 38, 860-871	7.5	104
523	Hierarchical aggregation of multiple fuzzy controllers for global complex control problems. <i>Applied Soft Computing Journal</i> , 2016 , 38, 851-859	7.5	9

522	Imperialist Competitive Algorithm with Fuzzy Logic for Parameter Adaptation: A Parameter Variation Study. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 277-289	0.4	2
521	Fuzzy Logic for Improving Interactive Evolutionary Computation Techniques for Ad Text Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 291-300	0.4	2
520	Optimization by Cuckoo Search of Interval Type-2 Fuzzy Logic Systems for Edge Detection. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 141-154	0.7	3
519	A Neural Network with a Learning Vector Quantization Algorithm for Multiclass Classification Using a Modular Approach. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 171-184	0.7	1
518	Optimization of an Integrator to Control the Flight of an Airplane. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 407-417	0.7	1
517	Choquet Integral with Interval Type 2 Sugeno Measures as an Integration Method for Modular Neural Networks. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 71-86	0.7	1
516	Method for Uncertainty Measurement and Its Application to the Formation of Interval Type-2 Fuzzy Sets. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 61-74	0.4	
515	Control Problem and Proposed Method. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , 13-19	0.4	
514	Theory and Background. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , 3-11	0.4	
513	Simulation Results. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , 21-59	0.4	
512	Genetic Optimization of Type-1 and Interval Type-2 Fuzzy Integrators in Ensembles of ANFIS Models for Time Series Prediction. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 331-351	0.7	
511	A Comparative Study of Membership Functions for an Interval Type-2 Fuzzy System Used for Dynamic Parameter Adaptation in Particle Swarm Optimization. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 373-385	0.7	1
510	Optimization of Type-1 and Type-2 Fuzzy Systems Applied to Pattern Recognition. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 127-139	0.7	
509	Fuzzy Sets in Dynamic Adaptation of Parameters of a Bee Colony Optimization for Controlling the Trajectory of an Autonomous Mobile Robot. <i>Sensors</i> , 2016 , 16,	3.8	51
508	Review of Recent Type-2 Fuzzy Controller Applications. <i>Algorithms</i> , 2016 , 9, 39	1.8	44
507	A New Fuzzy Harmony Search Algorithm Using Fuzzy Logic for Dynamic Parameter Adaptation. <i>Algorithms</i> , 2016 , 9, 69	1.8	47
506	Design of Ensemble Neural Networks for Predicting the US Dollar/MX Time Series with Particle Swarm Optimization. <i>Studies in Fuzziness and Soft Computing</i> , 2016 , 317-329	0.7	2
505	2016 ,		7

504	Comparison between Choquet and Sugeno integrals as aggregation operators for pattern recognition 2016,			5
503	2016,			1
502	Type-2 fuzzy logic dynamic parameter adaptation in a new Fuzzy Differential Evolution method 2016,			4
501	A fuzzy logic approach for dynamic adaptation of parameters in galactic swarm optimization 2016,			6
500	A new metaheuristic based on the self-defense techniques of the plants in nature 2016,			3
499	Grey wolf optimizer with dynamic adaptation of parameters using fuzzy logic 2016,			26
498	Fuzzy differential evolution method with dynamic parameter adaptation using type-2 fuzzy logic 2016,			9
497	Bidding strategies based on type-1 and interval type-2 fuzzy inference systems for Google Adwords advertising campaigns 2016,			1
496	Type-1 to Type-n Fuzzy Logic and Systems. <i>Studies in Fuzziness and Soft Computing, 2016, 129-157</i>	0.7		2
495	Cuckoo Search via Lévy Flights and a Comparison with Genetic Algorithms. <i>Studies in Computational Intelligence, 2015, 91-103</i>	0.8		10
494	A New Proposal for a Granular Fuzzy C-Means Algorithm. <i>Studies in Computational Intelligence, 2015, 47-57</i>	0.8		2
493	Study of Parameter Variations in the Cuckoo Search Algorithm and the Influence in Its Behavior. <i>Studies in Computational Intelligence, 2015, 199-210</i>	0.8		3
492	Method for Measurement of Uncertainty Applied to the Formation of Interval Type-2 Fuzzy Sets. <i>Studies in Computational Intelligence, 2015, 13-25</i>	0.8		3
491	Generalized type-2 fuzzy weight adjustment for backpropagation neural networks in time series prediction. <i>Information Sciences, 2015, 325, 159-174</i>	7.7		44
490	Cuckoo Search Algorithm via Lévy Flight with Dynamic Adaptation of Parameter Using Fuzzy Logic for Benchmark Mathematical Functions. <i>Studies in Computational Intelligence, 2015, 555-571</i>	0.8		6
489	Type-2 fuzzy logic aggregation of multiple fuzzy controllers for airplane flight control. <i>Information Sciences, 2015, 324, 247-256</i>	7.7		138
488	Imperialist Competitive Algorithm Applied to the Optimization of Mathematical Functions: A Parameter Variation Study. <i>Studies in Computational Intelligence, 2015, 219-232</i>	0.8		6
487	An Improved Harmony Search Algorithm Using Fuzzy Logic for the Optimization of Mathematical Functions. <i>Studies in Computational Intelligence, 2015, 605-615</i>	0.8		9

486	A New Bio-inspired Optimization Algorithm Based on the Self-defense Mechanisms of Plants. <i>Studies in Computational Intelligence</i> , 2015 , 211-218	0.8	6
485	Bio-Inspired Optimization of Type-2 Fuzzy Controllers 2015 , 1499-1507		
484	Fuzzy Controllers for Autonomous Mobile Robots 2015 , 1517-1531		1
483	Ant Colony Optimization with Parameter Adaptation Using Fuzzy Logic for TSP Problems. <i>Studies in Computational Intelligence</i> , 2015 , 593-603	0.8	13
482	Face Recognition with a Sobel Edge Detector and the Choquet Integral as Integration Method in a Modular Neural Networks. <i>Studies in Computational Intelligence</i> , 2015 , 59-70	0.8	8
481	Short Remark on Fuzzy Sets, Interval Type-2 Fuzzy Sets, General Type-2 Fuzzy Sets and Intuitionistic Fuzzy Sets. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 183-190	0.4	13
480	A New Bat Algorithm with Fuzzy Logic for Dynamical Parameter Adaptation and Its Applicability to Fuzzy Control Design. <i>Studies in Computational Intelligence</i> , 2015 , 65-79	0.8	8
479	Optimization of modular granular neural networks using a hierarchical genetic algorithm based on the database complexity applied to human recognition. <i>Information Sciences</i> , 2015 , 309, 73-101	7.7	42
478	Generalized Type-2 Fuzzy Systems for controlling a mobile robot and a performance comparison with Interval Type-2 and Type-1 Fuzzy Systems. <i>Expert Systems With Applications</i> , 2015 , 42, 5904-5914	7.8	203
477	Cuckoo search algorithm for the optimization of type-2 fuzzy image edge detection systems 2015 ,		17
476	2015 ,		4
475	Edge detection method based on Interval type-2 Fuzzy systems for color images 2015 ,		5
474	A new Interval Type-2 Fuzzy Possibilistic C-Means clustering algorithm 2015 ,		6
473	Fuzzy control of parameters to dynamically adapt the HS algorithm for optimization 2015 ,		3
472	Optimization of Reactive Fuzzy Controllers for Mobile Robots Based on the Chemical Reactions Algorithm. <i>Studies in Computational Intelligence</i> , 2015 , 253-266	0.8	1
471	A New Approach for Intelligent Control of Nonlinear Dynamic Plants Using a Benchmark Problem. <i>Studies in Computational Intelligence</i> , 2015 , 477-487	0.8	
470	Color Image Edge Detection Method Based on Interval Type-2 Fuzzy Systems. <i>Studies in Computational Intelligence</i> , 2015 , 3-11	0.8	3
469	A Method Based on Interactive Evolutionary Computation for Increasing the Effectiveness of Advertisement Texts 2015 ,		1

468	Modification of the Bat Algorithm using fuzzy logic for dynamical parameter adaptation 2015 ,		17
467	A new approach for dynamic fuzzy logic parameter tuning in Ant Colony Optimization and its application in fuzzy control of a mobile robot. <i>Applied Soft Computing Journal</i> , 2015 , 28, 150-159	7.5	133
466	A hybrid optimization method with PSO and GA to automatically design Type-1 and Type-2 fuzzy logic controllers. <i>International Journal of Machine Learning and Cybernetics</i> , 2015 , 6, 175-196	3.8	48
465	Information granule formation via the concept of uncertainty-based information with Interval Type-2 Fuzzy Sets representation and TakagiSugenoKang consequents optimized with Cuckoo search. <i>Applied Soft Computing Journal</i> , 2015 , 27, 602-609	7.5	126
464	New approach using ant colony optimization with ant set partition for fuzzy control design applied to the ball and beam system. <i>Information Sciences</i> , 2015 , 294, 203-215	7.7	53
463	Introduction to an optimization algorithm based on the chemical reactions. <i>Information Sciences</i> , 2015 , 291, 85-95	7.7	13
462	A fuzzy cellular prey-predator model for pest control under sustainable bio-economic equilibrium: A formal description and simulation analysis study. <i>Applied Mathematical Modelling</i> , 2015 , 39, 1794-1803	4.5	3
461	A Harmony Search Algorithm Comparison with Genetic Algorithms. <i>Studies in Computational Intelligence</i> , 2015 , 105-123	0.8	8
460	A hybrid learning method composed by the orthogonal least-squares and the back-propagation learning algorithms for interval A2-C1 type-1 non-singleton type-2 TSK fuzzy logic systems. <i>Soft Computing</i> , 2015 , 19, 661-678	3.5	23
459	Fuzzy Chemical Reaction Algorithm. <i>Lecture Notes in Computer Science</i> , 2015 , 452-459	0.9	1
458	Response integration in modular neural networks using Choquet Integral with Interval type 2 Sugeno measures 2015 ,		4
457	Bio-Inspired Optimization Algorithm Based on the Self-defense Mechanism in Plants. <i>Lecture Notes in Computer Science</i> , 2015 , 227-237	0.9	6
456	Fuzzy Index to Evaluate Edge Detection in Digital Images. <i>PLoS ONE</i> , 2015 , 10, e0131161	3.7	13
455	Fuzzy Logic for Dynamic Parameter Tuning in ACO and Its Application in Optimal Fuzzy Logic Controller Design. <i>Studies in Computational Intelligence</i> , 2015 , 3-28	0.8	5
454	Bio-Inspired Optimization of Interval Type-2 Fuzzy Controller Design 2015 , 183-215		
453	Fuzzy Classification System Design Using PSO with Dynamic Parameter Adaptation Through Fuzzy Logic. <i>Studies in Computational Intelligence</i> , 2015 , 29-47	0.8	8
452	Optimization of Benchmark Mathematical Functions Using the Firefly Algorithm with Dynamic Parameters. <i>Studies in Computational Intelligence</i> , 2015 , 81-89	0.8	9
451	A Fuzzy Bee Colony Optimization Algorithm Using an Interval Type-2 Fuzzy Logic System for Trajectory Control of a Mobile Robot. <i>Lecture Notes in Computer Science</i> , 2015 , 460-471	0.9	5

450	Optimization of a reactive controller for mobile robots based on CRA 2015 ,		2
449	Time Series Prediction Using Ensembles of ANFIS Models with Particle Swarm Optimization of the Fuzzy Integrators. <i>Lecture Notes in Computer Science</i> , 2015 , 472-483	0.9	2
448	A New Bat Algorithm Augmentation Using Fuzzy Logic for Dynamical Parameter Adaptation. <i>Lecture Notes in Computer Science</i> , 2015 , 433-442	0.9	4
447	Proposed augmentation of the Bat Algorithm using fuzzy logic for dynamic parameter adaptation 2015 ,		1
446	Fuzzy dynamic parameters adaptation in the Cuckoo Search Algorithm using fuzzy logic 2015 ,		23
445	Differential Evolution with Dynamic Adaptation of Parameters for the Optimization of Fuzzy Controllers. <i>Studies in Computational Intelligence</i> , 2015 , 49-63	0.8	3
444	Fuzzy System Optimization Using a Hierarchical Genetic Algorithm Applied to Pattern Recognition. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 713-720	0.4	6
443	A Type-2 Fuzzy Neural Network Ensemble to Predict Chaotic Time Series. <i>Studies in Computational Intelligence</i> , 2015 , 185-195	0.8	2
442	Exploring the Suitability of a Genetic Algorithm as Tool for Boosting Efficiency in Monte Carlo Estimation of Leaf Area of Eelgrass. <i>Studies in Computational Intelligence</i> , 2015 , 291-303	0.8	3
441	A New Algorithm Based in the Smart Behavior of the Bees for the Design of Mamdani-Style Fuzzy Controllers Using Complex Non-linear Plants. <i>Studies in Computational Intelligence</i> , 2015 , 617-637	0.8	8
440	Design of an Optimal Modular LVQ Network for Classification of Arrhythmias Based on a Variable Training-Test Datasets Strategy. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 369-375	0.4	
439	Design of a Fuzzy System for the Fly the de Havilland Beaver. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 81-88	0.4	
438	Application of interval type-2 fuzzy neural networks in non-linear identification and time series prediction. <i>Soft Computing</i> , 2014 , 18, 1213-1224	3.5	75
437	A review on type-2 fuzzy logic applications in clustering, classification and pattern recognition. <i>Applied Soft Computing Journal</i> , 2014 , 21, 568-577	7.5	174
436	A review on interval type-2 fuzzy logic applications in intelligent control. <i>Information Sciences</i> , 2014 , 279, 615-631	7.7	172
435	Embedded Average of an Interval Type-2 Fuzzy Systems for Applications in FPGAs. <i>Intelligent Automation and Soft Computing</i> , 2014 , 20, 183-199	2.6	3
434	Implementing flower multi-objective algorithm for selection of university academic credits 2014 ,		7
433	Finishing mill strip gage setup and control by interval type-1 non-singleton type-2 fuzzy logic systems. <i>Applied Soft Computing Journal</i> , 2014 , 24, 900-911	7.5	17

432	Optimization of the Type-1 and Type-2 fuzzy controller design for the water tank using the Bee Colony Optimization 2014 ,		10
431	Optimization of interval type-2 fuzzy integrators in ensembles of ANFIS models for prediction of the Mackey-Glass time series 2014 ,		6
430	Optimization of ensemble neural networks with fuzzy integration using the particle swarm algorithm for the US Dollar/MX time series prediction 2014 ,		1
429	A fuzzy differential evolution method with dynamic adaptation of parameters for the optimization of fuzzy controllers 2014 ,		7
428	2014 ,		3
427	Interval type-2 fuzzy clustering algorithm using the combination of the fuzzy and possibilistic C-Mean algorithms 2014 ,		4
426	Optimal design of interval type 2 fuzzy controllers based on a simple tuning algorithm. <i>Applied Soft Computing Journal</i> , 2014 , 23, 270-285	7.5	32
425	Type-1 and Type-2 fuzzy logic controller design using a Hybrid PSOGA optimization method. <i>Information Sciences</i> , 2014 , 285, 35-49	7.7	49
424	A new neural network model based on the LVQ algorithm for multi-class classification of arrhythmias. <i>Information Sciences</i> , 2014 , 279, 483-497	7.7	93
423	Edge-Detection Method for Image Processing Based on Generalized Type-2 Fuzzy Logic. <i>IEEE Transactions on Fuzzy Systems</i> , 2014 , 22, 1515-1525	8.3	180
422	Surface aggregation patterns of LDL receptors near coated pits III: potential effects of combined retrograde membrane flow-diffusion and a polarized-insertion mechanism. <i>Theoretical Biology and Medical Modelling</i> , 2014 , 11, 23	2.3	2
421	Interval type-2 fuzzy weight adjustment for backpropagation neural networks with application in time series prediction. <i>Information Sciences</i> , 2014 , 260, 1-14	7.7	100
420	Modular Neural Networks architecture optimization with a new nature inspired method using a fuzzy combination of Particle Swarm Optimization and Genetic Algorithms. <i>Information Sciences</i> , 2014 , 270, 143-153	7.7	71
419	A fuzzy system for parameter adaptation in ant colony optimization 2014 ,		4
418	Optimization of the type-1 and interval type-2 fuzzy integrators in Ensembles of ANFIS models for prediction of the Dow Jones time series 2014 ,		2
417	Bat Algorithm Comparison with Genetic Algorithm Using Benchmark Functions. <i>Studies in Computational Intelligence</i> , 2014 , 225-237	0.8	8
416	Genetic Design of Optimal Type-1 and Type-2 Fuzzy Systems for Longitudinal Control of an Airplane. <i>Intelligent Automation and Soft Computing</i> , 2014 , 20, 213-227	2.6	13
415	Shipwrecked on Fear: Selection of Electives in School Minorities in a University Using Cuckoo Search Algorithm. <i>Studies in Computational Intelligence</i> , 2014 , 139-150	0.8	3

414	Chemical Optimization Algorithm for Fuzzy Controller Design. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014 ,	0.4	7
413	The Proposed Chemical Reaction Algorithm. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014 , 13-184		
412	Time series prediction using ensembles of ANFIS models with genetic optimization of interval type-2 and type-1 fuzzy integrators. <i>International Journal of Hybrid Intelligent Systems</i> , 2014 , 11, 211-226 ^{0.9}	0.9	45
411	A Fuzzy Control Design for an Autonomous Mobile Robot Using Ant Colony Optimization. <i>Studies in Computational Intelligence</i> , 2014 , 289-304	0.8	2
410	Using the value of Lin's concordance correlation coefficient as a criterion for efficient estimation of areas of leaves of eelgrass from noisy digital images. <i>Source Code for Biology and Medicine</i> , 2014 , 9, 29	1.9	4
409	A multi-objective optimization of type-2 fuzzy control speed in FPGAs. <i>Applied Soft Computing Journal</i> , 2014 , 24, 1164-1174	7.5	25
408	Design of a Fuzzy System for Flight Control of an F-16 Airplane. <i>Studies in Computational Intelligence</i> , 2014 , 209-224	0.8	
407	Face Recognition with Choquet Integral in Modular Neural Networks. <i>Studies in Computational Intelligence</i> , 2014 , 437-449	0.8	6
406	Uncertainty-Based Information Granule Formation. <i>Studies in Computational Intelligence</i> , 2014 , 113-123	0.8	
405	Hierarchical Genetic Algorithms for Fuzzy Inference System Optimization Applied to Response Integration for Pattern Recognition. <i>Lecture Notes in Computer Science</i> , 2014 , 345-356	0.9	
404	Genetic Algorithm Optimization for Type-2 Non-singleton Fuzzy Logic Controllers. <i>Studies in Computational Intelligence</i> , 2014 , 3-18	0.8	18
403	Toolbox for bio-inspired optimization of mathematical functions. <i>Computer Applications in Engineering Education</i> , 2014 , 22, 11-22	1.6	5
402	Fuzzy granular gravitational clustering algorithm for multivariate data. <i>Information Sciences</i> , 2014 , 279, 498-511	7.7	100
401	A survey on nature-inspired optimization algorithms with fuzzy logic for dynamic parameter adaptation. <i>Expert Systems With Applications</i> , 2014 , 41, 6459-6466	7.8	97
400	Particle swarm optimization of ensemble neural networks with fuzzy aggregation for time series prediction of the Mexican Stock Exchange. <i>Information Sciences</i> , 2014 , 280, 188-204	7.7	86
399	Optimization of Benchmark Mathematical Functions Using the Firefly Algorithm. <i>Studies in Computational Intelligence</i> , 2014 , 177-189	0.8	4
398	Optimization of Fuzzy Control Systems for Mobile Robots Based on PSO. <i>Studies in Computational Intelligence</i> , 2014 , 191-208	0.8	4
397	Comparison of the Optimal Design of Fuzzy Controllers for the Water Tank Using Ant Colony Optimization. <i>Studies in Computational Intelligence</i> , 2014 , 255-273	0.8	5

396	Differential Evolution with Dynamic Adaptation of Parameters for the Optimization of Fuzzy Controllers. <i>Studies in Computational Intelligence</i> , 2014 , 275-288	0.8	22
395	Designing Type-2 Fuzzy Systems Using the Interval Type-2 Fuzzy C-Means Algorithm. <i>Studies in Computational Intelligence</i> , 2014 , 37-50	0.8	9
394	A Comparative Study of Membership Functions for an Interval Type-2 Fuzzy System used to Dynamic Parameter Adaptation in Particle Swarm Optimization. <i>Studies in Computational Intelligence</i> , 2014 , 67-78	0.8	2
393	Theory and Background. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014 , 5-9	0.4	
392	Simulation Results. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014 , 27-56	0.4	
391	Optimization of Fuzzy Controllers Design Using the Bee Colony Algorithm. <i>Studies in Computational Intelligence</i> , 2014 , 163-175	0.8	
390	Application Problems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014 , 19-26	0.4	
389	Chemical Definitions. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014 , 11-12	0.4	
388	A Type 2 Fuzzy Neural Network Ensemble to Estimate Time Increased Probability of Seismic Hazard in North Region of Baja California Peninsula. <i>Studies in Computational Intelligence</i> , 2014 , 125-135	0.8	
387	Nature-Inspired Optimization of Type-2 Fuzzy Systems. <i>Lecture Notes in Computer Science</i> , 2014 , 331-344.	0.9	0
386	MLP for Electroencephalographic Signals Classification Using Different Adaptive Learning Algorithm. <i>Studies in Computational Intelligence</i> , 2014 , 369-380	0.8	
385	A visual toolbox for modeling and testing multi-net neural systems. <i>Computer Applications in Engineering Education</i> , 2013 , 21, 164-184	1.6	1
384	Ant colony test center for planning autonomous mobile robot navigation. <i>Computer Applications in Engineering Education</i> , 2013 , 21, 214-229	1.6	29
383	Using MatLab's fuzzy logic toolbox to create an application for RAMSET in software engineering courses. <i>Computer Applications in Engineering Education</i> , 2013 , 21, 596-605	1.6	6
382	Computational intelligence software for interval type-2 fuzzy logic. <i>Computer Applications in Engineering Education</i> , 2013 , 21, 737-747	1.6	12
381	Using allometric procedures to substantiate the plastochrone method for eelgrass leaf growth assessments. <i>Theoretical Biology and Medical Modelling</i> , 2013 , 10, 34	2.3	2
380	Optimization of interval type-2 and type-1 fuzzy integrators in ensembles of ANFIS models with Genetic Algorithms 2013 ,		1
379	Interval type-2 fuzzy clustering for membership function generation 2013 ,		14

378	A new approach for time series prediction using ensembles of ANFIS models with interval type-2 and type-1 fuzzy integrators 2013 ,		9
377	A new approach based on generalized type-2 fuzzy logic for edge detection 2013 ,		3
376	Modular granular neural networks optimization with Multi-Objective Hierarchical Genetic Algorithm for human recognition based on iris biometric 2013 ,		10
375	Statistical comparison of type-1 and type-2 fuzzy systems design with genetic algorithms in the case of three tank water control 2013 ,		2
374	Neural Network with Type-2 Fuzzy Weights Adjustment for Pattern Recognition of the Human Iris Biometrics. <i>Lecture Notes in Computer Science</i> , 2013 , 259-270	0.9	10
373	A hybrid method for IT2 TSK formation based on the principle of justifiable granularity and PSO for spread optimization 2013 ,		4
372	A new gravitational search algorithm using fuzzy logic to parameter adaptation 2013 ,		60
371	Time series prediction using ensembles of neuro-fuzzy models with interval type-2 and type-1 fuzzy integrators 2013 ,		4
370	Generalized type-2 fuzzy logic in response integration of modular neural networks 2013 ,		5
369	Nature inspired chemical optimization to design a type-2 fuzzy controller for a mobile robot 2013 ,		3
368	Bat algorithm to improve a Financial Trust Forest 2013 ,		3
367	Formation of general type-2 Gaussian membership functions based on the information granule numerical evidence 2013 ,		5
366	A class of interval type-2 fuzzy neural networks illustrated with application to non-linear identification 2013 ,		3
365	Particle swarm optimization with dynamic parameter adaptation using interval type-2 fuzzy logic for benchmark mathematical functions 2013 ,		16
364	Optimization of type-2 fuzzy integration in ensemble neural networks for predicting the US Dolar/MX pesos time series 2013 ,		7
363	Optimization of ensemble neural networks with type-2 fuzzy response integration for predicting the Mackey-Glass time series 2013 ,		1
362	Particle swarm optimization of interval type-2 fuzzy systems for FPGA applications. <i>Applied Soft Computing Journal</i> , 2013 , 13, 496-508	7.5	121
361	Genetic Optimization of Membership Functions in Modular Fuzzy Controllers for Complex Problems. <i>Studies in Computational Intelligence</i> , 2013 , 51-62	0.8	6

360	Optimal design of type-2 and type-1 fuzzy tracking controllers for autonomous mobile robots under perturbed torques using a new chemical optimization paradigm. <i>Expert Systems With Applications</i> , 2013 , 40, 3185-3195	7.8	112
359	Handling of Synergy into an Algorithm for Project Portfolio Selection. <i>Studies in Computational Intelligence</i> , 2013 , 417-430	0.8	8
358	Conjunction and disjunction operations for digital fuzzy hardware. <i>Applied Soft Computing Journal</i> , 2013 , 13, 3248-3258	7.5	11
357	Optimization of the Interval Type-2 Fuzzy C-Means using Particle Swarm Optimization 2013 ,		8
356	Evolutionary Optimization of the Fuzzy Integrator in a Navigation System for a Mobile Robot. <i>Studies in Computational Intelligence</i> , 2013 , 21-31	0.8	15
355	Modular Neural Networks Optimization with Hierarchical Genetic Algorithms with Fuzzy Response Integration for Pattern Recognition. <i>Lecture Notes in Computer Science</i> , 2013 , 247-258	0.9	3
354	Optimization of a Fuzzy Tracking Controller for an Autonomous Mobile Robot under Perturbed Torques by Means of a Chemical Optimization Paradigm. <i>Studies in Computational Intelligence</i> , 2013 , 3-20	0.8	12
353	Parallel Particle Swarm Optimization with Parameters Adaptation Using Fuzzy Logic. <i>Lecture Notes in Computer Science</i> , 2013 , 374-385	0.9	15
352	Optimal design of fuzzy classification systems using PSO with dynamic parameter adaptation through fuzzy logic. <i>Expert Systems With Applications</i> , 2013 , 40, 3196-3206	7.8	195
351	An Analysis of the Relationship between the Size of the Clusters and the Principle of Justifiable Granularity in Clustering Algorithms. <i>Studies in Fuzziness and Soft Computing</i> , 2013 , 239-263	0.7	1
350	A review on the applications of type-2 fuzzy logic in classification and pattern recognition. <i>Expert Systems With Applications</i> , 2013 , 40, 5413-5423	7.8	111
349	Interval Type-2 Fuzzy Logic for Hybrid Intelligent Control. <i>Studies in Fuzziness and Soft Computing</i> , 2013 , 91-94	0.7	1
348	Type-2 Fuzzy Logic in Image Analysis and Pattern Recognition. <i>Studies in Fuzziness and Soft Computing</i> , 2013 , 187-201	0.7	
347	A Method to Solve the Traveling Salesman Problem Using Ant Colony Optimization Variants with Ant Set Partitioning. <i>Studies in Computational Intelligence</i> , 2013 , 237-246	0.8	17
346	Particle Swarm Optimization for Average Approximation of Interval Type-2 Fuzzy Inference Systems Design in FPGAs for Real Applications. <i>Studies in Computational Intelligence</i> , 2013 , 33-49	0.8	10
345	An edge detection method based on generalized type-2 fuzzy logic 2013 ,		2
344	Backpropagation learning method with interval type-2 fuzzy weights in neural networks 2013 ,		1
343	Optimization of Interval Type-2 and Type-1 Fuzzy Integrators in Ensembles of ANFIS Models with Genetic Algorithms 2013 ,		1

342	Design of optimal membership functions for fuzzy controllers of the water tank and inverted pendulum with PSO variants 2013 ,		4
341	2013 ,		5
340	Particle Swarm Optimization with Dynamic Parameter Adaptation Using Fuzzy Logic for Benchmark Mathematical Functions. <i>Studies in Computational Intelligence</i> , 2013 , 247-258	0.8	13
339	Optimization of type-2 fuzzy weight for neural network using genetic algorithm and particle swarm optimization 2013 ,		8
338	An Analysis on the Intrinsic Implementation of the Principle of Justifiable Granularity in Clustering Algorithms. <i>Studies in Computational Intelligence</i> , 2013 , 121-134	0.8	2
337	Optimization of fuzzy control systems with different variants of Particle Swarm Optimization 2013 ,		4
336	Comparison of fuzzy controllers for the water tank with Type-1 and Type-2 fuzzy logic 2013 ,		17
335	Genetic optimization of interval type-2 fuzzy reactive controllers for mobile robots 2013 ,		3
334	Dynamic Fuzzy Logic Parameter Tuning for ACO and Its Application in the Fuzzy Logic Control of an Autonomous Mobile Robot. <i>International Journal of Advanced Robotic Systems</i> , 2013 , 10, 51	1.4	26
333	Optimal Design of the Fuzzy Navigation System for a Mobile Robot Using Evolutionary Algorithms. <i>International Journal of Advanced Robotic Systems</i> , 2013 , 10, 139	1.4	8
332	Universal Approximation of a Class of Interval Type-2 Fuzzy Neural Networks in Nonlinear Identification. <i>Advances in Fuzzy Systems</i> , 2013 , 2013, 1-16	1.7	17
331	Dynamic Fuzzy Logic Parameter Tuning for ACO and Its Application in TSP Problems. <i>Studies in Computational Intelligence</i> , 2013 , 259-271	0.8	46
330	Bio-inspired Optimization Methods on Graphic Processing Unit for Minimization of Complex Mathematical Functions. <i>Studies in Computational Intelligence</i> , 2013 , 313-322	0.8	18
329	Type-2 Fuzzy Grammar in Language Evolution. <i>Studies in Computational Intelligence</i> , 2013 , 501-515	0.8	4
328	Designing Systematic Stable Fuzzy Logic Controllers by Fuzzy Lyapunov Synthesis. <i>Studies in Computational Intelligence</i> , 2013 , 63-79	0.8	6
327	Design of Fuzzy Control Systems with Different PSO Variants. <i>Studies in Computational Intelligence</i> , 2013 , 81-88	0.8	17
326	Optimization of Membership Functions for Type-1 and Type 2 Fuzzy Controllers of an Autonomous Mobile Robot Using PSO. <i>Studies in Computational Intelligence</i> , 2013 , 97-104	0.8	11
325	Optimization of Type-2 and Type-1 Fuzzy Tracking Controllers for an Autonomous Mobile Robot under Perturbed Torques by Means of a Chemical Optimization Paradigm. <i>Studies in Fuzziness and Soft Computing</i> , 2013 , 3-26	0.7	3

324	Hierarchical Genetic Optimization of the Fuzzy Integrator for Navigation of a Mobile Robot. <i>Studies in Fuzziness and Soft Computing</i> , 2013 , 77-96	0.7	6
323	Comparative Study of Type-1 and Type-2 Fuzzy Systems for the Three-Tank Water Control Problem. <i>Lecture Notes in Computer Science</i> , 2013 , 362-373	0.9	7
322	Bio-inspired Optimization of Interval Type-2 Fuzzy Controllers. <i>Studies in Fuzziness and Soft Computing</i> , 2013 , 241-254	0.7	
321	Particle Swarm Optimization for Multi-objective Control Design Using AT2-FLC in FPGA Device. <i>Studies in Fuzziness and Soft Computing</i> , 2013 , 97-124	0.7	
320	Type-2 Fuzzy Logic Grammars in Language Evolution. <i>Studies in Fuzziness and Soft Computing</i> , 2013 , 265-286		
319	Genetic Optimization of Modular Type-1 Fuzzy Controllers for Complex Control Problems. <i>Studies in Fuzziness and Soft Computing</i> , 2013 , 125-154	0.7	1
318	Comparative study of bio-inspired algorithms applied to the optimization of type-1 and type-2 fuzzy controllers for an autonomous mobile robot. <i>Information Sciences</i> , 2012 , 192, 19-38	7.7	202
317	Genetic optimization of modular neural networks with fuzzy response integration for human recognition. <i>Information Sciences</i> , 2012 , 197, 1-19	7.7	91
316	Hybrid intelligent system for cardiac arrhythmia classification with Fuzzy K-Nearest Neighbors and neural networks combined with a fuzzy system. <i>Expert Systems With Applications</i> , 2012 , 39, 2947-2955	7.8	77
315	A new approach for time series prediction using ensembles of ANFIS models. <i>Expert Systems With Applications</i> , 2012 , 39, 3494-3506	7.8	125
314	An optimization method for designing type-2 fuzzy inference systems based on the footprint of uncertainty using genetic algorithms. <i>Expert Systems With Applications</i> , 2012 , 39, 4590-4598	7.8	109
313	Genetic Design of an Interval Type-2 Fuzzy Controller for Velocity Regulation in a DC Motor. <i>International Journal of Advanced Robotic Systems</i> , 2012 , 9, 204	1.4	6
312	2012 ,		3
311	Optimization of type-2 fuzzy systems based on bio-inspired methods: A concise review. <i>Information Sciences</i> , 2012 , 205, 1-19	7.7	140
310	Recent Advances in Interval Type-2 Fuzzy Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 ,	0.4	16
309	Particle Swarm Optimization in the Design of Type-2 Fuzzy Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 , 27-31	0.4	1
308	Designing Type-1 and Type-2 Fuzzy Logic Controllers via Fuzzy Lyapunov Synthesis for nonsmooth mechanical systems. <i>Engineering Applications of Artificial Intelligence</i> , 2012 , 25, 971-979	7.2	98
307	Nature optimization applied to design a type-2 fuzzy controller for an autonomous mobile robot 2012 ,		10

306	Type-2 Fuzzy Logic Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 , 7-12	0.4	14
305	Bio-Inspired Optimization Methods. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 , 13-18	0.4	
304	Introduction to Type-2 Fuzzy Logic Control. <i>Studies in Fuzziness and Soft Computing</i> , 2012 , 3-5	0.7	6
303	Type-2 Fuzzy Logic in Intelligent Control Applications. <i>Studies in Fuzziness and Soft Computing</i> , 2012	0.7	49
302	Fuzzy granular gravitational clustering algorithm 2012 ,		5
301	Type-2 fuzzy granular approach for intelligent control: The case of three tank water control 2012 ,		1
300	Design of a Type-2 Fuzzy Controller and Its Comparison with Type-1 Fuzzy and PID Controllers for Velocity Regulation in a Motor. <i>Studies in Fuzziness and Soft Computing</i> , 2012 , 65-75	0.7	2
299	High Performance Fuzzy Systems for Real World Problems. <i>Advances in Fuzzy Systems</i> , 2012 , 2012, 1-2	1.7	1
298	Embedding a high speed interval type-2 fuzzy controller for a real plant into an FPGA. <i>Applied Soft Computing Journal</i> , 2012 , 12, 988-998	7.5	78
297	A review on the design and optimization of interval type-2 fuzzy controllers. <i>Applied Soft Computing Journal</i> , 2012 , 12, 1267-1278	7.5	257
296	Other Methods for Optimization of Type-2 Fuzzy Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 , 37-43	0.4	
295	Comparison between multiobjective GA and PSO for parameter optimization of AT2-FLC for a real application in FPGA 2012 ,		3
294	Bio-inspired optimization of fuzzy logic controllers for autonomous mobile robots 2012 ,		12
293	Decentralized direct and indirect I-term adaptive fuzzy-neural control of a bioprocess plant 2012 ,		1
292	Simulation of language evolution using Fuzzy Grammars 2012 ,		2
291	Optimization of type-2 fuzzy reactive controllers for an autonomous mobile robot 2012 ,		12
290	Methodology to Optimize Manufacturing Time for a CNC Using a High Performance Implementation of ACO. <i>International Journal of Advanced Robotic Systems</i> , 2012 , 9, 121	1.4	7
289	Efficient Stereoscopic Video Matching and Map Reconstruction for a Wheeled Mobile Robot. <i>International Journal of Advanced Robotic Systems</i> , 2012 , 9, 120	1.4	3

288	Design of Interval Type-2 Fuzzy Logic Controllers. <i>Studies in Fuzziness and Soft Computing</i> , 2012 , 23-47	0.7	3
287	Interval Type-2 Mamdani Fuzzy Systems for Intelligent Control. <i>Studies in Fuzziness and Soft Computing</i> , 2012 , 163-177	0.7	7
286	Overview of Genetic Algorithms Applied in the Optimization of Type-2 Fuzzy Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 , 19-25	0.4	2
285	Ant Colony Optimization Algorithms for the Design of Type-2 Fuzzy Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 , 33-35	0.4	2
284	Genetic Optimization of Interval Type-2 Fuzzy Systems for Hardware Implementation on FPGAs. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 , 63-84	0.4	1
283	Simulation Results Illustrating the Optimization of Type-2 Fuzzy Controllers. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2012 , 45-62	0.4	
282	Optimization of Fuzzy Logic Controllers for Robotic Autonomous Systems with PSO and ACO. <i>Adaptation, Learning, and Optimization</i> , 2011 , 389-417	0.7	1
281	Intelligent Control of Nonlinear Dynamic Plants Using a Hierarchical Modular Approach and Type-2 Fuzzy Logic. <i>Lecture Notes in Computer Science</i> , 2011 , 1-12	0.9	17
280	2011 ,		1
279	Genetic optimization of ensemble neural networks for complex time series prediction 2011 ,		18
278	Genetic algorithm with a Neuro-Fuzzy fitness function for optimal fuzzy controller design 2011 ,		1
277	Face Recognition With an Improved Interval Type-2 Fuzzy Logic Sugeno Integral and Modular Neural Networks. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2011 , 41, 1001-1012		92
276	Design of interval type-2 fuzzy models through optimal granularity allocation. <i>Applied Soft Computing Journal</i> , 2011 , 11, 5590-5601	7.5	99
275	Generation of walking periodic motions for a biped robot via genetic algorithms. <i>Applied Soft Computing Journal</i> , 2011 , 11, 5306-5314	7.5	25
274	Optimization of interval type-2 fuzzy logic controllers using evolutionary algorithms. <i>Soft Computing</i> , 2011 , 15, 1145-1160	3.5	102
273	Simulation of the bird age-structured population growth based on an interval type-2 fuzzy cellular structure. <i>Information Sciences</i> , 2011 , 181, 519-535	7.7	80
272	Design of fuzzy systems using a new chemical optimization paradigm 2011 ,		1
271	Distributed parameter bioprocess plant identification and I-term control using centralized recurrent neural network models 2011 ,		1

270	An improved evolutionary method with fuzzy logic for combining Particle Swarm Optimization and Genetic Algorithms. <i>Applied Soft Computing Journal</i> , 2011 , 11, 2625-2632	7.5	162
269	A new validation index for fuzzy clustering and its comparisons with other methods 2011 ,		5
268	ACO-Tuning of a Fuzzy Controller for the Ball and Beam Problem. <i>Lecture Notes in Computer Science</i> , 2011 , 58-69	0.9	8
267	MODELLING AND SIMULATION OF THE DEFUZZIFICATION STAGE OF A TYPE-2 FUZZY CONTROLLER USING VHDL CODE. <i>Control and Intelligent Systems</i> , 2011 , 39,		11
266	Bio-Inspired Optimization Methods for Minimization of Complex Mathematical Functions. <i>Lecture Notes in Computer Science</i> , 2011 , 131-142	0.9	2
265	Modular Neural Networks with Type-2 Fuzzy Integration for Pattern Recognition of Iris Biometric Measure. <i>Lecture Notes in Computer Science</i> , 2011 , 363-373	0.9	3
264	Comparative Study of Fuzzy Information Processing in Type-2 Fuzzy Systems. <i>Intelligent Systems Reference Library</i> , 2011 , 75-93	0.8	
263	A New Model of Modular Neural Networks with Fuzzy Granularity for Pattern Recognition and Its Optimization with Hierarchical Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , 2011 , 331-342	0.9	2
262	Fuzzy Logic Controllers Optimization Using Genetic Algorithms and Particle Swarm Optimization. <i>Lecture Notes in Computer Science</i> , 2010 , 475-486	0.9	12
261	Type-2 Fuzzy Inference System Optimization Based on the Uncertainty of Membership Functions Applied to Benchmark Problems. <i>Lecture Notes in Computer Science</i> , 2010 , 454-464	0.9	2
260	Design of a Fuzzy System for the Longitudinal Control of an F-14 Airplane. <i>Studies in Computational Intelligence</i> , 2010 , 213-224	0.8	22
259	Hybrid system for cardiac arrhythmia classification with fuzzy k-nearest neighbors and Multi Layer Perceptrons combined by a fuzzy inference system 2010 ,		1
258	A T-S Fuzzy Logic Controller for biped robot walking based on adaptive network fuzzy inference system 2010 ,		7
257	Reactive and tracking control of a mobile robot in a distributed environment using fuzzy logic 2010 ,		11
256	2010 ,		2
255	An Observer for the Type-1 Fuzzy Control of a Servomechanism with Backlash Using Only Motor Measurements. <i>Studies in Computational Intelligence</i> , 2010 , 405-421	0.8	3
254	Chaotic Time Series Prediction Using Ensembles of ANFIS. <i>Studies in Computational Intelligence</i> , 2010 , 287-301	0.8	4
253	Neural networks recognition rate as index to compare the performance of fuzzy edge detectors 2010 ,		5

252	Direct torque adaptive vector neural control of a three-phase induction motor 2010 ,		2
251	Type-2 Fuzzy Logic Controllers Optimization Using Genetic Algorithms and Particle Swarm Optimization 2010 ,		15
250	Interval Type-2 Fuzzy Logic for Control Applications 2010 ,		4
249	Optimization of Membership Functions for an Incremental Fuzzy PD Control Based on Genetic Algorithms. <i>Studies in Computational Intelligence</i> , 2010 , 195-211	0.8	5
248	Optimal Design of Type-2 Fuzzy Membership Functions Using Genetic Algorithms in a Partitioned Search Space 2010 ,		8
247	Fuzzy control of parameters to dynamically adapt the PSO and GA Algorithms 2010 ,		19
246	Evolutionary method combining Particle Swarm Optimisation and Genetic Algorithms using fuzzy logic for parameter adaptation and aggregation: the case neural network optimisation for face recognition. <i>International Journal of Artificial Intelligence and Soft Computing</i> , 2010 , 2, 77	0.1	13
245	A hybrid approach with fuzzy logic in a multi-agent system for controlling autonomous mobile robots in known environments. <i>International Journal of Intelligent Engineering Informatics</i> , 2010 , 1, 21	0.3	3
244	Bio-inspired Optimization of Fuzzy Logic Controllers for Robotic Autonomous Systems with PSO and ACO. <i>Fuzzy Information and Engineering</i> , 2010 , 2, 119-143	0.5	3
243	Fuzzy logic control with genetic membership function parameters optimization for the output regulation of a servomechanism with nonlinear backlash. <i>Expert Systems With Applications</i> , 2010 , 37, 4368-4378	7.8	80
242	An improved method for edge detection based on interval type-2 fuzzy logic. <i>Expert Systems With Applications</i> , 2010 , 37, 8527-8535	7.8	113
241	Embedding a KM Type Reducer for High Speed Fuzzy Controller into an FPGA. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 217-228		2
240	Comparative Study of Feature Extraction Methods of Fuzzy Logic Type 1 and Type-2 for Pattern Recognition System Based on the Mean Pixels. <i>Studies in Computational Intelligence</i> , 2010 , 171-188	0.8	6
239	A New Optimization Method Based on a Paradigm Inspired by Nature. <i>Studies in Computational Intelligence</i> , 2010 , 277-283	0.8	8
238	Comparison of Fuzzy Edge Detectors Based on the Image Recognition Rate as Performance Index Calculated with Neural Networks. <i>Studies in Computational Intelligence</i> , 2010 , 389-399	0.8	11
237	Hybrid System for Cardiac Arrhythmia Classification with Fuzzy K-Nearest Neighbors and Neural Networks Combined by a Fuzzy Inference System. <i>Studies in Computational Intelligence</i> , 2010 , 37-55	0.8	5
236	Fuzzy Control for Dynamical Parameter Adaptation in a Parallel Evolutionary Method Combining Particle Swarm Optimization and Genetic Algorithms. <i>Studies in Computational Intelligence</i> , 2010 , 161-178	0.8	3
235	Optimization of Type-2 Fuzzy Logic Controllers Using PSO Applied to Linear Plants. <i>Studies in Computational Intelligence</i> , 2010 , 181-193	0.8	8

234	A Fuzzy Reactive Controller of a Mobile Robot. <i>Studies in Computational Intelligence</i> , 2010 , 225-232	0.8	1
233	An Interval Type-2 Fuzzy Neural Network for Chaotic Time Series Prediction with Cross-Validation and Akaike Test. <i>Studies in Computational Intelligence</i> , 2010 , 269-285	0.8	19
232	Fuzzy System to Control the Movement of a Wheeled Mobile Robot. <i>Studies in Computational Intelligence</i> , 2010 , 445-463	0.8	5
231	Fuzzy Logic for Parameter Tuning in Evolutionary Computation and Bio-inspired Methods. <i>Lecture Notes in Computer Science</i> , 2010 , 465-474	0.9	10
230	Bio-inspired Optimization Methods of Fuzzy Logic Controllers Applied to Linear Plants. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 245-252		1
229	Neuro-Fuzzy Based Output Feedback Controller Design for Biped Robot Walking. <i>Studies in Computational Intelligence</i> , 2010 , 423-444	0.8	1
228	Direct and Indirect Neural Identification and Control of a Continuous Bioprocess via Marquardt Learning. <i>Studies in Computational Intelligence</i> , 2010 , 81-102	0.8	1
227	Multi-Agent System Based on Psychological Models for Mobile Robots. <i>Studies in Computational Intelligence</i> , 2010 , 143-159	0.8	
226	An Application of Fuzzy Lyapunov Synthesis in the Design of Type-2 Fuzzy Logic Controllers. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 229-236		
225	Embedding a Fuzzy Locomotion Pose Controller for a Wheeled Mobile Robot into an FPGA. <i>Studies in Computational Intelligence</i> , 2010 , 465-481	0.8	
224	Simple Tuning of Type-2 Fuzzy Controllers. <i>Studies in Computational Intelligence</i> , 2010 , 103-123	0.8	
223	Increasing Energy Efficiency of a Preamble Sampling MAC Protocol for Wireless Sensor Networks Using a Fuzzy Logic Approach. <i>Studies in Computational Intelligence</i> , 2010 , 125-142	0.8	0
222	Multi-Agent System with Personality Profiles and Preferences and Learning for Autonomous Mobile Robot with Fuzzy Logic Support. <i>Studies in Computational Intelligence</i> , 2010 , 233-250	0.8	
221	Fuzzy Cellular Model for Predator-Prey Interaction Applied to the Control of Plagues in a Peppers Cropping. <i>Studies in Computational Intelligence</i> , 2010 , 329-351	0.8	
220	Comparative Study of Type-2 Fuzzy Inference System Optimization Based on the Uncertainty of Membership Functions. <i>Studies in Computational Intelligence</i> , 2010 , 103-120	0.8	1
219	Optimization of type-2 fuzzy logic controllers for mobile robots using evolutionary methods 2009 ,		13
218	Parameter tuning of membership functions of a fuzzy logic controller for an autonomous wheeled mobile robot using ant colony optimization 2009 ,		3
217	A hybrid approach with the wavelet transform, modular neural networks and fuzzy integrals for face and fingerprint recognition 2009 ,		1

216	Modeling and Simulation of the Defuzzification Stage of a Type-2 Fuzzy Controller Using the Xilinx System Generator and Simulink. <i>Studies in Computational Intelligence</i> , 2009 , 309-325	0.8	15
215	Design and Simulation of the Type-2 Fuzzification Stage: Using Active Membership Functions. <i>Studies in Computational Intelligence</i> , 2009 , 273-293	0.8	11
214	Face, Fingerprint and Voice Recognition with Modular Neural Networks and Fuzzy Integration. <i>Studies in Computational Intelligence</i> , 2009 , 69-79	0.8	6
213	Preface to the special issue on analysis and design of hybrid intelligent systems. <i>International Journal of Intelligent Systems</i> , 2009 , 24, 1077-1079	8.4	1
212	A cognitive map and fuzzy inference engine model for online design and self fine-tuning of fuzzy logic controllers. <i>International Journal of Intelligent Systems</i> , 2009 , 24, 1134-1173	8.4	23
211	Path planning for autonomous mobile robot navigation with ant colony optimization and fuzzy cost function evaluation. <i>Applied Soft Computing Journal</i> , 2009 , 9, 1102-1110	7.5	253
210	Type-1 and type-2 fuzzy inference systems as integration methods in modular neural networks for multimodal biometry and its optimization with genetic algorithms. <i>Information Sciences</i> , 2009 , 179, 2123-2145	7.7	70
209	A hybrid learning algorithm for a class of interval type-2 fuzzy neural networks. <i>Information Sciences</i> , 2009 , 179, 2175-2193	7.7	215
208	Optimization of interval type-2 fuzzy logic controllers for a perturbed autonomous wheeled mobile robot using genetic algorithms. <i>Information Sciences</i> , 2009 , 179, 2158-2174	7.7	260
207	Interval type-2 fuzzy logic and modular neural networks for face recognition applications. <i>Applied Soft Computing Journal</i> , 2009 , 9, 1377-1387	7.5	73
206	Evolutionary method combining particle swarm optimization and genetic algorithms using fuzzy logic for decision making 2009 ,		55
205	Parameter tuning of membership functions of a type-1 and type-2 fuzzy logic controller for an autonomous wheeled mobile robot using ant colony optimization 2009 ,		9
204	Intelligence techniques are needed to further enhance the advantage of groups with diversity in problem solving 2009 ,		7
203	Genetic design of biped walking fuzzy logic controller 2009 ,		2
202	2009 ,		2
201	Comparative study of fuzzy methods for response integration in ensemble neural networks. <i>International Journal of Advanced Intelligence Paradigms</i> , 2009 , 1, 291	0.5	
200	Interval Type-2 Fuzzy Logic Applications. <i>Studies in Computational Intelligence</i> , 2009 , 203-231	0.8	
199	Soft Computing Models for Intelligent Control of Non-linear Dynamical Systems. <i>Studies in Computational Intelligence</i> , 2009 , 43-70	0.8	2

198	Methodology to Test and Validate a VHDL Inference Engine of a Type-2 FIS, through the Xilinx System Generator. <i>Studies in Computational Intelligence</i> , 2009 , 295-308	0.8	9
197	Optimization of Fuzzy Response Integrators in Modular Neural Networks with Hierarchical Genetic Algorithms: The Case of Face, Fingerprint and Voice Recognition. <i>Studies in Computational Intelligence</i> , 2009 , 111-129	0.8	6
196	Particle Swarm Optimization Applied to the Design of Type-1 and Type-2 Fuzzy Controllers for an Autonomous Mobile Robot. <i>Studies in Computational Intelligence</i> , 2009 , 247-262	0.8	15
195	Interval Type-2 Fuzzy Cellular Model Applied to the Dynamics of a Uni-specific Population Induced by Environment Variations. <i>Studies in Computational Intelligence</i> , 2009 , 33-47	0.8	1
194	Optimization of Type-2 Fuzzy Integration in Modular Neural Networks Using an Evolutionary Method with Applications in Multimodal Biometry. <i>Lecture Notes in Computer Science</i> , 2009 , 454-465	0.9	9
193	Optimization of Membership Functions of a Fuzzy Logic Controller for an Autonomous Wheeled Mobile Robot Using Ant Colony Optimization. <i>Studies in Computational Intelligence</i> , 2009 , 3-16	0.8	
192	Comparative Study of Fuzzy Methods for Response Integration in Ensemble Neural Networks for Pattern Recognition. <i>Studies in Computational Intelligence</i> , 2009 , 123-140	0.8	2
191	Evolutionary Optimization of Type-2 Fuzzy Logic Systems Applied to Linear Plants. <i>Studies in Computational Intelligence</i> , 2009 , 17-31	0.8	6
190	Fuzzy Logic for Combining Particle Swarm Optimization and Genetic Algorithms: Preliminary Results. <i>Lecture Notes in Computer Science</i> , 2009 , 444-453	0.9	1
189	Genetic Optimization for the Design of Walking Patterns of a Biped Robot. <i>Studies in Computational Intelligence</i> , 2009 , 259-271	0.8	
188	Controlling Unstable Non-Minimum-Phase Systems with Fuzzy Logic: The Perturbed Case. <i>Studies in Computational Intelligence</i> , 2009 , 245-257	0.8	
187	Fuzzy Control for Output Regulation of a Servomechanism with Backlash. <i>Studies in Computational Intelligence</i> , 2008 , 19-28	0.8	5
186	Fingerprint recognition using the fuzzy Sugeno integral for response integration in modular neural networks. <i>International Journal of General Systems</i> , 2008 , 37, 499-515	2.1	8
185	Comparison between Ant Colony and Genetic Algorithms for Fuzzy System Optimization. <i>Studies in Computational Intelligence</i> , 2008 , 71-86	0.8	9
184	Simple tuned fuzzy controller embedded into an FPGA 2008 ,		11
183	Type-2 Fuzzy Logic: Theory and Applications. <i>Studies in Fuzziness and Soft Computing</i> , 2008 ,	0.7	231
182	Interval type-2 fuzzy inference systems as integration methods in modular neural networks for multimodal biometry and its optimisation with genetic algorithms. <i>International Journal of Biometrics</i> , 2008 , 1, 114	0.4	12
181	Modeling and Simulation of the Defuzzification Stage Using Xilinx System Generator and Simulink. <i>Studies in Computational Intelligence</i> , 2008 , 333-343	0.8	6

180	Optimization with Genetic Algorithms of Interval Type-2 Fuzzy Logic controllers for an autonomous wheeled mobile robot: A comparison under different kinds of perturbations 2008,	11
179	Intelligent control using an Interval Type-2 Fuzzy Neural Network with a hybrid learning algorithm 2008,	3
178	A New Evolutionary Method with a Hybrid Approach Combining Particle Swarm Optimization and Genetic Algorithms using Fuzzy Logic for Decision Making 2008,	12
177	Implementation of a Wireless Control System with Self Timed Activation for Mobile Robots 2008,	3
176	Hybrid Genetic-Fuzzy Optimization of a Type-2 Fuzzy Logic Controller 2008,	15
175	Fuzzy Cellular Model Applied to the Dynamics of a Uni-Specific Population Induced by Environment Variations 2008,	2
174	Building Fuzzy Inference Systems with a New Interval Type-2 Fuzzy Logic Toolbox 2008, 104-114	36
173	2008,	4
172	A hybrid learning algorithm for Interval Type-2 Fuzzy Neural Networks in time series prediction for the case of air pollution 2008,	10
171	Fuzzy-Neural control of a distributed parameter bioprocess plant 2008,	3
170	2008,	5
169	Reactive control of a mobile robot in a distributed environment using fuzzy logic 2008,	12
168	Computational intelligence software: Type-2 Fuzzy Logic and Modular Neural Networks 2008,	3
167	Optimization of Response Integration with Fuzzy Logic in Ensemble Neural Networks Using Genetic Algorithms. <i>Studies in Computational Intelligence</i> , 2008, 129-150	0.8 11
166	Genetic optimization of a Type-2 fuzzy controller for output regulation of a servomechanism with backlash 2008,	11
165	Fuzzy Modeling Fundamentals 2008, 1	2
164	Systematic design of a stable type-2 fuzzy logic controller. <i>Applied Soft Computing Journal</i> , 2008, 8, 1274-1279	72
163	2008,	9

162	Optimization of Interval Type-2 Fuzzy Logic Controllers for a Perturbed Autonomous Wheeled Mobile Robot Using Genetic Algorithms. <i>Studies in Computational Intelligence</i> , 2008 , 3-18	0.8	6
161	A Hybrid Model Based on a Cellular Automata and Fuzzy Logic to Simulate the Population Dynamics. <i>Studies in Computational Intelligence</i> , 2008 , 189-203	0.8	1
160	Modeling and Simulation by Petri Networks of a Fault Tolerant Agent Node. <i>Studies in Computational Intelligence</i> , 2008 , 251-267	0.8	
159	A New Evolutionary Method Combining Particle Swarm Optimization and Genetic Algorithms Using Fuzzy Logic. <i>Studies in Computational Intelligence</i> , 2008 , 347-361	0.8	2
158	Comparative Study of Type-1 and Type-2 Fuzzy Systems Optimized by Hierarchical Genetic Algorithms. <i>Studies in Computational Intelligence</i> , 2008 , 53-70	0.8	2
157	Stability on Type-1 and Type-2 Fuzzy Logic Systems. <i>Studies in Computational Intelligence</i> , 2008 , 29-51	0.8	2
156	A New Biometric Recognition Technique Based on Hand Geometry and Voice Using Neural Networks and Fuzzy Logic. <i>Studies in Computational Intelligence</i> , 2008 , 171-186	0.8	20
155	Design and Simulation of the Fuzzification Stage through the Xilinx System Generator. <i>Studies in Computational Intelligence</i> , 2008 , 297-305	0.8	9
154	Methodology to Test and Validate a VHDL Inference Engine through the Xilinx System Generator. <i>Studies in Computational Intelligence</i> , 2008 , 325-331	0.8	6
153	A Hybrid Learning Algorithm for Interval Type-2 Fuzzy Neural Networks: The Case of Time Series Prediction. <i>Studies in Computational Intelligence</i> , 2008 , 363-386	0.8	7
152	Optimization of Artificial Neural Network Architectures for Time Series Prediction Using Parallel Genetic Algorithms. <i>Studies in Computational Intelligence</i> , 2008 , 387-399	0.8	2
151	Design and Implementation of a Hybrid Fuzzy Controller Using VHDL. <i>Studies in Computational Intelligence</i> , 2008 , 437-446	0.8	3
150	Type-1 and Type-2 Fuzzy Inference Systems as Integration Methods in Modular Neural Networks for Multimodal Biometry and Its Optimization with Genetic Algorithms. <i>Studies in Computational Intelligence</i> , 2008 , 89-114	0.8	18
149	Systematic Design of a Stable Type-2 Fuzzy Logic Controller 2008 , 319-331		4
148	Mediative Fuzzy Logic: A New Approach for Contradictory Knowledge Management 2008 , 135-149		3
147	5 Design of Intelligent Systems with Interval Type-2 Fuzzy Logic 2007 , 53-76		6
146	Hierarchical genetic algorithms for topology optimization in fuzzy control systems. <i>International Journal of General Systems</i> , 2007 , 36, 575-591	2.1	37
145	Simple Sequencing and Selection of Learning Objects using Fuzzy Inference 2007 ,		2

144	Evolutionary optimization of interval type-2 membership functions using the Human Evolutionary Model. <i>IEEE International Conference on Fuzzy Systems</i> , 2007 ,		7
143	Type-2 Fuzzy Logic for Improving Training Data and Response Integration in Modular Neural Networks for Image Recognition. <i>Lecture Notes in Computer Science</i> , 2007 , 604-612	0.9	18
142	2007 ,		1
141	Hybrid Control for an Autonomous Wheeled Mobile Robot Under Perturbed Torques. <i>Lecture Notes in Computer Science</i> , 2007 , 594-603	0.9	12
140	Interval Type-2 Fuzzy Logic for Intelligent Control Applications 2007 ,		2
139	2007 ,		51
138	3 Type-2 Fuzzy Logic. <i>Studies in Fuzziness and Soft Computing</i> , 2007 , 29-43	0.7	24
137	An intelligent hybrid approach for industrial quality control combining neural networks, fuzzy logic and fractal theory. <i>Information Sciences</i> , 2007 , 177, 1543-1557	7.7	69
136	Human evolutionary model: A new approach to optimization. <i>Information Sciences</i> , 2007 , 177, 2075-2098	7.7	62
135	Experimental study of intelligent controllers under uncertainty using type-1 and type-2 fuzzy logic. <i>Information Sciences</i> , 2007 , 177, 2023-2048	7.7	190
134	A hybrid modular neural network architecture with fuzzy Sugeno integration for time series forecasting. <i>Applied Soft Computing Journal</i> , 2007 , 7, 1217-1226	7.5	65
133	An intuitionistic fuzzy system for time series analysis in plant monitoring and diagnosis. <i>Applied Soft Computing Journal</i> , 2007 , 7, 1227-1233	7.5	45
132	Interval-Related Talks at the North American Fuzzy Information Processing Society Annual Conference NAFIPS'07. <i>Reliable Computing</i> , 2007 , 13, 441-443		
131	Interval-Related Talks at the 2007 IEEE Symposium Series on Computational Intelligence. <i>Reliable Computing</i> , 2007 , 13, 435-440		
130	Mediative fuzzy logic: a new approach for contradictory knowledge management. <i>Soft Computing</i> , 2007 , 12, 251-256	3.5	10
129	10 Experimental Study of Intelligent Controllers Under Uncertainty Using Type-1 and Type-2 Fuzzy Logic. <i>Studies in Fuzziness and Soft Computing</i> , 2007 , 121-132	0.7	5
128	Building Fuzzy Inference Systems with the Interval Type-2 Fuzzy Logic Toolbox 2007 , 53-62		32
127	Comparison of Hybrid Intelligent Systems, Neural Networks and Interval Type-2 Fuzzy Logic for Time Series Prediction. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007 ,		16

126	2007,		7
125	Pattern Recognition for Industrial Monitoring and Security using the Fuzzy Sugeno Integral and Modular Neural Networks. <i>Neural Networks (IJCNN), International Joint Conference on, 2007,</i>		2
124	Optimal Path Planning for Autonomous Mobile Robot Navigation Using Ant Colony Optimization and a Fuzzy Cost Function Evaluation 2007, 790-798		11
123	An Efficient Computational Method to Implement Type-2 Fuzzy Logic in Control Applications 2007, 45-52		62
122	Evolutionary design and applications of hybrid intelligent systems. <i>International Journal of Innovative Computing and Applications, 2007,</i> 1, 48	0.4	1
121	2007,		6
120	Hybrid Learning Algorithm for Interval Type-2 Fuzzy Neural Networks 2007,		3
119	2007,		39
118	A New Method for Response Integration in Modular Neural Networks using Type-2 Fuzzy Logic for Biometric Systems. <i>Neural Networks (IJCNN), International Joint Conference on, 2007,</i>		5
117	An Interval Type-2 Fuzzy Logic Toolbox for Control Applications. <i>IEEE International Conference on Fuzzy Systems, 2007,</i>		66
116	Design of Hybrid Intelligent Systems 2007,		1
115	1 Introduction to Type-2 Fuzzy Logic. <i>Studies in Fuzziness and Soft Computing, 2007,</i> 1-4	0.7	2
114	A Method for Response Integration in Modular Neural Networks using Interval Type-2 Fuzzy Logic. <i>IEEE International Conference on Fuzzy Systems, 2007,</i>		5
113	Hybrid Learning Algorithm for Interval Type-2 Fuzzy Neural Networks 2007,		13
112	Intelligent Control and Planning of Autonomous Algorithms Mobile Robots Using Fuzzy Logic and Genetic 2007, 255-265		
111	Evolutionary Optimization of a Wiener Model 2007, 43-58		
110	Mediative Fuzzy Logic: A Novel Approach for Handling Contradictory Knowledge 2007, 75-91		
109	A Method for Creating Ensemble Neural Networks Using a Sampling Data Approach 2007, 355-364		0

108 Providing Intelligence to Evolutionary Computational Methods **2007**, 473-481

107 A Fuzzy Approach for the Sequencing of Didactic Resources in Educational Adaptive Hypermedia Systems **2007**, 885-892

106 11 Evolutionary Optimization of Interval Type-2 Membership Functions Using the Human Evolutionary Model. *Studies in Fuzziness and Soft Computing*, **2007**, 133-144 0.7 2

105 Evolutionary Computing for Topology Optimization of Type-2 Fuzzy Controllers **2007**, 163-178 17

104 Tracking Control for a Unicycle Mobile Robot Using a Fuzzy Logic Controller **2007**, 243-253 1

103 From Type-1 to Type-2 Fuzzy Logic Control: A Stability and Robustness Study **2007**, 135-149 2

102 Pattern Recognition for Industrial Security Using the Fuzzy Sugeno Integral and Modular Neural Networks **2007**, 105-114 2

101 A Method for Response Integration in Modular Neural Networks with Type-2 Fuzzy Logic for Biometric Systems **2007**, 5-15 11

100 Design of Modular Neural Networks with Fuzzy Integration Applied to Time Series Prediction **2007**, 265-273 10

99 Evolutionary Computing for the Optimization of Mathematical Functions **2007**, 463-472 4

98 Evolutionary Computing for Topology Optimization of Type-2 Fuzzy Systems **2007**, 63-75 14

97 Intelligent Control and Planning of Autonomous Mobile Robots Using Fuzzy Logic and Multiple Objective Genetic Algorithms **2007**, 799-807 3

96 A Method for Creating Ensemble Neural Networks Using a Sampling Data Approach **2007**, 772-780 3

95 15 A New Approach for Plant Monitoring Using Type-2 Fuzzy Logic and Fractal Theory. *Studies in Fuzziness and Soft Computing*, **2007**, 187-202 0.7 2

94 2 Type-1 Fuzzy Logic. *Studies in Fuzziness and Soft Computing*, **2007**, 5-28 0.7 2

93 Design of Stable Type-2 Fuzzy Logic Controllers based on a Fuzzy Lyapunov Approach **2006**, 9

92 **2006**, 2

91 Multiple Objective Genetic Algorithms for Path-planning Optimization in Autonomous Mobile Robots. *Soft Computing*, **2006**, 11, 269-279 3.5 84

90	Evolutionary Modeling Using A Wiener Model 2006 , 619-632		
89	Evolutionary Computing for Topology Optimization of Fuzzy Systems in Intelligent Control 2006 , 633-647		1
88	Theory of Fuzzy Chaos for the Simulation and Control of Nonlinear Dynamical Systems 2006 , 391-414		3
87	Modular Neural Networks. <i>Studies in Fuzziness and Soft Computing</i> , 2005 , 109-129	0.7	9
86	The Evolutionary Learning Rule in System Identification 2005 , 195-212		1
85	Intelligent control of a stepping motor drive using an adaptive neuro-fuzzy inference system. <i>Information Sciences</i> , 2005 , 170, 133-151	7.7	56
84	Preface to the special issue on soft computing for modeling, simulation, and control of nonlinear dynamical systems. <i>International Journal of Intelligent Systems</i> , 2005 , 20, 127-129	8.4	1
83	Face recognition using modular neural networks and the fuzzy Sugeno integral for response integration. <i>International Journal of Intelligent Systems</i> , 2005 , 20, 275-291	8.4	24
82	Black box evolutionary mathematical modeling applied to linear systems. <i>International Journal of Intelligent Systems</i> , 2005 , 20, 293-311	8.4	6
81	Application of a breeder genetic algorithm for filter optimization. <i>Natural Computing</i> , 2005 , 4, 11-37	1.3	1
80	Handling Uncertainty in Controllers Using Type-2 Fuzzy Logic. <i>Journal of Intelligent Systems</i> , 2005 , 14,	1.5	4
79	Introduction to Pattern Recognition with Intelligent Systems. <i>Studies in Fuzziness and Soft Computing</i> , 2005 , 1-5	0.7	2
78	Human Evolutionary Model. <i>Journal of Intelligent Systems</i> , 2005 , 14,	1.5	1
77	Hybrid Intelligent Systems for Pattern Recognition Using Soft Computing. <i>Studies in Fuzziness and Soft Computing</i> , 2005 ,	0.7	89
76	Hierarchical genetic algorithms for fuzzy system optimization in intelligent control 2004 ,		4
75	A New Method for Adaptive Control of Non-Linear Plants Using Type-2 Fuzzy Logic and Neural Networks. <i>International Journal of General Systems</i> , 2004 , 33, 289-304	2.1	62
74	A new approach for plant monitoring using type-2 fuzzy logic and fractal theory. <i>International Journal of General Systems</i> , 2004 , 33, 305-319	2.1	23
73	Intelligent control of a stepping motor drive using a hybrid neuro-fuzzy approach. <i>Soft Computing</i> , 2004 , 8, 546-555	3.5	13

72	Application of a breeder genetic algorithm for finite impulse filter optimization. <i>Information Sciences</i> , 2004 , 161, 139-158	7.7	9
71	Automated Quality Control in Sound Speakers Manufacturing Using a Hybrid Neuro-Fuzzy-Fractal Approach 2004 , 401-417		
70	A New Hybrid Fuzzy-Fractal Approach for Plant Monitoring and Diagnostics. <i>International Journal of Smart Engineering System Design</i> , 2003 , 5, 417-427		1
69	Intelligent Control of the Electrical Tuning Process for the Manufacturing of Televisions Using Soft Computing Techniques. <i>International Journal of Smart Engineering System Design</i> , 2003 , 5, 455-466		
68	A New Method for Adaptive Model-Based Control of Dynamic Industrial Plants using Neural Networks, Fuzzy Logic and Fractal Theory. <i>Systems Analysis Modelling Simulation</i> , 2003 , 43, 1-15		1
67	Application of a New Theory of Fuzzy Chaos for the Simulation and Control of NonLinear Dynamical Systems. <i>Systems Analysis Modelling Simulation</i> , 2003 , 43, 847-865		
66	The evolutionary learning rule for system identification. <i>Applied Soft Computing Journal</i> , 2003 , 3, 343-352	7.5	20
65	Intelligent adaptive model-based control of robotic dynamic systems with a hybrid fuzzy-neural approach. <i>Applied Soft Computing Journal</i> , 2003 , 3, 363-378	7.5	61
64	Adaptive intelligent control of aircraft systems with a hybrid approach combining neural networks, fuzzy logic and fractal theory. <i>Applied Soft Computing Journal</i> , 2003 , 3, 353-362	7.5	74
63	Special issue on soft computing for control of non-linear dynamical systems. <i>Applied Soft Computing Journal</i> , 2003 , 3, 303-304	7.5	2
62	Intelligent control of a stepping motor drive using a hybrid neuro-fuzzy ANFIS approach. <i>Applied Soft Computing Journal</i> , 2003 , 3, 209-219	7.5	69
61	A Hybrid Fuzzy-Fractal Approach for Time Series Analysis and Prediction and Its Applications to Plant Monitoring 2003 , 419-430		
60	Soft Computing and Fractal Theory for Intelligent Manufacturing. <i>Studies in Fuzziness and Soft Computing</i> , 2003 ,	0.7	39
59	A hybrid fuzzy-fractal approach for time series analysis and plant monitoring. <i>International Journal of Intelligent Systems</i> , 2002 , 17, 751-765	8.4	7
58	Intelligent control of aircraft dynamic systems with a new hybrid neuroFuzzyFractal approach. <i>Information Sciences</i> , 2002 , 142, 161-175	7.7	14
57	Adaptive Model-Based Control of Non-Linear Dynamical Systems with a Neuro-Fuzzy-Genetic Approach. <i>International Journal of Smart Engineering System Design</i> , 2002 , 4, 41-47		3
56	A NEW METHOD FOR ADAPTIVE CONTROL OF NON-LINEAR PLANTS USING TYPE-2 FUZZY LOGIC AND NEURAL NETWORKS 2002 ,		12
55	Hybrid intelligent systems for time series prediction using neural networks, fuzzy logic, and fractal theory. <i>IEEE Transactions on Neural Networks</i> , 2002 , 13, 1395-408		126

54	A Breeder Genetic Algorithm for Adaptive Filter Optimization 2002 , 145-155		
53	Soft Computing for Control of Dynamical Systems 2002 , 99-102		
52	A Hybrid Fuzzy-Fractal Approach for Time Series Analysis and Prediction and Its Applications to Plant Monitoring. <i>Power Systems</i> , 2002 , 209-219	0.4	1
51	Intelligent Control of Robotic Autonomous Systems using a Neuro-Fuzzy-Genetic Approach 2002 , 157-166		0
50	Adaptive Model-Based Control of Non-linear Plants Using Soft Computing Techniques. <i>Power Systems</i> , 2002 , 63-74	0.4	
49	A new method for adaptive model-based control of non-linear dynamic plants using a neuro-fuzzy-fractal approach. <i>Soft Computing</i> , 2001 , 5, 171-177	3.5	22
48	Intelligent control of complex electrochemical systems with a neuro-fuzzy-genetic approach. <i>IEEE Transactions on Industrial Electronics</i> , 2001 , 48, 951-955	8.9	77
47	Soft Computing for Control of Non-Linear Dynamical Systems. <i>Studies in Fuzziness and Soft Computing</i> , 2001 ,	0.7	69
46	INTELLIGENT ADAPTIVE MODEL-BASED CONTROL OF ROBOTIC DYNAMIC SYSTEMS WITH A NEW HYBRID NEURO-FUZZY-FRACTAL APPROACH 2000 ,		5
45	Modelling, Simulation and Behavior Identification of Non-Linear Dynamical Systems with a New Fuzzy-Fractal-Genetic Approach. <i>Advances in Fuzzy Systems</i> , 2000 , 95-106		1
44	Modelling complex dynamical systems with a new fuzzy inference system for differential equations: the case of robotic dynamic systems 1999 ,		1
43	Intelligent quality control for manufacturing in the food industry using a new fuzzy-fractal approach 1999 ,		2
42	Automated mathematical modelling, simulation and behavior identification of robotic dynamic systems using a new fuzzy-fractal-genetic approach. <i>Robotics and Autonomous Systems</i> , 1999 , 28, 19-30	3.5	12
41	DEVELOPING A NEW METHOD FOR THE IDENTIFICATION OF MICROORGANISMS FOR THE FOOD INDUSTRY USING THE FRACTAL DIMENSION. <i>Fractals</i> , 1994 , 02, 457-460	3.2	19
40	Simulation and forecasting of international trade dynamics using non-linear mathematical models and fuzzy logic techniques		3
39	A new fuzzy-genetic approach for the simulation and forecasting of international trade non-linear dynamics		8
38	Design of Intelligent Systems with Interval Type-2 Fuzzy Logic 575-601		1
37	Evolutionary computing for optimizing type-2 fuzzy systems in intelligent control of non-linear dynamic plants		18

36	Handling Uncertainty in Controllers Using Type-2 Fuzzy Logic	9
35	Integrated development platform for intelligent control based on type-2 fuzzy logic	4
34	Interval Type-2 TSK Fuzzy Logic Systems Using Hybrid Learning Algorithm	29
33	Fuzzy logic for plant monitoring and diagnostics	1
32	Adaptive noise cancellation using type-2 fuzzy logic and neural networks	15
31	A new method for fuzzy inference in intuitionistic fuzzy systems	6
30	Intelligent control of the transmission power in cellular phones using fuzzy logic	1
29	A new hybrid approach for plant monitoring and diagnostics using type-2 fuzzy logic and fractal theory	7
28	A new method for adaptive model-based control of non-linear plants using type-2 fuzzy logic and neural networks	10
27	A reprogrammable hardware fuzzy controller for the battery charging process	1
26	Fingerprint recognition using modular neural networks and fuzzy integrals for response integration	4
25	Optimization of modular neural networks using hierarchical genetic algorithms applied to speech recognition	3
24	Simulation and forecasting complex economic time series using neural networks and fuzzy logic	13
23	Adaptive control of a stepping motor drive using a hybrid neuro-fuzzy approach	2
22	Simulation and forecasting complex financial time series using neural networks and fuzzy logic	21
21	A new fuzzy-fractal approach for forecasting financial and economic time series	3
20	A new hybrid approach for plant monitoring and diagnostics combining type-2 fuzzy logic and fractal theory	2
19	Intelligent control of non-linear dynamic plants using type-2 fuzzy logic and neural networks	3

18	A new method for fuzzy estimation of the fractal dimension and its applications to time series analysis and pattern recognition		5
17	Application of a breeder genetic algorithm for system identification in an adaptive finite impulse response filter		2
16	A new fuzzy-fractal-genetic method for automated mathematical modelling and simulation of robotic dynamic systems		19
15	An adaptive model-based neuro-fuzzy-fractal controller for biochemical reactors in the food industry		7
14	A general method for surface quality control in intelligent manufacturing of materials using a new fuzzy-fractal approach		1
13	Automated mathematical modelling for financial time series prediction using fuzzy logic, dynamical systems and fractal theory		14
12	On the dynamical investigation and synchronization of variable-order fractional neural networks: the Hopfield-like neural network model. <i>European Physical Journal: Special Topics</i> ,1	2.3	0
11	Multi-objective quantum tunicate swarm optimization with deep learning model for intelligent dystrophinopathies diagnosis. <i>Soft Computing</i> ,1	3.5	1
10	Modelling, Simulation and Control of Non-Linear Dynamical Systems		30
9	Intelligent control of dynamic systems using type-2 fuzzy logic and stability issues. <i>International Mathematical Forum</i> ,1371-1382	4.6	21
8	Improving the human evolutionary model: An intelligent optimization method. <i>International Mathematical Forum</i> ,2, 21-44	4.6	2
7	Comparative analysis of noise robustness of type 2 fuzzy logic controllers. <i>Kybernetika</i> ,175-201		55
6	Generalized-Hukuhara-Gradient Efficient-Direction Method to Solve Optimization Problems with Interval-Valued Functions and Its Application in Least-Squares Problems. <i>International Journal of Fuzzy Systems</i> ,1	3.6	3
5	Dynamic parameter adaptation in Ant Colony Optimization using a fuzzy system for TSP problems		10
4	Statistical Analysis of Type-1 and Interval Type-2 Fuzzy Logic in dynamic parameter adaptation of the BCO		18
3	An Exhaustive Review of Bio-Inspired Algorithms and its Applications for Optimization in Fuzzy Clustering		2
2	Optimal Setting of Membership Functions for Interval Type-2 Fuzzy Tracking Controllers Using a Shark Smell Metaheuristic Algorithm. <i>International Journal of Fuzzy Systems</i> ,1	3.6	7
1	New Concepts on Quadripartitioned Single-Valued Neutrosophic Graph with Real-Life Application. <i>International Journal of Fuzzy Systems</i> ,1	3.6	1

