#### Oscar Castillo

#### List of Publications by Citations

Source: https://exaly.com/author-pdf/5929820/oscar-castillo-publications-by-citations.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
 14,767
 66
 99

 papers
 citations
 h-index
 g-index

 1,009
 17,079
 2
 7.53

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
863	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> , <b>2016</b> , 354, 257-274	7.7	275
862	Optimization of interval type-2 fuzzy logic controllers for a perturbed autonomous wheeled mobile robot using genetic algorithms. <i>Information Sciences</i> , <b>2009</b> , 179, 2158-2174	7.7	260
861	A review on the design and optimization of interval type-2 fuzzy controllers. <i>Applied Soft Computing Journal</i> , <b>2012</b> , 12, 1267-1278	7.5	257
860	Path planning for autonomous mobile robot navigation with ant colony optimization and fuzzy cost function evaluation. <i>Applied Soft Computing Journal</i> , <b>2009</b> , 9, 1102-1110	7.5	253
859	Type-2 Fuzzy Logic: Theory and Applications. Studies in Fuzziness and Soft Computing, 2008,	0.7	231
858	A hybrid learning algorithm for a class of interval type-2 fuzzy neural networks. <i>Information Sciences</i> , <b>2009</b> , 179, 2175-2193	7.7	215
857	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> , <b>2015</b> , 42, 5904-5914	7.8	203
856	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> , <b>2012</b> , 192, 19-38	7.7	202
855	Optimal design of fuzzy classification systems using PSO with dynamic parameter adaptation through fuzzy logic. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 3196-3206	7.8	195
854	Experimental study of intelligent controllers under uncertainty using type-1 and type-2 fuzzy logic. <i>Information Sciences</i> , <b>2007</b> , 177, 2023-2048	7.7	190
853	Edge-Detection Method for Image Processing Based on Generalized Type-2 Fuzzy Logic. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2014</b> , 22, 1515-1525	8.3	180
852	A generalized type-2 fuzzy granular approach with applications to aerospace. <i>Information Sciences</i> , <b>2016</b> , 354, 165-177	7.7	178
851	A review on type-2 fuzzy logic applications in clustering, classification and pattern recognition. <i>Applied Soft Computing Journal</i> , <b>2014</b> , 21, 568-577	7.5	174
850	A review on interval type-2 fuzzy logic applications in intelligent control. <i>Information Sciences</i> , <b>2014</b> , 279, 615-631	7.7	172
849	An improved evolutionary method with fuzzy logic for combining Particle Swarm Optimization and Genetic Algorithms. <i>Applied Soft Computing Journal</i> , <b>2011</b> , 11, 2625-2632	7.5	162
848	Optimization of type-2 fuzzy systems based on bio-inspired methods: A concise review. <i>Information Sciences</i> , <b>2012</b> , 205, 1-19	7.7	140
847	Type-2 fuzzy logic aggregation of multiple fuzzy controllers for airplane flight control. <i>Information Sciences</i> , <b>2015</b> , 324, 247-256	7.7	138

# (2014-2015)

846	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> , <b>2015</b> , 28, 150-159	7.5	133	
845	A fuzzy hierarchical operator in the grey wolf optimizer algorithm. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 57, 315-328	7.5	131	
844	Information granule formation via the concept of uncertainty-based information with Interval Type-2 Fuzzy Sets representation and TakagiBugenoRang consequents optimized with Cuckoo search. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 27, 602-609	7.5	126	
843	Hybrid intelligent systems for time series prediction using neural networks, fuzzy logic, and fractal theory. <i>IEEE Transactions on Neural Networks</i> , <b>2002</b> , 13, 1395-408		126	
842	A new approach for time series prediction using ensembles of ANFIS models. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 3494-3506	7.8	125	
841	Ant colony optimization with dynamic parameter adaptation based on interval type-2 fuzzy logic systems. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 53, 74-87	7.5	123	
840	Particle swarm optimization of interval type-2 fuzzy systems for FPGA applications. <i>Applied Soft Computing Journal</i> , <b>2013</b> , 13, 496-508	7.5	121	
839	An improved sobel edge detection method based on generalized type-2 fuzzy logic. <i>Soft Computing</i> , <b>2016</b> , 20, 773-784	3.5	120	
838	Optimization of modular granular neural networks using a firefly algorithm for human recognition. <i>Engineering Applications of Artificial Intelligence</i> , <b>2017</b> , 64, 172-186	7.2	116	
837	Optimization of interval type-2 fuzzy systems for image edge detection. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 47, 631-643	7.5	113	
836	An improved method for edge detection based on interval type-2 fuzzy logic. <i>Expert Systems With Applications</i> , <b>2010</b> , 37, 8527-8535	7.8	113	
835	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> , <b>2013</b> , 40, 3185-3195	7.8	112	
834	A review on the applications of type-2 fuzzy logic in classification and pattern recognition. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 5413-5423	7.8	111	
833	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> , <b>2012</b> , 39, 4590-4598	7.8	109	
832	Optimization of fuzzy controller design using a new bee colony algorithm with fuzzy dynamic parameter adaptation. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 43, 131-142	7.5	105	
831	Optimization of type-2 fuzzy weights in backpropagation learning for neural networks using GAs and PSO. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 38, 860-871	7.5	104	
830	Optimization of interval type-2 fuzzy logic controllers using evolutionary algorithms. <i>Soft Computing</i> , <b>2011</b> , 15, 1145-1160	3.5	102	
829	Interval type-2 fuzzy weight adjustment for backpropagation neural networks with application in time series prediction. <i>Information Sciences</i> , <b>2014</b> , 260, 1-14	7.7	100	

828	Fuzzy granular gravitational clustering algorithm for multivariate data. <i>Information Sciences</i> , <b>2014</b> , 279, 498-511	7.7	100
827	Design of interval type-2 fuzzy models through optimal granularity allocation. <i>Applied Soft Computing Journal</i> , <b>2011</b> , 11, 5590-5601	7.5	99
826	Designing Type-1 and Type-2 Fuzzy Logic Controllers via Fuzzy Lyapunov Synthesis for nonsmooth mechanical systems. <i>Engineering Applications of Artificial Intelligence</i> , <b>2012</b> , 25, 971-979	7.2	98
825	A survey on nature-inspired optimization algorithms with fuzzy logic for dynamic parameter adaptation. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 6459-6466	7.8	97
824	Dynamic parameter adaptation in particle swarm optimization using interval type-2 fuzzy logic. <i>Soft Computing</i> , <b>2016</b> , 20, 1057-1070	3.5	93
823	High order planes integration: A new approach to computational cost reduction of General Type-2 Fuzzy Systems. <i>Engineering Applications of Artificial Intelligence</i> , <b>2018</b> , 74, 186-197	7.2	93
822	A new neural network model based on the LVQ algorithm for multi-class classification of arrhythmias. <i>Information Sciences</i> , <b>2014</b> , 279, 483-497	7.7	93
821	A generalized type-2 fuzzy logic approach for dynamic parameter adaptation in bee colony optimization applied to fuzzy controller design. <i>Information Sciences</i> , <b>2018</b> , 460-461, 476-496	7.7	92
820	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> , <b>2011</b> , 41, 1001-1012		92
819	Interval type-2 fuzzy logic for dynamic parameter adaptation in a modified gravitational search algorithm. <i>Information Sciences</i> , <b>2019</b> , 476, 159-175	7.7	92
818	Genetic optimization of modular neural networks with fuzzy response integration for human recognition. <i>Information Sciences</i> , <b>2012</b> , 197, 1-19	7.7	91
817	Hybrid Intelligent Systems for Pattern Recognition Using Soft Computing. <i>Studies in Fuzziness and Soft Computing</i> , <b>2005</b> ,	0.7	89
816	Multiple Ensemble Neural Network Models with Fuzzy Response Aggregation for Predicting COVID-19 Time Series: The Case of Mexico. <i>Healthcare (Switzerland)</i> , <b>2020</b> , 8,	3.4	88
815	Particle swarm optimization of ensemble neural networks with fuzzy aggregation for time series prediction of the Mexican Stock Exchange. <i>Information Sciences</i> , <b>2014</b> , 280, 188-204	7.7	86
814	Multiple Objective Genetic Algorithms for Path-planning Optimization in Autonomous Mobile Robots. <i>Soft Computing</i> , <b>2006</b> , 11, 269-279	3.5	84
813	Simulation of the bird age-structured population growth based on an interval type-2 fuzzy cellular structure. <i>Information Sciences</i> , <b>2011</b> , 181, 519-535	7.7	80
812	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> , <b>2010</b> , 37, 4368-4378	7.8	80
811	Embedding a high speed interval type-2 fuzzy controller for a real plant into an FPGA. <i>Applied Soft Computing Journal</i> , <b>2012</b> , 12, 988-998	7.5	78

810	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> , <b>2012</b> , 39, 2947-2955	7.8	77
809	Intelligent control of complex electrochemical systems with a neuro-fuzzy-genetic approach. <i>IEEE Transactions on Industrial Electronics</i> , <b>2001</b> , 48, 951-955	8.9	77
808	Application of interval type-2 fuzzy neural networks in non-linear identification and time series prediction. <i>Soft Computing</i> , <b>2014</b> , 18, 1213-1224	3.5	75
807	Analysis of Spatial Spread Relationships of Coronavirus (COVID-19) Pandemic in the World using Self Organizing Maps. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 138, 109917	9.3	74
806	Adaptive intelligent control of aircraft systems with a hybrid approach combining neural networks, fuzzy logic and fractal theory. <i>Applied Soft Computing Journal</i> , <b>2003</b> , 3, 353-362	7.5	74
805	Interval type-2 fuzzy logic and modular neural networks for face recognition applications. <i>Applied Soft Computing Journal</i> , <b>2009</b> , 9, 1377-1387	7.5	73
804	Systematic design of a stable type-2 fuzzy logic controller. <i>Applied Soft Computing Journal</i> , <b>2008</b> , 8, 127	4 <del>7</del> 13279	9 72
803	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> , <b>2020</b> , 87, 105943	7.5	72
802	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> , <b>2014</b> , 270, 143-153	7.7	71
801	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> , <b>2009</b> , 179, 212	3 <sup>7</sup> 2 <sup>7</sup> 14!	5 <sup>70</sup>
800	An intelligent hybrid approach for industrial quality control combining neural networks, fuzzy logic and fractal theory. <i>Information Sciences</i> , <b>2007</b> , 177, 1543-1557	7.7	69
799	Intelligent control of a stepping motor drive using a hybrid neuro-fuzzy ANFIS approach. <i>Applied Soft Computing Journal</i> , <b>2003</b> , 3, 209-219	7.5	69
798	Soft Computing for Control of Non-Linear Dynamical Systems. <i>Studies in Fuzziness and Soft Computing</i> , <b>2001</b> ,	0.7	69
797	An Interval Type-2 Fuzzy Logic Toolbox for Control Applications. <i>IEEE International Conference on Fuzzy Systems</i> , <b>2007</b> ,		66
796	A comprehensive review on type 2 fuzzy logic applications: Past, present and future. <i>Engineering Applications of Artificial Intelligence</i> , <b>2020</b> , 95, 103916	7.2	66
795	A hybrid modular neural network architecture with fuzzy Sugeno integration for time series forecasting. <i>Applied Soft Computing Journal</i> , <b>2007</b> , 7, 1217-1226	7.5	65
794	Human evolutionary model: A new approach to optimization. <i>Information Sciences</i> , <b>2007</b> , 177, 2075-209	87.7	62
793	An Efficient Computational Method to Implement Type-2 Fuzzy Logic in Control Applications <b>2007</b> , 45-	52	62

792	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> , <b>2004</b> , 33, 289-304	2.1	62
791	Intelligent adaptive model-based control of robotic dynamic systems with a hybrid fuzzy-neural approach. <i>Applied Soft Computing Journal</i> , <b>2003</b> , 3, 363-378	7.5	61
790	A Grey Wolf Optimizer for Modular Granular Neural Networks for Human Recognition. <i>Computational Intelligence and Neuroscience</i> , <b>2017</b> , 2017, 4180510	3	60
789	A new gravitational search algorithm using fuzzy logic to parameter adaptation 2013,		60
788	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> , <b>2017</b> , 52, 1070-1083	7.5	60
787	Fuzzy higher type information granules from an uncertainty measurement. <i>Granular Computing</i> , <b>2017</b> , 2, 95-103	5.4	57
786	Intelligent control of a stepping motor drive using an adaptive neuro?fuzzy inference system. <i>Information Sciences</i> , <b>2005</b> , 170, 133-151	7.7	56
785	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> <b>2020</b> , 140, 110242	9.3	56
7 <sup>8</sup> 4	An Extension of the Fuzzy Possibilistic Clustering Algorithm Using Type-2 Fuzzy Logic Techniques. <i>Advances in Fuzzy Systems</i> , <b>2017</b> , 2017, 1-23	1.7	55
7 <sup>8</sup> 3	Evolutionary method combining particle swarm optimization and genetic algorithms using fuzzy logic for decision making <b>2009</b> ,		55
782	Comparative analysis of noise robustness of type 2 fuzzy logic controllers. Kybernetika,175-201		55
781	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> , <b>2018</b> , 22, 571-594	3.5	54
780	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> , <b>2015</b> , 294, 203-215	7.7	53
779	Comparative study of interval Type-2 and general Type-2 fuzzy systems in medical diagnosis. <i>Information Sciences</i> , <b>2020</b> , 525, 37-53	7.7	52
778	2007,		51
777	Fuzzy Sets in Dynamic Adaptation of Parameters of a Bee Colony Optimization for Controlling the Trajectory of an Autonomous Mobile Robot. <i>Sensors</i> , <b>2016</b> , 16,	3.8	51
776	Finite-interval-valued Type-2 Gaussian fuzzy numbers applied to fuzzy TODIM in a healthcare problem. <i>Engineering Applications of Artificial Intelligence</i> , <b>2020</b> , 87, 103352	7.2	50
775	Type-1 and Type-2 fuzzy logic controller design using a Hybrid PSOGA optimization method. <i>Information Sciences</i> , <b>2014</b> , 285, 35-49	7.7	49

# (2019-2012)

Type-2 Fuzzy Logic in Intelligent Control Applications. <i>Studies in Fuzziness and Soft Computing</i> , <b>2012</b> ,	0.7	49
Early diagnosis of COVID-19-affected patients based on X-ray and computed tomography images using deep learning algorithm. <i>Soft Computing</i> , <b>2020</b> , 1-9	3.5	49
A novel multi-objective evolutionary algorithm with fuzzy logic based adaptive selection of operators: FAME. <i>Information Sciences</i> , <b>2019</b> , 471, 233-251	7.7	49
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> , <b>2015</b> , 6, 175-196	3.8	48
Design of an interval Type-2 fuzzy model with justifiable uncertainty. <i>Information Sciences</i> , <b>2020</b> , 513, 206-221	7.7	47
A New Fuzzy Harmony Search Algorithm Using Fuzzy Logic for Dynamic Parameter Adaptation. <i>Algorithms</i> , <b>2016</b> , 9, 69	1.8	47
Dynamic Fuzzy Logic Parameter Tuning for ACO and Its Application in TSP Problems. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 259-271	0.8	46
A New Approach for Time Series Prediction Using Ensembles of IT2FNN Models with Optimization of Fuzzy Integrators. <i>International Journal of Fuzzy Systems</i> , <b>2018</b> , 20, 701-728	3.6	45
New Methodology to Approximate Type-Reduction Based on a Continuous Root-Finding Karnik Mendel Algorithm. <i>Algorithms</i> , <b>2017</b> , 10, 77	1.8	45
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> , <b>2014</b> , 11, 211-22	26 <sup>0.9</sup>	45
An intuitionistic fuzzy system for time series analysis in plant monitoring and diagnosis. <i>Applied Soft Computing Journal</i> , <b>2007</b> , 7, 1227-1233	7.5	45
Generalized type-2 fuzzy weight adjustment for backpropagation neural networks in time series prediction. <i>Information Sciences</i> , <b>2015</b> , 325, 159-174	7.7	44
Comparative Study of Type-2 Fuzzy Particle Swarm, Bee Colony and Bat Algorithms in Optimization of Fuzzy Controllers. <i>Algorithms</i> , <b>2017</b> , 10, 101	1.8	44
Review of Recent Type-2 Fuzzy Controller Applications. <i>Algorithms</i> , <b>2016</b> , 9, 39	1.8	44
An approach for parameterized shadowed type-2 fuzzy membership functions applied in control applications. <i>Soft Computing</i> , <b>2019</b> , 23, 3887-3901	3.5	44
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> , <b>2020</b> , 38, 3229-3252	1.6	43
Optimization of modular granular neural networks using a hierarchical genetic algorithm based on the database complexity applied to human recognition. <i>Information Sciences</i> , <b>2015</b> , 309, 73-101	7.7	42
A high-speed interval type 2 fuzzy system approach for dynamic parameter adaptation in metaheuristics. <i>Engineering Applications of Artificial Intelligence</i> , <b>2019</b> , 85, 666-680	7.2	39
	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  A novel multi-objective evolutionary algorithm with fuzzy logic based adaptive selection of operators: FAME. <i>Information Sciences</i> , 2019, 471, 233-251  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  Design of an interval Type-2 fuzzy model with justifiable uncertainty. <i>Information Sciences</i> , 2020, 513, 206-221  A New Fuzzy Harmony Search Algorithm Using Fuzzy Logic for Dynamic Parameter Adaptation. <i>Algorithms</i> , 2016, 9, 69  Dynamic Fuzzy Logic Parameter Tuning for ACO and Its Application in TSP Problems. <i>Studies in Computational Intelligence</i> , 2013, 259-271  A New Approach for Time Series Prediction Using Ensembles of ITZFNN Models with Optimization of Fuzzy Integrators. <i>International Journal of Fuzzy Systems</i> , 2018, 20, 701-728  New Methodology to Approximate Type-Reduction Based on a Continuous Root-Finding Karnik Mendel Algorithm. <i>Algorithms</i> , 2017, 10, 77  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, 211-22  An intuitionistic fuzzy system for time series analysis in plant monitoring and diagnosis. <i>Applied Soft Computing Journal</i> , 2007, 7, 1227-1233  Generalized type-2 fuzzy weight adjustment for backpropagation neural networks in time series prediction. <i>Information Sciences</i> , 2015, 325, 159-174  Comparative Study of Type-2 Fuzzy Particle Swarm, Bee Colony and Bat Algorithms in Optimization of Fuzzy Controllers. <i>Algorithms</i> , 2017, 10, 101  Review of Recent Type-2 Fuzzy Controller Applications. <i>Algorithms</i> , 2016, 9, 39  An approach for parameterized shadowed type-2 fuzzy membership functions applied in control applications. <i>Soft Computing</i> , 2019, 23, 3887-3901	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  A novel multi-objective evolutionary algorithm with fuzzy logic based adaptive selection of operators: FAME. <i>Information Sciences</i> , 2019, 471, 233-251  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  Design of an interval Type-2 fuzzy model with justifiable uncertainty. <i>Information Sciences</i> , 2020, 573, 206-221  A New Fuzzy Harmony Search Algorithm Using Fuzzy Logic for Dynamic Parameter Adaptation. <i>Algorithms</i> , 2016, 9, 69  Dynamic Fuzzy Logic Parameter Tuning for ACO and Its Application in TSP Problems. <i>Studies in Computational Intelligence</i> , 2013, 259-271  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  New Methodology to Approximate Type-Reduction Based on a Continuous Root-Finding Karnik Mendel Algorithm. <i>Algorithms</i> , 2017, 10, 77  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, 211-226-9  An intuitionistic fuzzy system for time series analysis in plant monitoring and diagnosis. <i>Applied Soft Computing Journal</i> , 2007, 7, 1227-1233  Generalized type-2 fuzzy weight adjustment for backpropagation neural networks in time series prediction. <i>Information Sciences</i> , 2015, 325, 159-174  Comparative Study of Type-2 Fuzzy Particle Swarm, Bee Colony and Bat Algorithms in Optimization of Fuzzy Controllers. <i>Algorithms</i> , 2017, 10, 101  Review of Recent Type-2 Fuzzy Controller Applications. <i>Algorithms</i> , 2016, 9, 39  1.8  An approach for parameterized shadowed type-2 fuzzy membership functions applied in control applications. <i>Soft Computing</i> , 2019, 23, 38

756	Comparative Study in Fuzzy Controller Optimization Using Bee Colony, Differential Evolution, and Harmony Search Algorithms. <i>Algorithms</i> , <b>2019</b> , 12, 9	1.8	39
755	A New Approach to Multiple Time Series Prediction Using MIMO Fuzzy Aggregation Models with Modular Neural Networks. <i>International Journal of Fuzzy Systems</i> , <b>2019</b> , 21, 1629-1648	3.6	39
754	2007,		39
753	Soft Computing and Fractal Theory for Intelligent Manufacturing. <i>Studies in Fuzziness and Soft Computing</i> , <b>2003</b> ,	0.7	39
752	Hierarchical genetic algorithms for topology optimization in fuzzy control systems. <i>International Journal of General Systems</i> , <b>2007</b> , 36, 575-591	2.1	37
751	Interval type-2 fuzzy logic for dynamic parameter adaptation in the bat algorithm. <i>Soft Computing</i> , <b>2017</b> , 21, 667-685	3.5	36
750	Imperialist Competitive Algorithm with Dynamic Parameter Adaptation Using Fuzzy Logic Applied to the Optimization of Mathematical Functions. <i>Algorithms</i> , <b>2017</b> , 10, 18	1.8	36
749	Building Fuzzy Inference Systems with a New Interval Type-2 Fuzzy Logic Toolbox <b>2008</b> , 104-114		36
748	Designing a general type-2 fuzzy expert system for diagnosis of depression. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 80, 329-341	7.5	33
747	A Hybrid Approach for Modular Neural Network Design Using Intercriteria Analysis and Intuitionistic Fuzzy Logic. <i>Complexity</i> , <b>2018</b> , 2018, 1-11	1.6	32
746	Optimal design of interval type 2 fuzzy controllers based on a simple tuning algorithm. <i>Applied Soft Computing Journal</i> , <b>2014</b> , 23, 270-285	7.5	32
745	Building Fuzzy Inference Systems with the Interval Type-2 Fuzzy Logic Toolbox <b>2007</b> , 53-62		32
744	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> , <b>2020</b> , 24, 193-214	3.5	32
743	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> , <b>2018</b> , 71, 175-189	7.2	31
742	Review of Recent Type-2 Fuzzy Image Processing Applications. <i>Information (Switzerland)</i> , <b>2017</b> , 8, 97	2.6	31
741	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> , <b>2017</b> , 10, 85	1.8	30
740	Modelling, Simulation and Control of Non-Linear Dynamical Systems		30
739	A state of the art review of intelligent scheduling. <i>Artificial Intelligence Review</i> , <b>2020</b> , 53, 501-593	9.7	30

# (2015-2021)

738	Optimization of Type-2 Fuzzy Logic Controller Design Using the GSO and FA Algorithms. <i>International Journal of Fuzzy Systems</i> , <b>2021</b> , 23, 42-57	3.6	30	
737	Fuzzy Dynamic Parameter Adaptation in the Harmony Search Algorithm for the Optimization of the Ball and Beam Controller. <i>Advances in Operations Research</i> , <b>2018</b> , 2018, 1-16	1.3	29	
736	Ant colony test center for planning autonomous mobile robot navigation. <i>Computer Applications in Engineering Education</i> , <b>2013</b> , 21, 214-229	1.6	29	
735	Interval Type-2 TSK Fuzzy Logic Systems Using Hybrid Learning Algorithm		29	
734	Shadowed Type-2 Fuzzy Systems for Dynamic Parameter Adaptation in Harmony Search and Differential Evolution Algorithms. <i>Algorithms</i> , <b>2019</b> , 12, 17	1.8	28	
733	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> , <b>2013</b> , 10, 51	1.4	26	
732	Grey wolf optimizer with dynamic adaptation of parameters using fuzzy logic 2016,		26	
731	Fuzzy rule-based models with interactive rules and their granular generalization. <i>Fuzzy Sets and Systems</i> , <b>2017</b> , 307, 1-28	3.7	25	
730	Optimization of Fuzzy Controller Using Galactic Swarm Optimization with Type-2 Fuzzy Dynamic Parameter Adjustment. <i>Axioms</i> , <b>2019</b> , 8, 26	1.6	25	
729	A multi-objective optimization of type-2 fuzzy control speed in FPGAs. <i>Applied Soft Computing Journal</i> , <b>2014</b> , 24, 1164-1174	7.5	25	
728	Generation of walking periodic motions for a biped robot via genetic algorithms. <i>Applied Soft Computing Journal</i> , <b>2011</b> , 11, 5306-5314	7.5	25	
727	Synchronization of fractional time-delayed financial system using a novel type-2 fuzzy active control method. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 136, 109768	9.3	25	
726	3 Type-2 Fuzzy Logic. Studies in Fuzziness and Soft Computing, 2007, 29-43	0.7	24	
725	Face recognition using modular neural networks and the fuzzy Sugeno integral for response integration. <i>International Journal of Intelligent Systems</i> , <b>2005</b> , 20, 275-291	8.4	24	
724	A Novel Method for a COVID-19 Classification of Countries Based on an Intelligent Fuzzy Fractal Approach. <i>Healthcare (Switzerland)</i> , <b>2021</b> , 9,	3.4	24	
723	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> , <b>2015</b> , 19, 661-678	3.5	23	
722	A new optimization meta-heuristic algorithm based on self-defense mechanism of the plants with three reproduction operators. <i>Soft Computing</i> , <b>2018</b> , 22, 4907-4920	3.5	23	
721	Fuzzy dynamic parameters adaptation in the Cuckoo Search Algorithm using fuzzy logic <b>2015</b> ,		23	

720	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> , <b>2009</b> , 24, 1134-1173	8.4	23
719	A new approach for plant monitoring using type-2 fuzzy logic and fractal theory. <i>International Journal of General Systems</i> , <b>2004</b> , 33, 305-319	2.1	23
718	Design of a Fuzzy System for the Longitudinal Control of an F-14 Airplane. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 213-224	0.8	22
717	A new method for adaptive model-based control of non-linear dynamic plants using a neuro-fuzzy-fractal approach. <i>Soft Computing</i> , <b>2001</b> , 5, 171-177	3.5	22
716	Differential Evolution with Dynamic Adaptation of Parameters for the Optimization of Fuzzy Controllers. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 275-288	0.8	22
715	Simulation and forecasting complex financial time series using neural networks and fuzzy logic		21
714	Intelligent control of dynamic systems using type-2 fuzzy logic and stability issues. <i>International Mathematical Forum</i> ,1371-1382	4.6	21
713	A novel parameter estimation in dynamic model via fuzzy swarm intelligence and chaos theory for faults in wastewater treatment plant. <i>Soft Computing</i> , <b>2020</b> , 24, 111-129	3.5	21
712	Fuzzy Logic in Dynamic Parameter Adaptation of Harmony Search Optimization for Benchmark Functions and Fuzzy Controllers. <i>International Journal of Fuzzy Systems</i> , <b>2020</b> , 22, 1198-1211	3.6	20
711	The evolutionary learning rule for system identification. <i>Applied Soft Computing Journal</i> , <b>2003</b> , 3, 343-	3 <b>5</b> <del>2</del> .5	20
710	A New Biometric Recognition Technique Based on Hand Geometry and Voice Using Neural Networks and Fuzzy Logic. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 171-186	0.8	20
709	A Novel Fractional-Order Multiple-Model Type-3 Fuzzy Control for Nonlinear Systems with Unmodeled Dynamics. <i>International Journal of Fuzzy Systems</i> , <b>2021</b> , 23, 1633	3.6	20
708	Optimization of granulation for fuzzy controllers of autonomous mobile robots using the Firefly Algorithm. <i>Granular Computing</i> , <b>2019</b> , 4, 185-195	5.4	19
707	Fuzzy control of parameters to dynamically adapt the PSO and GA Algorithms 2010,		19
706	A new fuzzy-fractal-genetic method for automated mathematical modelling and simulation of robotic dynamic systems		19
705	DEVELOPING A NEW METHOD FOR THE IDENTIFICATION OF MICROORGANISMS FOR THE FOOD INDUSTRY USING THE FRACTAL DIMENSION. <i>Fractals</i> , <b>1994</b> , 02, 457-460	3.2	19
704	An Interval Type-2 Fuzzy Neural Network for Chaotic Time Series Prediction with Cross-Validation and Akaike Test. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 269-285	0.8	19
703	A New Hybridization Approach between the Fireworks Algorithm and Grey Wolf Optimizer Algorithm. <i>Journal of Optimization</i> , <b>2018</b> , 2018, 1-18	0.5	18

702	Genetic Algorithm Optimization for Type-2 Non-singleton Fuzzy Logic Controllers. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 3-18	0.8	18	
701	Genetic optimization of ensemble neural networks for complex time series prediction 2011,		18	
700	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> , <b>2007</b> , 604-612	0.9	18	
699	Evolutionary computing for optimizing type-2 fuzzy systems in intelligent control of non-linear dynamic plants		18	
698	Statistical Analysis of Type-1 and Interval Type-2 Fuzzy Logic in dynamic parameter adaptation of the BCO		18	
697	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> , <b>2008</b> , 89-114	0.8	18	
696	Bio-inspired Optimization Methods on Graphic Processing Unit for Minimization of Complex Mathematical Functions. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 313-322	0.8	18	
695	Cuckoo search algorithm for the optimization of type-2 fuzzy image edge detection systems <b>2015</b> ,		17	
694	Modification of the Bat Algorithm using fuzzy logic for dynamical parameter adaptation 2015,		17	
693	Finishing mill strip gage setup and control by interval type-1 non-singleton type-2 fuzzy logic systems. <i>Applied Soft Computing Journal</i> , <b>2014</b> , 24, 900-911	7.5	17	
692	A Method to Solve the Traveling Salesman Problem Using Ant Colony Optimization Variants with Ant Set Partitioning. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 237-246	0.8	17	
691	Comparison of fuzzy controllers for the water tank with Type-1 and Type-2 fuzzy logic <b>2013</b> ,		17	
690	Universal Approximation of a Class of Interval Type-2 Fuzzy Neural Networks in Nonlinear Identification. <i>Advances in Fuzzy Systems</i> , <b>2013</b> , 2013, 1-16	1.7	17	
689	Intelligent Control of Nonlinear Dynamic Plants Using a Hierarchical Modular Approach and Type-2 Fuzzy Logic. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 1-12	0.9	17	
688	Evolutionary Computing for Topology Optimization of Type-2 Fuzzy Controllers <b>2007</b> , 163-178		17	
687	Design of Fuzzy Control Systems with Different PSO Variants. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 81-88	0.8	17	
686	Type-2 intuitionistic fuzzy matrix games based on a new distance measure: Application to biogas-plant implementation problem. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 106, 107357	7.5	17	
685	A new approach to control of multivariable systems through a hierarchical aggregation of fuzzy controllers. <i>Granular Computing</i> , <b>2019</b> , 4, 1-13	5.4	17	

684	Fuzzy Dynamic Adaptation of Gap Generation and Mutation in Genetic Optimization of Type 2 Fuzzy Controllers. <i>Advances in Operations Research</i> , <b>2018</b> , 2018, 1-13	1.3	17
683	Modification of the Bat Algorithm Using Type-2 Fuzzy Logic for Dynamical Parameter Adaptation. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 343-355	0.8	16
682	Visual-Servoing Based Global Path Planning Using Interval Type-2 Fuzzy Logic Control. <i>Axioms</i> , <b>2019</b> , 8, 58	1.6	16
681	Particle swarm optimization with dynamic parameter adaptation using interval type-2 fuzzy logic for benchmark mathematical functions <b>2013</b> ,		16
68o	Recent Advances in Interval Type-2 Fuzzy Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2012</b> ,	0.4	16
679	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> , <b>2007</b> ,		16
678	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> , <b>2018</b> , 12, 44-49	1	16
677	Multi-Metaheuristic Competitive Model for Optimization of Fuzzy Controllers. <i>Algorithms</i> , <b>2019</b> , 12, 90	1.8	15
676	Evolutionary Optimization of the Fuzzy Integrator in a Navigation System for a Mobile Robot. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 21-31	0.8	15
675	Parallel Particle Swarm Optimization with Parameters Adaptation Using Fuzzy Logic. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 374-385	0.9	15
674	Type-2 Fuzzy Logic Controllers Optimization Using Genetic Algoritms and Particle Swarm Optimization <b>2010</b> ,		15
673	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> , <b>2009</b> , 309-325	0.8	15
672	Hybrid Genetic-Fuzzy Optimization of a Type-2 Fuzzy Logic Controller <b>2008</b> ,		15
671	Adaptive noise cancellation using type-2 fuzzy logic and neural networks		15
670	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> , <b>2009</b> , 247-262	0.8	15
669	Intuitionistic fuzzy control of twin rotor multiple input multiple output systems. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2020</b> , 38, 821-833	1.6	15
668	PSO with Dynamic Adaptation of Parameters for Optimization in Neural Networks with Interval Type-2 Fuzzy Numbers Weights. <i>Axioms</i> , <b>2019</b> , 8, 14	1.6	15
667	Intuitionistic Fuzzy Sliding Controller for Uncertain Hyperchaotic Synchronization. <i>International Journal of Fuzzy Systems</i> , <b>2020</b> , 22, 1430-1443	3.6	14

# (2007-2016)

666	Method for Higher Order polynomial Sugeno Fuzzy Inference Systems. <i>Information Sciences</i> , <b>2016</b> , 351, 76-89	7.7	14	
665	Interval type-2 fuzzy clustering for membership function generation 2013,		14	
664	Type-2 Fuzzy Logic Systems. SpringerBriefs in Applied Sciences and Technology, 2012, 7-12	0.4	14	
663	Intelligent control of aircraft dynamic systems with a new hybrid neurofluzzyfractal approach. <i>Information Sciences</i> , <b>2002</b> , 142, 161-175	7:7	14	
662	Automated mathematical modelling for financial time series prediction using fuzzy logic, dynamical systems and fractal theory		14	
661	Evolutionary Computing for Topology Optimization of Type-2 Fuzzy Systems <b>2007</b> , 63-75		14	
660	Bio-Inspired Algorithms and Its Applications for Optimization in Fuzzy Clustering. <i>Algorithms</i> , <b>2021</b> , 14, 122	1.8	14	
659	Ant Colony Optimization with Parameter Adaptation Using Fuzzy Logic for TSP Problems. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 593-603	0.8	13	
658	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> , <b>2015</b> , 183-190	0.4	13	
657	Introduction to an optimization algorithm based on the chemical reactions. <i>Information Sciences</i> , <b>2015</b> , 291, 85-95	7.7	13	
656	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> , <b>2020</b> , 22, 1880-1891	3.6	13	
655	Edge Detection Method Based on General Type-2 Fuzzy Logic Applied to Color Images. <i>Information</i> (Switzerland), <b>2017</b> , 8, 104	2.6	13	
654	Fuzzy Index to Evaluate Edge Detection in Digital Images. <i>PLoS ONE</i> , <b>2015</b> , 10, e0131161	3.7	13	
653	Genetic Design of Optimal Type-1 and Type-2 Fuzzy Systems for Longitudinal Control of an Airplane. <i>Intelligent Automation and Soft Computing</i> , <b>2014</b> , 20, 213-227	2.6	13	
652	Particle Swarm Optimization with Dynamic Parameter Adaptation Using Fuzzy Logic for Benchmark Mathematical Functions. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 247-258	0.8	13	
651	Optimization of type-2 fuzzy logic controllers for mobile robots using evolutionary methods <b>2009</b> ,		13	
650	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> , <b>2010</b> , 2, 77	0.1	13	
649	Hybrid Learning Algorithm for Interval Type-2 Fuzzy Neural Networks <b>2007</b> ,		13	

648	Intelligent control of a stepping motor drive using a hybrid neuro-fuzzy approach. <i>Soft Computing</i> , <b>2004</b> , 8, 546-555	3.5	13
647	Simulation and forecasting complex economic time series using neural networks and fuzzy logic		13
646	A Study of Parameters of the Grey Wolf Optimizer Algorithm for Dynamic Adaptation with Fuzzy Logic. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 371-390	0.8	13
645	Differential Evolution Using Fuzzy Logic and a Comparative Study with Other Metaheuristics. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 257-268	0.8	12
644	Methodology for the Optimization of a Fuzzy Controller Using a Bio-inspired Algorithm. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 131-137	0.4	12
643	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> , <b>2018</b> , 569-579	0.3	12
642	A new fuzzy learning vector quantization method for classification problems based on a granular approach. <i>Granular Computing</i> , <b>2019</b> , 4, 197-209	5.4	12
641	Computational intelligence software for interval type-2 fuzzy logic. <i>Computer Applications in Engineering Education</i> , <b>2013</b> , 21, 737-747	1.6	12
640	A method based on Interactive Evolutionary Computation and fuzzy logic for increasing the effectiveness of advertising campaigns. <i>Information Sciences</i> , <b>2017</b> , 414, 175-186	7.7	12
639	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> , <b>2013</b> , 3-20	0.8	12
638	Fuzzy Logic Controllers Optimization Using Genetic Algorithms and Particle Swarm Optimization. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 475-486	0.9	12
637	Bio-inspired optimization of fuzzy logic controllers for autonomous mobile robots <b>2012</b> ,		12
636	Optimization of type-2 fuzzy reactive controllers for an autonomous mobile robot <b>2012</b> ,		12
635	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> , <b>2008</b> , 1, 114	0.4	12
634	A New Evolutionary Method with a Hybrid Approach Combining Particle Swarm Optimization and Genetic Algorithms using Fuzzy Logic for Decision Making <b>2008</b> ,		12
633	Reactive control of a mobile robot in a distributed environment using fuzzy logic 2008,		12
632	Hybrid Control for an Autonomous Wheeled Mobile Robot Under Perturbed Torques. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 594-603	0.9	12
631	A NEW METHOD FOR ADAPTIVE CONTROL OF NON-LINEAR PLANTS USING TYPE-2 FUZZY LOGIC AND NEURAL NETWORKS <b>2002</b> ,		12

630	Automated mathematical modelling, simulation and behavior identification of robotic dynamic systems using a new fuzzy-fractal-genetic approach. <i>Robotics and Autonomous Systems</i> , <b>1999</b> , 28, 19-30	3.5	12
629	Cuckoo search and firefly algorithms in terms of generalized net theory. Soft Computing, 2020, 24, 4877	- <u>4</u> .898	12
628	Towards asymmetric uncertainty modeling in designing General Type-2 Fuzzy classifiers for medical diagnosis. <i>Expert Systems With Applications</i> , <b>2021</b> , 183, 115370	7.8	12
627	Unsupervised Deep Learning based Variational Autoencoder Model for COVID-19 Diagnosis and Classification. <i>Pattern Recognition Letters</i> , <b>2021</b> , 151, 267-274	4.7	12
626	Bat algorithm with parameter adaptation using Interval Type-2 fuzzy logic for benchmark mathematical functions <b>2016</b> ,		11
625	Conjunction and disjunction operations for digital fuzzy hardware. <i>Applied Soft Computing Journal</i> , <b>2013</b> , 13, 3248-3258	7.5	11
624	Reactive and tracking control of a mobile robot in a distributed environment using fuzzy logic <b>2010</b> ,		11
623	Design and Simulation of the Type-2 Fuzzification Stage: Using Active Membership Functions. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 273-293	0.8	11
622	Simple tuned fuzzy controller embedded into an FPGA <b>2008</b> ,		11
621	Optimization with Genetic Algorithms of Interval Type-2 Fuzzy Logic controllers for an autonomous wheeled mobile robot: A comparison under different kinds of perturbations <b>2008</b> ,		11
620	Optimization of Response Integration with Fuzzy Logic in Ensemble Neural Networks Using Genetic Algorithms. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 129-150	0.8	11
619	Genetic optimization of a Type-2 fuzzy controller for output regulation of a servomechanism with backlash <b>2008</b> ,		11
618	Optimal Path Planning for Autonomous Mobile Robot Navigation Using Ant Colony Optimization and a Fuzzy Cost Function Evaluation <b>2007</b> , 790-798		11
617	MODELLING AND SIMULATION OF THE DEFUZZIFICATION STAGE OF A TYPE-2 FUZZY CONTROLLER USING VHDL CODE. <i>Control and Intelligent Systems</i> , <b>2011</b> , 39,		11
616	A Method for Response Integration in Modular Neural Networks with Type-2 Fuzzy Logic for Biometric Systems <b>2007</b> , 5-15		11
615	Comparison of Fuzzy Edge Detectors Based on the Image Recognition Rate as Performance Index Calculated with Neural Networks. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 389-399	0.8	11
614	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> , <b>2013</b> , 97-104	0.8	11
613	A New Method for Parameterization of General Type-2 Fuzzy Sets. <i>Fuzzy Information and Engineering</i> , <b>2018</b> , 10, 31-57	0.5	11

612	A Review of Dynamic Parameter Adaptation Methods for the Firefly Algorithm. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 285-295	0.8	10
611	Cuckoo Search via L <sup>Q</sup> y Flights and a Comparison with Genetic Algorithms. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 91-103	0.8	10
610	Optimization of the Type-1 and Type-2 fuzzy controller design for the water tank using the Bee Colony Optimization <b>2014</b> ,		10
609	Modular granular neural networks optimization with Multi-Objective Hierarchical Genetic Algorithm for human recognition based on iris biometric <b>2013</b> ,		10
608	Neural Network with Type-2 Fuzzy Weights Adjustment for Pattern Recognition of the Human Iris Biometrics. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 259-270	0.9	10
607	Nature optimization applied to design a type-2 fuzzy controller for an autonomous mobile robot <b>2012</b> ,		10
606	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> , <b>2013</b> , 33-49	0.8	10
605	A hybrid learning algorithm for Interval Type-2 Fuzzy Neural Networks in time series prediction for the case of air pollution <b>2008</b> ,		10
604	Mediative fuzzy logic: a new approach for contradictory knowledge management. <i>Soft Computing</i> , <b>2007</b> , 12, 251-256	3.5	10
603	A new method for adaptive model-based control of non-linear plants using type-2 fuzzy logic and neural networks		10
602	Dynamic parameter adaptation in Ant Colony Optimization using a fuzzy system for TSP problems		10
601	General Type-2 Fuzzy Edge Detection in the Preprocessing of a Face Recognition System. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 3-18	0.8	10
600	Design of Modular Neural Networks with Fuzzy Integration Applied to Time Series Prediction <b>2007</b> , 265	-273	10
599	Fuzzy Logic for Parameter Tuning in Evolutionary Computation and Bio-inspired Methods. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 465-474	0.9	10
598	Fuzzy Galactic Swarm Optimization with Dynamic Adjustment of Parameters Based on Fuzzy Logic. <i>SN Computer Science</i> , <b>2020</b> , 1, 1	2	10
597	Choquet Integral and Interval Type-2 Fuzzy Choquet Integral for Edge Detection. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 79-97	0.8	9
596	Fuzzy Dynamic Adaptation of Parameters in the Water Cycle Algorithm. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 297-311	0.8	9
595	An Improved Harmony Search Algorithm Using Fuzzy Logic for the Optimization of Mathematical Functions. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 605-615	0.8	9

# (2009-2020)

594	Learning rules for Sugeno ANFIS with parametric conjunction operations. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 89, 106095	7.5	9
593	Comparison of T-Norms and S-Norms for Interval Type-2 Fuzzy Numbers in Weight Adjustment for Neural Networks. <i>Information (Switzerland)</i> , <b>2017</b> , 8, 114	2.6	9
592	Fuzzy Logic for Inculcating Significance of Semantic Relations in Word Sense Disambiguation Using a WordNet Graph. <i>International Journal of Fuzzy Systems</i> , <b>2018</b> , 20, 444-459	3.6	9
591	Optimization of Membership Function Parameters for Fuzzy Controllers of an Autonomous Mobile Robot Using the Firefly Algorithm. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 199-206	0.8	9
590	Hierarchical aggregation of multiple fuzzy controllers for global complex control problems. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 38, 851-859	7.5	9
589	A new approach for time series prediction using ensembles of ANFIS models with interval type-2 and type-1 fuzzy integrators <b>2013</b> ,		9
588	Optimization of Benchmark Mathematical Functions Using the Firefly Algorithm with Dynamic Parameters. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 81-89	0.8	9
587	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 <b>2009</b> ,		9
586	Comparison between Ant Colony and Genetic Algorithms for Fuzzy System Optimization. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 71-86	0.8	9
585	2008,		9
585 584	2008,  Handling Uncertainty in Controllers Using Type-2 Fuzzy Logic		9
		0.7	
584	Handling Uncertainty in Controllers Using Type-2 Fuzzy Logic	0.7	9
584 583	Handling Uncertainty in Controllers Using Type-2 Fuzzy Logic  Modular Neural Networks. <i>Studies in Fuzziness and Soft Computing</i> , <b>2005</b> , 109-129	o.7 7·7	9
584 583 582	Handling Uncertainty in Controllers Using Type-2 Fuzzy Logic  Modular Neural Networks. <i>Studies in Fuzziness and Soft Computing</i> , <b>2005</b> , 109-129  Design of Stable Type-2 Fuzzy Logic Controllers based on a Fuzzy Lyapunov Approach <b>2006</b> ,  Application of a breeder genetic algorithm for finite impulse filter optimization. <i>Information</i>	Í	9 9
584 583 582 581	Handling Uncertainty in Controllers Using Type-2 Fuzzy Logic  Modular Neural Networks. <i>Studies in Fuzziness and Soft Computing</i> , <b>2005</b> , 109-129  Design of Stable Type-2 Fuzzy Logic Controllers based on a Fuzzy Lyapunov Approach <b>2006</b> ,  Application of a breeder genetic algorithm for finite impulse filter optimization. <i>Information Sciences</i> , <b>2004</b> , 161, 139-158  Designing Type-2 Fuzzy Systems Using the Interval Type-2 Fuzzy C-Means Algorithm. <i>Studies in</i>	7-7	9 9 9
584 583 582 581	Handling Uncertainty in Controllers Using Type-2 Fuzzy Logic  Modular Neural Networks. Studies in Fuzziness and Soft Computing, 2005, 109-129  Design of Stable Type-2 Fuzzy Logic Controllers based on a Fuzzy Lyapunov Approach 2006,  Application of a breeder genetic algorithm for finite impulse filter optimization. Information Sciences, 2004, 161, 139-158  Designing Type-2 Fuzzy Systems Using the Interval Type-2 Fuzzy C-Means Algorithm. Studies in Computational Intelligence, 2014, 37-50  Design and Simulation of the Fuzzification Stage through the Xilinx System Generator. Studies in	7:7 o.8	9 9 9 9 9

576	Fuzzy differential evolution method with dynamic parameter adaptation using type-2 fuzzy logic <b>2016</b> ,		9
575	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> , <b>2019</b> , 4, 211-236	<del>1</del>	9
574	Imperialist Competitive Algorithm with Dynamic Parameter Adaptation Applied to the Optimization of Mathematical Functions. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 329-341	8	8
573	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> , <b>2015</b> , 59-70	8	8
572	A New Bat Algorithm with Fuzzy Logic for Dynamical Parameter Adaptation and Its Applicability to Fuzzy Control Design. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 65-79	8	8
571	A Harmony Search Algorithm Comparison with Genetic Algorithms. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 105-123	8	8
570	A survey of Type-2 fuzzy logic controller design using nature inspired optimization. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2020</b> , 39, 6169-6179	6	8
569	Galactic Swarm Optimization with Adaptation of Parameters Using Fuzzy Logic for the Optimization of Mathematical Functions. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 131-140	8	8
568	Design and Implementation of a Fuzzy Path Optimization System for Omnidirectional Autonomous Mobile Robot Control in Real-Time. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 241-252	8	8
567	Handling of Synergy into an Algorithm for Project Portfolio Selection. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 417-430	8	8
566	Optimization of the Interval Type-2 Fuzzy C-Means using Particle Swarm Optimization 2013,		8
565	Fuzzy Classification System Design Using PSO with Dynamic Parameter Adaptation Through Fuzzy Logic. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 29-47	8	8
564	Bat Algorithm Comparison with Genetic Algorithm Using Benchmark Functions. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 225-237	8	8
563	Optimization of type-2 fuzzy weight for neural network using genetic algorithm and particle swarm optimization <b>2013</b> ,		8
562	Optimal Design of the Fuzzy Navigation System for a Mobile Robot Using Evolutionary Algorithms.  International Journal of Advanced Robotic Systems, 2013, 10, 139	4	8
561	Optimal Design of Type-2 Fuzzy Membership Functions Using Genetic Algorithms in a Partitioned Search Space <b>2010</b> ,		8
560	ACO-Tuning of a Fuzzy Controller for the Ball and Beam Problem. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 58-69	9	8
559	A new fuzzy-genetic approach for the simulation and forecasting of international trade non-linear dynamic	CS	8

#### (2007-2008)

558	Fingerprint recognition using the fuzzy Sugeno integral for response integration in modular neural networks. <i>International Journal of General Systems</i> , <b>2008</b> , 37, 499-515	2.1	8	
557	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> , <b>2015</b> , 617-637	0.8	8	
556	A New Optimization Method Based on a Paradigm Inspired by Nature. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 277-283	0.8	8	
555	Optimization of Type-2 Fuzzy Logic Controllers Using PSO Applied to Linear Plants. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 181-193	0.8	8	
554	High-Speed Interval Type-2 Fuzzy Systems for Dynamic Parameter Adaptation in Harmony Search for Optimal Design of Fuzzy Controllers. <i>Mathematics</i> , <b>2021</b> , 9, 758	2.3	8	
553	A variant to the dynamic adaptation of parameters in galactic swarm optimization using a fuzzy logic augmentation <b>2018</b> ,		8	
552	Optimization Mathematical Functions for Multiple Variables Using the Algorithm of Self-defense of the Plants. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 631-640	0.8	7	
551	An Adaptive Fuzzy Control Based on Harmony Search and Its Application to Optimization. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 269-283	0.8	7	
550	Comparative Analysis of Designing Differents Types of Membership Functions Using Bee Colony Optimization in the Stabilization of Fuzzy Controllers. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 551-5	57t <sup>8</sup>	7	
549	Differential Evolution with Fuzzy Logic for Dynamic Adaptation of Parameters in Mathematical Function Optimization. <i>Studies in Fuzziness and Soft Computing</i> , <b>2016</b> , 361-374	0.7	7	
548	Implementing flower multi-objective algorithm for selection of university academic credits 2014,		7	
547	A fuzzy differential evolution method with dynamic adaptation of parameters for the optimization of fuzzy controllers <b>2014</b> ,		7	
546	Optimization of type-2 fuzzy integration in ensemble neural networks for predicting the US Dolar/MX pesos time series <b>2013</b> ,		7	
545	Chemical Optimization Algorithm for Fuzzy Controller Design. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2014</b> ,	0.4	7	
544	A T-S Fuzzy Logic Controller for biped robot walking based on adaptive network fuzzy inference system <b>2010</b> ,		7	
543	Methodology to Optimize Manufacturing Time for a CNC Using a High Performance Implementation of ACO. <i>International Journal of Advanced Robotic Systems</i> , <b>2012</b> , 9, 121	1.4	7	
542	Intelligence techniques are needed to further enhance the advantage of groups with diversity in problem solving <b>2009</b> ,		7	
541	Evolutionary optimization of interval type-2 membership functions using the Human Evolutionary Model. <i>IEEE International Conference on Fuzzy Systems</i> , <b>2007</b> ,		7	

540	2007,		7
539	A hybrid fuzzy-fractal approach for time series analysis and plant monitoring. <i>International Journal of Intelligent Systems</i> , <b>2002</b> , 17, 751-765	8.4	7
538	A new hybrid approach for plant monitoring and diagnostics using type-2 fuzzy logic and fractal theory		7
537	An adaptive model-based neuro-fuzzy-fractal controller for biochemical reactors in the food industry		7
536	Towards a Control Strategy Based on Type-2 Fuzzy Logic for an Autonomous Mobile Robot. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 301-314	0.8	7
535	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> , <b>2020</b> , 47-56	0.8	7
534	A Hybrid Learning Algorithm for Interval Type-2 Fuzzy Neural Networks: The Case of Time Series Prediction. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 363-386	0.8	7
533	Interval Type-2 Mamdani Fuzzy Systems for Intelligent Control. <i>Studies in Fuzziness and Soft Computing</i> , <b>2012</b> , 163-177	0.7	7
532	Comparative Study of Type-1 and Type-2 Fuzzy Systems for the Three-Tank Water Control Problem. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 362-373	0.9	7
531	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
531 530		3.6	7
	Shark Smell Metaheuristic Algorithm. International Journal of Fuzzy Systems,1	3.6	
530	Shark Smell Metaheuristic Algorithm. <i>International Journal of Fuzzy Systems</i> ,1  2016,  Comments on Fuzzy Sets, Interval Type-2 Fuzzy Sets, General Type-2 Fuzzy Sets and Intuitionistic		
530 529	Shark Smell Metaheuristic Algorithm. <i>International Journal of Fuzzy Systems</i> ,1  2016,  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  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</i>	0.7	7
530 529 528	2016,  Comments on Fuzzy Sets, Interval Type-2 Fuzzy Sets, General Type-2 Fuzzy Sets and Intuitionistic Fuzzy Sets. Studies in Fuzziness and Soft Computing, 2019, 35-43  High-Speed Interval Type-2 Fuzzy System for Dynamic Crossover Parameter Adaptation in Differential Evolution and Its Application to Controller Optimization. International Journal of Fuzzy Systems, 2020, 22, 414-427  Optimization using the firefly algorithm of ensemble neural networks with type-2 fuzzy integration	0.7	7 7 7
<ul><li>530</li><li>529</li><li>528</li><li>527</li></ul>	2016,  Comments on Fuzzy Sets, Interval Type-2 Fuzzy Sets, General Type-2 Fuzzy Sets and Intuitionistic Fuzzy Sets. Studies in Fuzziness and Soft Computing, 2019, 35-43  High-Speed Interval Type-2 Fuzzy System for Dynamic Crossover Parameter Adaptation in Differential Evolution and Its Application to Controller Optimization. International Journal of Fuzzy Systems, 2020, 22, 414-427  Optimization using the firefly algorithm of ensemble neural networks with type-2 fuzzy integration for COVID-19 time series prediction. Soft Computing, 2021, 1-38  Particle Swarm Optimization of the Fuzzy Integrators for Time Series Prediction Using Ensemble of	<ul><li>0.7</li><li>3.6</li><li>3.5</li></ul>	7 7 7
<ul><li>530</li><li>529</li><li>528</li><li>527</li><li>526</li></ul>	2016,  Comments on Fuzzy Sets, Interval Type-2 Fuzzy Sets, General Type-2 Fuzzy Sets and Intuitionistic Fuzzy Sets. Studies in Fuzziness and Soft Computing, 2019, 35-43  High-Speed Interval Type-2 Fuzzy System for Dynamic Crossover Parameter Adaptation in Differential Evolution and Its Application to Controller Optimization. International Journal of Fuzzy Systems, 2020, 22, 414-427  Optimization using the firefly algorithm of ensemble neural networks with type-2 fuzzy integration for COVID-19 time series prediction. Soft Computing, 2021, 1-38  Particle Swarm Optimization of the Fuzzy Integrators for Time Series Prediction Using Ensemble of IT2FNN Architectures. Studies in Computational Intelligence, 2017, 141-158  Cuckoo Search Algorithm via L&y Flight with Dynamic Adaptation of Parameter Using Fuzzy Logic	o.7 3.6 3.5 o.8	7 7 7 7

522	A new Interval Type-2 Fuzzy Possibilistic C-Means clustering algorithm <b>2015</b> ,		6
521	Multimodal human eye blink recognition method using feature level fusion for exigency detection. <i>Soft Computing</i> , <b>2020</b> , 24, 16829-16845	3.5	6
520	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 <b>2016</b> ,		6
519	A proposal for an intuitionistic fuzzy inference system <b>2016</b> ,		6
518	Interval type-2 fuzzy logic for dynamic parameter adaptation in the Harmony search algorithm <b>2016</b> ,		6
517	Optimization of fuzzy controllers for autonomous mobile robots using the grey wolf optimizer <b>2019</b> ,		6
516	Optimization of interval type-2 fuzzy integrators in ensembles of ANFIS models for prediction of the Mackey-Glass time series <b>2014</b> ,		6
515	Using MatLab's fuzzy logic toolbox to create an application for RAMSET in software engineering courses. <i>Computer Applications in Engineering Education</i> , <b>2013</b> , 21, 596-605	1.6	6
514	Genetic Optimization of Membership Functions in Modular Fuzzy Controllers for Complex Problems. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 51-62	0.8	6
513	Bio-Inspired Optimization Algorithm Based on the Self-defense Mechanism in Plants. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 227-237	0.9	6
512	Face Recognition with Choquet Integral in Modular Neural Networks. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 437-449	0.8	6
511	Genetic Design of an Interval Type-2 Fuzzy Controller for Velocity Regulation in a DC Motor. <i>International Journal of Advanced Robotic Systems</i> , <b>2012</b> , 9, 204	1.4	6
510	Introduction to Type-2 Fuzzy Logic Control. Studies in Fuzziness and Soft Computing, 2012, 3-5	0.7	6
509	Face, Fingerprint and Voice Recognition with Modular Neural Networks and Fuzzy Integration. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 69-79	0.8	6
508	5 Design of Intelligent Systems with Interval Type-2 Fuzzy Logic <b>2007</b> , 53-76		6
507	Modeling and Simulation of the Defuzzification Stage Using Xilinx System Generator and Simulink. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 333-343	0.8	6
506	2007,		6
505	A new method for fuzzy inference in intuitionistic fuzzy systems		6

504	Black box evolutionary mathematical modeling applied to linear systems. <i>International Journal of Intelligent Systems</i> , <b>2005</b> , 20, 293-311	8.4	6
503	Optimization of Interval Type-2 Fuzzy Logic Controllers for a Perturbed Autonomous Wheeled Mobile Robot Using Genetic Algorithms. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 3-18	0.8	6
502	Type-2 Fuzzy Logic in Control of Nonsmooth Systems. Studies in Fuzziness and Soft Computing, 2019,	0.7	6
501	Fuzzy System Optimization Using a Hierarchical Genetic Algorithm Applied to Pattern Recognition. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 713-720	0.4	6
500	Methodology to Test and Validate a VHDL Inference Engine through the Xilinx System Generator. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 325-331	0.8	6
499	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> , <b>2009</b> , 111-129	0.8	6
498	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> , <b>2010</b> , 171-188	0.8	6
497	Designing Systematic Stable Fuzzy Logic Controllers by Fuzzy Lyapunov Synthesis. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 63-79	0.8	6
496	Hierarchical Genetic Optimization of the Fuzzy Integrator for Navigation of a Mobile Robot. <i>Studies in Fuzziness and Soft Computing</i> , <b>2013</b> , 77-96	0.7	6
495	Evolutionary Optimization of Type-2 Fuzzy Logic Systems Applied to Linear Plants. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 17-31	0.8	6
494	A new randomness approach based on sine waves to improve performance in metaheuristic algorithms. <i>Soft Computing</i> , <b>2020</b> , 24, 11989-12011	3.5	6
493	Optimal Design of Fuzzy Systems Using Differential Evolution and Harmony Search Algorithms with Dynamic Parameter Adaptation. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6146	2.6	6
492	Type-2 fuzzy control for line following using line detection images. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2020</b> , 39, 6089-6097	1.6	6
49 <sup>1</sup>	A fuzzy logic approach for dynamic adaptation of parameters in galactic swarm optimization <b>2016</b> ,		6
490	Scientometric inspection of research progression in hesitant fuzzy sets. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2020</b> , 38, 619-626	1.6	6
489	Joint set-up of parameters in genetic algorithms and the artificial bee colony algorithm: an approach for cultivation process modelling. <i>Soft Computing</i> , <b>2021</b> , 25, 2015-2038	3.5	6
488	An Overview of Granular Computing Using Fuzzy Logic Systems. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 19-38	0.8	5
487	Optimization of Reactive Control for Mobile Robots Based on the CRA Using Type-2 Fuzzy Logic. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 505-515	0.8	5

486	Edge detection method based on Interval type-2 fuzzy systems for color images 2015,		5
485	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> , <b>2020</b> , 39, 3545-3559	1.6	5
484	Differential Evolution Algorithm with Interval Type-2 Fuzzy Logic for the Optimization of the Mutation Parameter. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 55-65	0.8	5
483	Ant colony optimization for the design of Modular Neural Networks in pattern recognition 2016,		5
482	Interval Type-2 Fuzzy Possibilistic C-Means Clustering Algorithm. <i>Studies in Fuzziness and Soft Computing</i> , <b>2016</b> , 185-194	0.7	5
481	Towards an Adaptive Control Strategy Based on Type-2 Fuzzy Logic for Autonomous Mobile Robots <b>2019</b> ,		5
480	Generalized type-2 fuzzy logic in response integration of modular neural networks 2013,		5
479	Formation of general type-2 Gaussian membership functions based on the information granule numerical evidence <b>2013</b> ,		5
478	Fuzzy Logic for Dynamic Parameter Tuning in ACO and Its Application in Optimal Fuzzy Logic Controller Design. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 3-28	0.8	5
477	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> , <b>2015</b> , 460-471	0.9	5
476	Toolbox for bio-inspired optimization of mathematical functions. <i>Computer Applications in Engineering Education</i> , <b>2014</b> , 22, 11-22	1.6	5
475	Fuzzy granular gravitational clustering algorithm 2012,		5
474	2013,		5
473	Neural networks recognition rate as index to compare the performance of fuzzy edge detectors <b>2010</b> ,		5
472	Optimization of Membership Functions for an Incremental Fuzzy PD Control Based on Genetic Algorithms. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 195-211	0.8	5
471	A new validation index for fuzzy clustering and its comparisons with other methods <b>2011</b> ,		5
470	Fuzzy Control for Output Regulation of a Servomechanism with Backlash. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 19-28	0.8	5
469	2008,		5

468	10 Experimental Study of Intelligent Controllers Under Uncertainty Using Type-1 and Type-2 Fuzzy Logic. <i>Studies in Fuzziness and Soft Computing</i> , <b>2007</b> , 121-132	0.7	5
467	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</i> , <b>2007</b> ,		5
466	A Method for Response Integration in Modular Neural Networks using Interval Type-2 Fuzzy Logic. <i>IEEE International Conference on Fuzzy Systems</i> , <b>2007</b> ,		5
465	A new method for fuzzy estimation of the fractal dimension and its applications to time series analysis and pattern recognition		5
464	A Deep-learned Type-3 Fuzzy System and Its Application in Modeling Problems. <i>Acta Polytechnica Hungarica</i> , <b>2022</b> , 19, 151-172	2.2	5
463	INTELLIGENT ADAPTIVE MODEL-BASED CONTROL OF ROBOTIC DYNAMIC SYSTEMS WITH A NEW HYBRID NEURO-FUZZY-FRACTAL APPROACH <b>2000</b> ,		5
462	Fuzzy Parameter Adaptation in Genetic Algorithms for the Optimization of Fuzzy Integrators in Modular Neural Networks for Multimodal Biometry. <i>Computacion Y Sistemas</i> , <b>2020</b> , 24,	1.4	5
461	Fuzzy Flower Pollination Algorithm to Solve Control Problems. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 119-154	0.8	5
460	Constrained Real-Parameter Optimization Using the Firefly Algorithm and the Grey Wolf Optimizer. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 155-167	0.8	5
459	Comparison of the Optimal Design of Fuzzy Controllers for the Water Tank Using Ant Colony Optimization. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 255-273	0.8	5
458	Water Cycle Algorithm with Fuzzy Logic for Dynamic Adaptation of Parameters. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 250-260	0.9	5
457	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> , <b>2010</b> , 37-55	0.8	5
456	Fuzzy System to Control the Movement of a Wheeled Mobile Robot. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 445-463	0.8	5
455	An Efficient Chicken Search Optimization Algorithm for the Optimal Design of Fuzzy Controllers. <i>Axioms</i> , <b>2021</b> , 10, 30	1.6	5
454	Comparison between Choquet and Sugeno integrals as aggregation operators for pattern recognition <b>2016</b> ,		5
453	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> , <b>2021</b> ,	0.4	5
452	Optimization of a fuzzy controller for autonomous robot navigation using a new competitive multi-metaheuristic model. <i>Soft Computing</i> , <b>2021</b> , 25, 11653-11672	3.5	5
451	Spatial and Temporal Spread of the COVID-19 Pandemic Using Self Organizing Neural Networks and a Fuzzy Fractal Approach. <i>Sustainability</i> , <b>2021</b> , 13, 8295	3.6	5

450	Interval Type-2 Fuzzy Possibilistic C-Means Optimization Using Particle Swarm Optimization. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 63-78	0.8	4
449	2015,		4
448	An approach for non-singleton generalized Type-2 fuzzy classifiers. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2020</b> , 39, 7203-7215	1.6	4
447	Designing hybrid classifiers based on general type-2 fuzzy logic and support vector machines. <i>Soft Computing</i> , <b>2020</b> , 24, 18009-18019	3.5	4
446	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> , <b>2018</b> , 17, 24-42	3.3	4
445	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> , <b>2018</b> , 3-16	0.8	4
444	2016,		4
443	A fuzzy system for dynamic parameter adaptation in gravitational search algorithm <b>2016</b> ,		4
442	Interval Type-2 Fuzzy System Design Based on the Interval Type-2 Fuzzy C-Means Algorithm. <i>Studies in Fuzziness and Soft Computing</i> , <b>2016</b> , 133-146	0.7	4
441	Interval type-2 fuzzy clustering algorithm using the combination of the fuzzy and possibilistic C-Mean algorithms <b>2014</b> ,		4
440	A hybrid method for IT2 TSK formation based on the principle of justifiable granularity and PSO for spread optimization <b>2013</b> ,		4
439	Time series prediction using ensembles of neuro-fuzzy models with interval type-2 and type-1 fuzzy integrators <b>2013</b> ,		4
438	Iterative fireworks algorithm with fuzzy coefficients 2017,		4
437	Response integration in modular neural networks using Choquet Integral with Interval type 2 Sugeno measures <b>2015</b> ,		4
436	A New Bat Algorithm Augmentation Using Fuzzy Logic for Dynamical Parameter Adaptation. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 433-442	0.9	4
435	A fuzzy system for parameter adaptation in ant colony optimization <b>2014</b> ,		4
434	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> , <b>2014</b> , 9, 29	1.9	4
433	Design of optimal membership functions for fuzzy controllers of the water tank and inverted pendulum with PSO variants <b>2013</b> ,		4

432	Optimization of fuzzy control systems with different variants of Particle Swarm Optimization 2013,		4
431	Chaotic Time Series Prediction Using Ensembles of ANFIS. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 287-301	0.8	4
430	Interval Type-2 Fuzzy Logic for Control Applications <b>2010</b> ,		4
429	2008,		4
428	Integrated development platform for intelligent control based on type-2 fuzzy logic		4
427	Hierarchical genetic algorithms for fuzzy system optimization in intelligent control 2004,		4
426	Handling Uncertainty in Controllers Using Type-2 Fuzzy Logic. <i>Journal of Intelligent Systems</i> , <b>2005</b> , 14,	1.5	4
425	Fingerprint recognition using modular neural networks and fuzzy integrals for response integration		4
424	Optimal Fuzzy Controller Design for Autonomous Robot Path Tracking Using Population-Based Metaheuristics. <i>Symmetry</i> , <b>2022</b> , 14, 202	2.7	4
423	Optimization of Fuzzy Controllers for Autonomous Mobile Robots Using the Grey Wolf Optimizer. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 289-299	0.8	4
422	Optimization of Benchmark Mathematical Functions Using the Firefly Algorithm. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 177-189	0.8	4
421	Optimization of Fuzzy Control Systems for Mobile Robots Based on PSO. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 191-208	0.8	4
420	Evolutionary Computing for the Optimization of Mathematical Functions 2007, 463-472		4
419	Systematic Design of a Stable Type-2 Fuzzy Logic Controller <b>2008</b> , 319-331		4
418	Type-2 Fuzzy Grammar in Language Evolution. Studies in Computational Intelligence, 2013, 501-515	0.8	4
417	A new prediction approach of the COVID-19 virus pandemic behavior with a hybrid ensemble modular nonlinear autoregressive neural network. <i>Soft Computing</i> , <b>2020</b> , 1-10	3.5	4
416	Type-2 fuzzy logic dynamic parameter adaptation in a new Fuzzy Differential Evolution method <b>2016</b> ,		4
415	An Efficient High-Order Plane Aggregation in General Type-2 Fuzzy Systems Using Newton <b>(</b> lotes Rules. <i>International Journal of Fuzzy Systems</i> , <b>2021</b> , 23, 1102-1121	3.6	4

414	Differential Evolution with Shadowed and General Type-2 Fuzzy Systems for Dynamic Parameter Adaptation in Optimal Design of Fuzzy Controllers. <i>Axioms</i> , <b>2021</b> , 10, 194	1.6	4
413	Modeling assumptions, optimal control strategies and mitigation through vaccination to Zika virus. <i>Chaos, Solitons and Fractals</i> , <b>2021</b> , 150, 111137	9.3	4
412	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> , <b>2021</b> , 151, 111250	9.3	4
411	Optimization of Type-2 Fuzzy Controllers Using the Bee Colony Algorithm. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2017</b> ,	0.4	3
410	Bio-inspired Optimization of Type-2 Fuzzy Controllers in Autonomous Mobile Robot Navigation. <i>Studies in Systems, Decision and Control</i> , <b>2019</b> , 187-200	0.8	3
409	Gaze-Guided Control of an Autonomous Mobile Robot Using Type-2 Fuzzy Logic. <i>Applied System Innovation</i> , <b>2019</b> , 2, 14	2.4	3
408	Comparative Study of the Conventional Mathematical and Fuzzy Logic Controllers for Velocity Regulation. <i>Axioms</i> , <b>2019</b> , 8, 53	1.6	3
407	Study of Parameter Variations in the Cuckoo Search Algorithm and the Influence in Its Behavior. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 199-210	0.8	3
406	Method for Measurement of Uncertainty Applied to the Formation of Interval Type-2 Fuzzy Sets. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 13-25	0.8	3
405	Fuzzy control of parameters to dynamically adapt the HS algorithm for optimization 2015,		3
404	Color Image Edge Detection Method Based on Interval Type-2 Fuzzy Systems. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 3-11	0.8	3
403	A fuzzy cellular preyBredator model for pest control under sustainable bio-economic equilibrium: A formal description and simulation analysis study. <i>Applied Mathematical Modelling</i> , <b>2015</b> , 39, 1794-180	3 <sup>4.5</sup>	3
402	Comparison of Bio-Inspired Methods with Parameter Adaptation Through Interval Type-2 Fuzzy Logic. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 39-53	0.8	3
401	Impact Study of the Footprint of Uncertainty in Control Applications Based on Interval Type-2 Fuzzy Logic Controllers. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 181-197	0.8	3
400	A New Approach for Dynamic Mutation Parameter in the Differential Evolution Algorithm Using Fuzzy Logic. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 85-93	0.4	3
399	Fuzzy Harmony Search Algorithm Using an Interval Type-2 Fuzzy Logic Applied to Benchmark Mathematical Functions. <i>Studies in Computational Intelligence</i> , <b>2019</b> , 13-28	0.8	3
398	Interval Type-2 Fuzzy Logic Dynamic Mutation and Crossover Parameter Adaptation in a Fuzzy Differential Evolution Method. <i>Studies in Computational Intelligence</i> , <b>2019</b> , 81-94	0.8	3
397	Embedded Average of an Interval Type-2 Fuzzy Systems for Applications in FPGAs. <i>Intelligent Automation and Soft Computing</i> , <b>2014</b> , 20, 183-199	2.6	3

396 2014, 3 A new approach based on generalized type-2 fuzzy logic for edge detection 2013, 395 3 Nature inspired chemical optimization to design a type-2 fuzzy controller for a mobile robot 2013, 394 3 Bat algorithm to improve a Financial Trust Forest 2013, 393 A class of interval type-2 fuzzy neural networks illustrated with application to non-linear 392 3 identification 2013. Dynamic simultaneous adaptation of parameters in the grey wolf optimizer using fuzzy logic 2017, 391 Shipwrecked on Fear: Selection of Electives in School Minorities in a University Using Cuckoo Search 0.8 390 3 Algorithm. Studies in Computational Intelligence, 2014, 139-150 2012, 389 3 Modular Neural Networks Optimization with Hierarchical Genetic Algorithms with Fuzzy Response 388 0.9 3 Integration for Pattern Recognition. Lecture Notes in Computer Science, 2013, 247-258 387 Genetic optimization of interval type-2 fuzzy reactive controllers for mobile robots 2013, An Observer for the Type-1 Fuzzy Control of a Servomechanism with Backlash Using Only Motor 386 0.8 3 Measurements. Studies in Computational Intelligence, 2010, 405-421 Parameter tuning of membership functions of a fuzzy logic controller for an autonomous wheeled 385 mobile robot using ant colony optimization 2009, Comparison between multiobjective GA and PSO for parameter optimization of AT2-FLC for a real 384 3 application in FPGA 2012, A hybrid approach with fuzzy logic in a multi-agent system for controlling autonomous mobile 383 0.3 robots in known environments. International Journal of Intelligent Engineering Informatics, 2010, 1, 21 Bio-inspired Optimization of Fuzzy Logic Controllers for Robotic Autonomous Systems with PSO 382 0.5 3 and ACO. Fuzzy Information and Engineering, 2010, 2, 119-143 Simulation and forecasting of international trade dynamics using non-linear mathematical models 381 and fuzzy logic techniques Intelligent control using an Interval Type-2 Fuzzy Neural Network with a hybrid learning algorithm 380 3 2008, Implementation of a Wireless Control System with Self Timed Activation for Mobile Robots 2008, 379

378	Fuzzy-Neural control of a distributed parameter bioprocess plant 2008,		3
377	Computational intelligence software: Type-2 Fuzzy Logic and Modular Neural Networks 2008,		3
376	Hybrid Learning Algorithm for Interval Type-2 Fuzzy Neural Networks <b>2007</b> ,		3
375	Optimization of modular neural networks using hierarchical genetic algorithms applied to speech recogn	nition	3
374	A new fuzzy-fractal approach for forecasting financial and economic time series		3
373	Adaptive Model-Based Control of Non-Linear Dynamical Systems with a Neuro-Fuzzy-Genetic Approach. <i>International Journal of Smart Engineering System Design</i> , <b>2002</b> , 4, 41-47		3
372	Intelligent control of non-linear dynamic plants using type-2 fuzzy logic and neural networks		3
371	Optimization of Fuzzy Logic Controllers with Distributed Bio-Inspired Algorithms. <i>Studies in Computational Intelligence</i> , <b>2021</b> , 1-11	0.8	3
370	Optimal Design of Fuzzy Logic Systems Through a Chicken Search Optimization Algorithm Applied to a Benchmark Problem. <i>Studies in Computational Intelligence</i> , <b>2021</b> , 229-247	0.8	3
369	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
368	Efficient Stereoscopic Video Matching and Map Reconstruction for a Wheeled Mobile Robot. <i>International Journal of Advanced Robotic Systems</i> , <b>2012</b> , 9, 120	1.4	3
367	Harmony Search with Dynamic Adaptation of Parameters for the Optimization of a Benchmark Set of Functions. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 97-108	0.8	3
366	Modular granular neural network optimization using the firefly algorithm applied to time series prediction <b>2020</b> , 199-216		3
365	Parameter Adaptation in the Imperialist Competitive Algorithm Using Generalized Type-2 Fuzzy Logic. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 3-10	0.8	3
364	Harmony Search with Dynamic Adaptation of Parameters for the Optimization of a Benchmark Controller. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 157-168	0.8	3
363	Optimal Design of Interval Type-2 Fuzzy Tracking Controllers of Mobile Robots Using a Metaheuristic Algorithm. <i>Studies in Computational Intelligence</i> , <b>2021</b> , 315-341	0.8	3
362	A Novel Study of the Multi-verse Optimizer and Its Applications on Multiple Areas of Computer Science. <i>Studies in Computational Intelligence</i> , <b>2021</b> , 133-144	0.8	3
361	Differential Evolution with Dynamic Adaptation of Parameters for the Optimization of Fuzzy Controllers. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 49-63	0.8	3

360	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> , <b>2015</b> , 291-303	0.8	3
359	Optimization by Cuckoo Search of Interval Type-2 Fuzzy Logic Systems for Edge Detection. <i>Studies in Fuzziness and Soft Computing</i> , <b>2016</b> , 141-154	0.7	3
358	Bidding Strategies Based on Type-1 and Interval Type-2 Fuzzy Systems for Google AdWords Advertising Campaigns. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 99-113	0.8	3
357	A Review of Fuzzy and Mathematic Methods for Dynamic Parameter Adaptation in the Firefly Algorithm. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 311-321	0.8	3
356	Improved Method Based on Type-2 Fuzzy Logic for the Adaptive Harmony Search Algorithm. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 29-37	0.8	3
355	Design and Implementation of a Hybrid Fuzzy Controller Using VHDL. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 437-446	0.8	3
354	Intelligent Control and Planning of Autonomous Mobile Robots Using Fuzzy Logic and Multiple Objective Genetic Algorithms <b>2007</b> , 799-807		3
353	A Method for Creating Ensemble Neural Networks Using a Sampling Data Approach <b>2007</b> , 772-780		3
352	Mediative Fuzzy Logic: A New Approach for Contradictory Knowledge Management <b>2008</b> , 135-149		3
351	Fuzzy Control for Dynamical Parameter Adaptation in a Parallel Evolutionary Method Combining Particle Swarm Optimization and Genetic Algorithms. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 161-1	78 <sup>.8</sup>	3
350	Design of Interval Type-2 Fuzzy Logic Controllers. Studies in Fuzziness and Soft Computing, 2012, 23-47	0.7	3
349	Modular Neural Networks with Type-2 Fuzzy Integration for Pattern Recognition of Iris Biometric Measure. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 363-373	0.9	3
348	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> , <b>2013</b> , 3-26	0.7	3
347	A new metaheuristic based on the self-defense techniques of the plants in nature 2016,		3
346	Fuzzy logic research work in Mexico motivated by Lotfi Zadeh. <i>Notes on Intuitionistic Fuzzy Sets</i> , <b>2021</b> , 27, 1-10	1.4	3
345	Using Fuzzy Inference Systems for the Creation of Forex Market Predictive Models. <i>IEEE Access</i> , <b>2021</b> , 9, 69391-69404	3.5	3
344	Optimal Design of Fuzzy Controllers Using the Multiverse Optimizer. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 289-298	0.4	3
343	Theory of Fuzzy Chaos for the Simulation and Control of Nonlinear Dynamical Systems <b>2006</b> , 391-414		3

342	Generalized Type-2 Fuzzy Parameter Adaptation in the Marine Predator Algorithm for Fuzzy Controller Parameterization in Mobile Robots. <i>Symmetry</i> , <b>2022</b> , 14, 859	2.7	3
341	A FPGA-Based Hardware Architecture Approach for Real-Time Fuzzy Edge Detection. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 519-540	0.8	2
340	On the Graphical Representation of Intuitionistic Membership Functions for Its Use in Intuitionistic Fuzzy Inference Systems. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 115-126	0.8	2
339	A New Proposal for a Granular Fuzzy C-Means Algorithm. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 47-57	0.8	2
338	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> , <b>2018</b> ,	0.4	2
337	Path Following Fuzzy System for a Nonholonomic Mobile Robot Based on Frontal Camera Information. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 223-240	0.8	2
336	Fuzzy Adaptation for Particle Swarm Optimization for Modular Neural Networks Applied to Iris Recognition. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 104-114	0.4	2
335	Fuzzy Chemical Reaction Algorithm with Dynamic Adaptation of Parameters. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 122-130	0.4	2
334	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> , <b>2018</b> , 61-72	0.4	2
333	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> , <b>2018</b> , 380-388	0.4	2
332	Fuzzy Topsis Method Associated with Improved Selection of Machines of High Productivity. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 3-12	0.4	2
331	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> , <b>2016</b> , 419-438	0.7	2
330	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> , <b>2016</b> , 375-388	0.7	2
329	Relevance of Polynomial Order in Takagi-Sugeno Fuzzy Inference Systems Applied in Diagnosis Problems <b>2019</b> ,		2
328	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> , <b>2014</b> , 11, 23	2.3	2
327	Using allometric procedures to substantiate the plastochrone method for eelgrass leaf growth assessments. <i>Theoretical Biology and Medical Modelling</i> , <b>2013</b> , 10, 34	2.3	2
326	Statistical comparison of type-1 and type-2 fuzzy systems design with genetic algorithms in the case of three tank water control <b>2013</b> ,		2
325	Optimization of a reactive controller for mobile robots based on CRA <b>2015</b> ,		2

324	Time Series Prediction Using Ensembles of ANFIS Models with Particle Swarm Optimization of the Fuzzy Integrators. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 472-483	0.9	2
323	Optimization of the type-1 and interval type-2 fuzzy integrators in Ensembles of ANFIS models for prediction of the Dow Jones time series <b>2014</b> ,		2
322	A Fuzzy Control Design for an Autonomous Mobile Robot Using Ant Colony Optimization. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 289-304	0.8	2
321	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> , <b>2012</b> , 65-75	0.7	2
320	An edge detection method based on generalized type-2 fuzzy logic <b>2013</b> ,		2
319	An Analysis on the Intrinsic Implementation of the Principle of Justifiable Granularity in Clustering Algorithms. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 121-134	0.8	2
318	Type-2 Fuzzy Inference System Optimization Based on the Uncertainty of Membership Functions Applied to Benchmark Problems. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 454-464	0.9	2
317	2010,		2
316	Direct torque adaptive vector neural control of a three-phase induction motor <b>2010</b> ,		2
315	Simulation of language evolution using Fuzzy Grammars 2012,		2
314	Genetic design of biped walking fuzzy logic controller <b>2009</b> ,		2
313	2009,		2
312	Fuzzy Cellular Model Applied to the Dynamics of a Uni-Specific Population Induced by Environment Variations <b>2008</b> ,		2
311	Fuzzy Modeling Fundamentals <b>2008,</b> 1		2
310	Simple Sequencing and Selection of Learning Objects using Fuzzy Inference 2007,		2
309	Interval Type-2 Fuzzy Logic for Intelligent Control Applications <b>2007</b> ,		2
308	Pattern Recognition for Industrial Monitoring and Security using the Fuzzy Sugeno Integral and Modular Neural Networks. <i>Neural Networks (IJCNN), International Joint Conference on</i> , <b>2007</b> ,		2
307	1 Introduction to Type-2 Fuzzy Logic. <i>Studies in Fuzziness and Soft Computing</i> , <b>2007</b> , 1-4	0.7	2

306	2006,		2	
305	Special issue on soft computing for control of non-linear dynamical systems. <i>Applied Soft Computing Journal</i> , <b>2003</b> , 3, 303-304	7.5	2	
304	Introduction to Pattern Recognition with Intelligent Systems. <i>Studies in Fuzziness and Soft Computing</i> , <b>2005</b> , 1-5	0.7	2	
303	Adaptive control of a stepping motor drive using a hybrid neuro-fuzzy approach		2	
302	A new hybrid approach for plant monitoring and diagnostics combining type-2 fuzzy logic and fractal theory		2	
301	Application of a breeder genetic algorithm for system identification in an adaptive finite impulse response filter		2	
300	Intelligent quality control for manufacturing in the food industry using a new fuzzy-fractal approach <b>1999</b> ,		2	
299	Improving the human evolutionary model: An intelligent optimization method. <i>International Mathematical Forum</i> ,2, 21-44	4.6	2	
298	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> , <b>2018</b> , 12, 3-32	1	2	
297	Introduction to Fuzzy Harmony Search. SpringerBriefs in Applied Sciences and Technology, 2020, 1-4	0.4	2	
296	A New Evolutionary Method Combining Particle Swarm Optimization and Genetic Algorithms Using Fuzzy Logic. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 347-361	0.8	2	
295	Comparative Study of Type-1 and Type-2 Fuzzy Systems Optimized by Hierarchical Genetic Algorithms. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 53-70	0.8	2	
294	Optimization of Fuzzy Trajectory Tracking in Autonomous Mobile Robots Based on Bio-inspired Algorithms. <i>Studies in Computational Intelligence</i> , <b>2021</b> , 249-271	0.8	2	
293	Shadowed Type-2 Fuzzy Systems for Dynamic Parameter Adaptation in Harmony Search and Differential Evolution for Optimal Design of Fuzzy Controllers. <i>Mathematics</i> , <b>2021</b> , 9, 2439	2.3	2	
292	11 Evolutionary Optimization of Interval Type-2 Membership Functions Using the Human Evolutionary Model. <i>Studies in Fuzziness and Soft Computing</i> , <b>2007</b> , 133-144	0.7	2	
291	Stability on Type-1 and Type-2 Fuzzy Logic Systems. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 29-51	0.8	2	
<b>29</b> 0	The Differential Evolution Algorithm with a Fuzzy Logic Approach for Dynamic Parameter Adjustment Using Benchmark Functions. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 169-179	0.8	2	
289	Type-2 Fuzzy Logic for Dynamic Parameter Adaptation in the Imperialist Competitive Algorithm. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 109-118	0.8	2	

288	Hindi Query Expansion based on Semantic Importance of Hindi WordNet Relations and Fuzzy Graph Connectivity Measures. <i>Computacion Y Sistemas</i> , <b>2019</b> , 23,	1.4	2
287	Implementation of a Fuzzy Controller for an Autonomous Mobile Robot in the PIC18F4550 Microcontroller. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 315-325	0.8	2
286	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> , <b>2014</b> , 67-78	0.8	2
285	A Type-2 Fuzzy Neural Network Ensemble to Predict Chaotic Time Series. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 185-195	0.8	2
284	Imperialist Competitive Algorithm with Fuzzy Logic for Parameter Adaptation: A Parameter Variation Study. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 277-289	0.4	2
283	Fuzzy Logic for Improving Interactive Evolutionary Computation Techniques for Ad Text Optimization. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 291-300	0.4	2
282	Metrics for Edge Detection Methods. SpringerBriefs in Applied Sciences and Technology, 2017, 17-19	0.4	2
281	Generalized Type-2 Fuzzy Edge Detection Applied on a Face Recognition System. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2017</b> , 37-41	0.4	2
280	Dynamic Parameter Adaptation for Meta-Heuristic Optimization Algorithms Through Type-2 Fuzzy Logic. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2018</b> ,	0.4	2
279	Theory and Background. SpringerBriefs in Applied Sciences and Technology, 2018, 3-10	0.4	2
278	From Type-1 to Type-2 Fuzzy Logic Control: A Stability and Robustness Study <b>2007</b> , 135-149		2
277	Pattern Recognition for Industrial Security Using the Fuzzy Sugeno Integral and Modular Neural Networks <b>2007</b> , 105-114		2
276	Optimization of Artificial Neural Network Architectures for Time Series Prediction Using Parallel Genetic Algorithms. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 387-399	0.8	2
275	15 A New Approach for Plant Monitoring Using Type-2 Fuzzy Logic and Fractal Theory. <i>Studies in Fuzziness and Soft Computing</i> , <b>2007</b> , 187-202	0.7	2
274	2 Type-1 Fuzzy Logic. Studies in Fuzziness and Soft Computing, 2007, 5-28	0.7	2
273	Soft Computing Models for Intelligent Control of Non-linear Dynamical Systems. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 43-70	0.8	2
272	Embedding a KM Type Reducer for High Speed Fuzzy Controller into an FPGA. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 217-228		2
271	Bio-Inspired Optimization Methods for Minimization of Complex Mathematical Functions. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 131-142	0.9	2

270	Overview of Genetic Algorithms Applied in the Optimization of Type-2 Fuzzy Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2012</b> , 19-25	0.4	2	
269	Ant Colony Optimization Algorithms for the Design of Type-2 Fuzzy Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2012</b> , 33-35	0.4	2	
268	Edge Detection Methods Based on Generalized Type-2 Fuzzy Logic Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2017</b> , 21-35	0.4	2	
267	Comparative Study of Fuzzy Methods for Response Integration in Ensemble Neural Networks for Pattern Recognition. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 123-140	0.8	2	
266	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> , <b>2011</b> , 331-342	0.9	2	
265	An Exhaustive Review of Bio-Inspired Algorithms and its Applications for Optimization in Fuzzy Cluster	ing	2	
264	A New Approach for Dynamic Stochastic Fractal Search with Fuzzy Logic for Parameter Adaptation. <i>Fractal and Fractional</i> , <b>2021</b> , 5, 33	3	2	
263	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> , <b>2016</b> , 317-329	0.7	2	
262	Type-1 to Type-n Fuzzy Logic and Systems. Studies in Fuzziness and Soft Computing, 2016, 129-157	0.7	2	
261	Background on Type-1 and Type-2 Fuzzy Logic. Studies in Fuzziness and Soft Computing, 2019, 5-19	0.7	2	
260	Framework for Optimization of Intuitionistic and Type-2 Fuzzy Systems in Control Applications. <i>Studies in Fuzziness and Soft Computing</i> , <b>2019</b> , 79-86	0.7	2	
259	Handling data-skewness in character based string similarity join using Hadoop. <i>Applied Computing and Informatics</i> , <b>2020</b> , ahead-of-print,	4.2	2	
258	Nature-Inspired Optimization of Type-2 Fuzzy Logic Controllers. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 4-6	0.4	2	
257	Performance Evaluation of Optimization Algorithms based on GPU using CUDA Architecture 2018,		2	
256	Differential Evolution Algorithm Using a Dynamic Crossover Parameter with High-Speed Interval Type 2 Fuzzy System. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 369-378	0.9	2	
255	A new meta-heuristic optimization algorithm based on a paradigm from physics: string theory. Journal of Intelligent and Fuzzy Systems, <b>2021</b> , 41, 1657-1675	1.6	2	
254	Introduction to Interval Type-3 Fuzzy Systems. Studies in Fuzziness and Soft Computing, 2022, 1-4	0.7	2	
253	Gravitational Search Algorithm with Parameter Adaptation Through a Fuzzy Logic System. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 391-405	0.8	1	

252	A Study of Parameter Dynamic Adaptation with Fuzzy Logic for the Grey Wolf Optimizer Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 228-238	0.9	1
251	Design of Optimal Fuzzy Controllers for Autonomous Mobile Robots Using the Grey Wolf Algorithm. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 285-295	0.4	1
250	Fuzzy Controllers for Autonomous Mobile Robots <b>2015</b> , 1517-1531		1
249	Optimization of Reactive Fuzzy Controllers for Mobile Robots Based on the Chemical Reactions Algorithm. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 253-266	0.8	1
248	A Method Based on Interactive Evolutionary Computation for Increasing the Effectiveness of Advertisement Texts <b>2015</b> ,		1
247	An open source implementation of an intuitionistic fuzzy inference system in Clojure 2017,		1
246	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> , <b>2018</b> , 94-103	3 <sup>0.4</sup>	1
245	Trajectory Optimization for an Autonomous Mobile Robot Using the Bat Algorithm. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 232-241	0.4	1
244	An Approach for Optimization of Intuitionistic and Type-2 Fuzzy Systems in Pattern Recognition Applications <b>2019</b> ,		1
243	Optimization of ensemble neural networks with fuzzy integration using the particle swarm algorithm for the US Dollar/MX time series prediction <b>2014</b> ,		1
242	A visual toolbox for modeling and testing multi-net neural systems. <i>Computer Applications in Engineering Education</i> , <b>2013</b> , 21, 164-184	1.6	1
241	Optimization of interval type-2 and type-1 fuzzy integrators in ensembles of ANFIS models with Genetic Algorithms <b>2013</b> ,		1
240	Optimization of ensemble neural networks with type-2 fuzzy response integration for predicting the Mackey-Glass time series <b>2013</b> ,		1
239	Type-2 Fuzzy Granular Models. SpringerBriefs in Applied Sciences and Technology, 2017,	0.4	1
238	Fuzzy Chemical Reaction Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 452-459	0.9	1
237	Proposed augmentation of the Bat Algorithm using fuzzy logic for dynamic parameter adaptation <b>2015</b> ,		1
236	Particle Swarm Optimization in the Design of Type-2 Fuzzy Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2012</b> , 27-31	0.4	1
235	Type-2 fuzzy granular approach for intelligent control: The case of three tank water control <b>2012</b> ,		1

234	High Performance Fuzzy Systems for Real World Problems. <i>Advances in Fuzzy Systems</i> , <b>2012</b> , 2012, 1-2	1.7	1
233	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> , <b>2013</b> , 239-263	0.7	1
232	Interval Type-2 Fuzzy Logic for Hybrid Intelligent Control. <i>Studies in Fuzziness and Soft Computing</i> , <b>2013</b> , 91-94	0.7	1
231	Backpropagation learning method with interval type-2 fuzzy weights in neural networks 2013,		1
230	Optimization of Interval Type-2 and Type-1 Fuzzy Integrators in Ensembles of ANFIS Models with Genetic Algorithms <b>2013</b> ,		1
229	Optimization of Fuzzy Logic Controllers for Robotic Autonomous Systems with PSO and ACO. <i>Adaptation, Learning, and Optimization</i> , <b>2011</b> , 389-417	0.7	1
228	2011,		1
227	Genetic algorithm with a Neuro-Fuzzy fitness function for optimal fuzzy controller design 2011,		1
226	Hybrid system for cardiac arrhythmia classification with fuzzy k-nearest neighbors and Multi Layer Perceptrons combined by a fuzzy inference system <b>2010</b> ,		1
225	Design of fuzzy systems using a new chemical optimization paradigm <b>2011</b> ,		1
224	Distributed parameter bioprocess plant identification and I-term control using centralized recurrent neural network models <b>2011</b> ,		1
223	A hybrid approach with the wavelet transform, modular neural networks and fuzzy integrals for face and fingerprint recognition <b>2009</b> ,		1
222	Preface to the special issue on analysis and design of hybrid intelligent systems. <i>International Journal of Intelligent Systems</i> , <b>2009</b> , 24, 1077-1079	8.4	1
221	Decentralized direct and indirect I-term adaptive fuzzy-neural control of a bioprocess plant 2012,		1
220	Design of Intelligent Systems with Interval Type-2 Fuzzy Logic575-601		1
219	2007,		1
219	2007,  Evolutionary design and applications of hybrid intelligent systems. International Journal of Innovative Computing and Applications, 2007, 1, 48	0.4	1

216	A New Hybrid Fuzzy-Fractal Approach for Plant Monitoring and Diagnostics. <i>International Journal of Smart Engineering System Design</i> , <b>2003</b> , 5, 417-427		1
215	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> , <b>2003</b> , 43, 1-15		1
214	Fuzzy logic for plant monitoring and diagnostics		1
213	Intelligent control of the transmission power in cellular phones using fuzzy logic		1
212	A reprogrammable hardware fuzzy controller for the battery charging process		1
211	The Evolutionary Learning Rule in System Identification <b>2005</b> , 195-212		1
210	Preface to the special issue on soft computing for modeling, simulation, and control of nonlinear dynamical systems. <i>International Journal of Intelligent Systems</i> , <b>2005</b> , 20, 127-129	8.4	1
209	Application of a breeder genetic algorithm for filter optimization. <i>Natural Computing</i> , <b>2005</b> , 4, 11-37	1.3	1
208	Human Evolutionary Model. <i>Journal of Intelligent Systems</i> , <b>2005</b> , 14,	1.5	1
207	Modelling complex dynamical systems with a new fuzzy inference system for differential equations: the case of robotic dynamic systems <b>1999</b> ,		1
206	A general method for surface quality control in intelligent manufacturing of materials using a new fuzzy-fractal approach		1
205	Multi-objective quantum tunicate swarm optimization with deep learning model for intelligent dystrophinopathies diagnosis. <i>Soft Computing</i> ,1	3.5	1
204	Interval Type-2 Fuzzy Dynamic Parameter Adaptation in Bee Colony Optimization for Autonomous Mobile Robot Navigation. <i>Studies in Fuzziness and Soft Computing</i> , <b>2021</b> , 45-62	0.7	1
203	Evolutionary Computing for Topology Optimization of Fuzzy Systems in Intelligent Control <b>2006</b> , 633-6	47	1
202	A Hybrid Model Based on a Cellular Automata and Fuzzy Logic to Simulate the Population Dynamics. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 189-203	0.8	1
201	Fuzzy Logic Systems. SpringerBriefs in Applied Sciences and Technology, 2021, 5-8	0.4	1
200	Modelling, Simulation and Behavior Identification of Non-Linear Dynamical Systems with a New Fuzzy-Fractal-Genetic Approach. <i>Advances in Fuzzy Systems</i> , <b>2000</b> , 95-106		1
199	A Hybrid Fuzzy-Fractal Approach for Time Series Analysis and Prediction and Its Applications to Plant Monitoring. <i>Power Systems</i> , <b>2002</b> , 209-219	0.4	1

198	Dynamic Parameter Adaptation Using Interval Type-2 Fuzzy Logic in Bio-Inspired Optimization Methods. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 1-12	0.4	1
197	Fuzzy Control for Systems with Dead-Zone and Backlash. <i>Studies in Fuzziness and Soft Computing</i> , <b>2019</b> , 55-71	0.7	1
196	Optimization of Modular Neural Networks for Pattern Recognition with Parallel Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 223-235	0.9	1
195	Implementation a Fuzzy System for Trajectory Tracking of an Omnidirectional Mobile Autonomous Robot. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 327-340	0.8	1
194	Omnidirectional Four Wheel Mobile Robot Control with a Type-2 Fuzzy Logic Behavior-Based Strategy. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 49-62	0.8	1
193	Optimization of Type-2 and Intuitionistic Fuzzy Systems in Intelligent Control. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 292-300	0.4	1
192	Comparison of Neural Network Models Applied to Human Recognition. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 130-142	0.4	1
191	Evaluation of Parallel Exploration and Exploitation Capabilities in Two PSO Variants with Intra Communication. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 169-184	0.8	1
190	Environment Recognition for Path Generation in Autonomous Mobile Robots. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 273-288	0.8	1
189	Towards Tracking Trajectory of Planar Quadrotor Models. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 313-323	0.8	1
188	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> , <b>2020</b> , 355-3	<del>ග</del> 8	1
187	Study Cases to Test Fuzzy Harmony Search. SpringerBriefs in Applied Sciences and Technology, <b>2020</b> , 13-6	5 <b>7</b> .4	1
186	Fuzzy Dynamic Parameter Adaptation for Particle Swarm Optimization of Modular Granular Neural Networks Applied to Time Series Prediction. <i>Studies in Computational Intelligence</i> , <b>2021</b> , 189-204	0.8	1
185	A Neural Network with a Learning Vector Quantization Algorithm for Multiclass Classification Using a Modular Approach. <i>Studies in Fuzziness and Soft Computing</i> , <b>2016</b> , 171-184	0.7	1
184	Optimization of an Integrator to Control the Flight of an Airplane. <i>Studies in Fuzziness and Soft Computing</i> , <b>2016</b> , 407-417	0.7	1
183	Choquet Integral with Interval Type 2 Sugeno Measures as an Integration Method for Modular Neural Networks. <i>Studies in Fuzziness and Soft Computing</i> , <b>2016</b> , 71-86	0.7	1
182	Advances in Granular Computing. SpringerBriefs in Applied Sciences and Technology, 2017, 19-35	0.4	1
181	Theory and Background. SpringerBriefs in Applied Sciences and Technology, 2017, 7-11	0.4	1

180	Toward General Type-2 Fuzzy Logic Systems Based on Shadowed Sets. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 131-142	0.4	1
179	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> , <b>2018</b> , 162-	17 <del>0</del> ·4	1
178	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> , <b>2018</b> , 291-306	0.7	1
177	Tracking Control for a Unicycle Mobile Robot Using a Fuzzy Logic Controller <b>2007</b> , 243-253		1
176	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> , <b>2009</b> , 33-47	0.8	1
175	A Fuzzy Reactive Controller of a Mobile Robot. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 225-232	0.8	1
174	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> , <b>2016</b> , 373-385	0.7	1
173	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> , <b>2017</b> , 431-455	0.8	1
172	Fuzzy Logic for Combining Particle Swarm Optimization and Genetic Algorithms: Preliminary Results. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 444-453	0.9	1
171	Bio-inspired Optimization Methods of Fuzzy Logic Controllers Applied to Linear Plants. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 245-252		1
170	Neuro-Fuzzy Based Output Feedback Controller Design for Biped Robot Walking. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 423-444	0.8	1
169	Direct and Indirect Neural Identification and Control of a Continuous Bioprocess via Marquardt Learning. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 81-102	0.8	1
168	Comparative Study of Type-2 Fuzzy Inference System Optimization Based on the Uncertainty of Membership Functions. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 103-120	0.8	1
167	Genetic Optimization of Interval Type-2 Fuzzy Systems for Hardware Implementation on FPGAs. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2012</b> , 63-84	0.4	1
166	Genetic Optimization of Modular Type-1 Fuzzy Controllers for Complex Control Problems. <i>Studies in Fuzziness and Soft Computing</i> , <b>2013</b> , 125-154	0.7	1
165	Best fit membership function for designing fuzzy logic controller aided intelligent overcurrent fault protection scheme. <i>International Transactions on Electrical Energy Systems</i> , <b>2021</b> , 31, e12875	2.2	1
164	Inventory of a deteriorating green product with preservation technology cost using a hybrid algorithm. <i>Soft Computing</i> , <b>2021</b> , 25, 11621-11636	3.5	1
163	2016,		1

## (2021-2016)

162	Bidding strategies based on type-1 and interval type-2 fuzzy inference systems for Google Adwords advertising campaigns <b>2016</b> ,		1
161	Fuzzy Control Synthesis for Systems with Discontinuous Friction. <i>Studies in Fuzziness and Soft Computing</i> , <b>2019</b> , 73-83	0.7	1
160	Fuzzy Control for Wheeled Mobile Robots. Studies in Fuzziness and Soft Computing, 2019, 85-96	0.7	1
159	Special issue on Type-2 fuzzy systems and granular computing Granular Computing, 2019, 4, 143-143	5.4	1
158	Graphical Representation of Intuitionistic Membership Functions for Its Efficient Use in Intuitionistic Fuzzy Systems. <i>Studies in Fuzziness and Soft Computing</i> , <b>2019</b> , 239-250	0.7	1
157	Control Strategies Based on Interval Type-2 Fuzzy Logic for Autonomous Mobile and Humanoid Robots. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 221-236	0.8	1
156	A Review on the Cuckoo Search Algorithm. Studies in Computational Intelligence, 2021, 113-124	0.8	1
155	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> , <b>2021</b> , 201-219	0.8	1
154	Fuzzy Galactic Swarm Optimization with Dynamic Adjustment of Parameters Based on Fuzzy Logic. Journal of Peridynamics and Nonlocal Modeling, <b>2018</b> , 1, 1	2.1	1
153	Interval Type II Fuzzy Rough Set Rule Based Expert System to Diagnose Chronic Kidney Disease. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 559-568	0.3	1
152	Optimization of Membership Function Parameters for Fuzzy Controllers in Cruise Control Problem Using the Multi-verse Optimizer. <i>Studies in Computational Intelligence</i> , <b>2021</b> , 15-40	0.8	1
151	Type-2 Fuzzy Logic Systems. Studies in Fuzziness and Soft Computing, 2022, 5-11	0.7	1
150	New Concepts on Quadripartitioned Single-Valued Neutrosophic Graph with Real-Life Application. <i>International Journal of Fuzzy Systems</i> ,1	3.6	1
149	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> , <b>2019</b> , 296-305	0.4	О
148	A New Cuckoo Search Algorithm Using Interval Type-2 Fuzzy Logic for Dynamic Parameter Adaptation. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 853-860	0.5	О
147	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	О
146	A Method for Creating Ensemble Neural Networks Using a Sampling Data Approach <b>2007</b> , 355-364		О
145	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> , <b>2021</b> , 163-174	0.8	Ο

144	Frequency Regulation System: A Deep Learning Identification, Type-3 Fuzzy Control and LMI Stability Analysis. <i>Energies</i> , <b>2021</b> , 14, 7801	3.1	О
143	Intelligent Control of Robotic Autonomous Systems using a Neuro-Fuzzy-Genetic Approach <b>2002</b> , 157-	166	О
142	Comparative Study of P, PI, Fuzzy and Fuzzy PI Controllers in Position Control for Omnidirectional Robots. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 714-727	0.9	0
141	Analysis of P, PI, Fuzzy and Fuzzy PI Controllers for Control Position in Omnidirectional Robots. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 339-353	0.8	O
140	Increasing Energy Efficiency of a Preamble Sampling MAC Protocol for Wireless Sensor Networks Using a Fuzzy Logic Approach. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 125-142	0.8	0
139	Nature-Inspired Optimization of Type-2 Fuzzy Systems. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 331-34	<b>44</b> 5.9	O
138	GPU Accelerated Membrane Evolutionary Artificial Potential Field for Mobile Robot Path Planning. <i>Studies in Computational Intelligence</i> , <b>2021</b> , 233-247	0.8	0
137	Regional Gradient Stabilization of Infinite Dimensional Semilinear Systems. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 289-306	0.8	O
136	Background and Theory. SpringerBriefs in Applied Sciences and Technology, 2021, 5-28	0.4	0
135	String Theory Algorithm. SpringerBriefs in Applied Sciences and Technology, 2022, 11-27	0.4	O
134	GPU-Accelerated implementation of a genetically optimized image encryption algorithm. <i>Soft Computing</i> , <b>2021</b> , 1-16	3.5	0
133	Convolutional Neural Network Design Using a Particle Swarm Optimization for Face Recognition. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 233-242	0.5	O
132	Interval Type-3 Fuzzy Sets. Studies in Fuzziness and Soft Computing, 2022, 13-43	0.7	0
131	Interval Type-3 Fuzzy Aggregation of Neural Networks for Multiple Time Series Prediction: The Case of Financial Forecasting. <i>Axioms</i> , <b>2022</b> , 11, 251	1.6	O
130	Interval Type-3 Fuzzy Aggregators for Ensembles of Neural Networks in Time Series Prediction. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 785-793	0.5	0
129	Sensor Less Fuzzy Logic Tracking Control for a Servo System with Friction and Backlash. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 603-613	0.8	
128	Type-2 Fuzzy Logic Augmentation of the Imperialist Competitive Algorithm with Dynamic Parameter Adaptation. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 167-176	0.4	
127	Firefly Algorithm and Grey Wolf Optimizer for Constrained Real-Parameter Optimization. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 531-541	0.4	

126	Dynamic Parameter Adaptation Based on Using Interval Type-2 Fuzzy Logic in Bio-inspired Optimization Methods. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 1-12	0.4
125	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> , <b>2019</b> , 453-465	0.4
124	Bio-Inspired Optimization of Type-2 Fuzzy Controllers <b>2015</b> , 1499-1507	
123	A New Approach for Intelligent Control of Nonlinear Dynamic Plants Using a Benchmark Problem. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 477-487	0.8
122	Comparison of Type-2 Fuzzy Integration for Optimized Modular Neural Networks Applied to Human Recognition. <i>Studies in Systems, Decision and Control</i> , <b>2018</b> , 285-302	0.8
121	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> , <b>2018</b> , 115-121	0.4
120	How to Gauge the Accuracy of Fuzzy Control Recommendations: A Simple Idea. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 287-292	O.4
119	Particle Swarm Optimization with Fuzzy Dynamic Parameters Adaptation for Modular Granular Neural Networks. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 277-288	0.4
118	Experimentation and Results Discussion. SpringerBriefs in Applied Sciences and Technology, 2017, 37-49	O.4
117	Bio-Inspired Optimization of Interval Type-2 Fuzzy Controller Design <b>2015</b> , 183-215	
116	The Proposed Chemical Reaction Algorithm. SpringerBriefs in Applied Sciences and Technology, 2014, 13-	184
115	Design of a Fuzzy System for Flight Control of an F-16 Airplane. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 209-224	0.8
114	Uncertainty-Based Information Granule Formation. Studies in Computational Intelligence, 2014, 113-123	0.8
113	Hierarchical Genetic Algorithms for Fuzzy Inference System Optimization Applied to Response Integration for Pattern Recognition. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 345-356	0.9
112	Bio-Inspired Optimization Methods. SpringerBriefs in Applied Sciences and Technology, 2012, 13-18	0.4
111	Type-2 Fuzzy Logic in Image Analysis and Pattern Recognition. <i>Studies in Fuzziness and Soft Computing</i> , <b>2013</b> , 187-201	0.7
110	Other Methods for Optimization of Type-2 Fuzzy Systems. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2012</b> , 37-43	0.4
109	Comparative study of fuzzy methods for response integration in ensemble neural networks. <i>International Journal of Advanced Intelligence Paradigms</i> , <b>2009</b> , 1, 291	0.5

108	Interval-Related Talks at the North American Fuzzy Information Processing Society Annual Conference NAFIPS <b>0</b> 7. <i>Reliable Computing</i> , <b>2007</b> , 13, 441-443	
107	Interval-Related Talks at the 2007 IEEE Symposium Series on Computational Intelligence. <i>Reliable Computing</i> , <b>2007</b> , 13, 435-440	
106	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> , <b>2003</b> , 5, 455-466	
105	Application of a New Theory of Fuzzy Chaos for the Simulation and Control of NonLinear Dynamical Systems. <i>Systems Analysis Modelling Simulation</i> , <b>2003</b> , 43, 847-865	
104	Development of a Java Library to Solve the School Bus Routing Problem. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2020</b> , 175-196	0.6
103	Proposed Fuzzy Harmony Search Method. SpringerBriefs in Applied Sciences and Technology, <b>2020</b> , 9-11	0.4
102	Evolutionary Modeling Using A Wiener Model <b>2006</b> , 619-632	
101	Intelligent Control and Planning of Autonomous Algorithms Mobile Robots Using Fuzzy Logic and Genetic <b>2007</b> , 255-265	
100	Evolutionary Optimization of a Wiener Model <b>2007</b> , 43-58	
99	Mediative Fuzzy Logic: A Novel Approach for Handling Contradictory Knowledge <b>2007</b> , 75-91	
99 98	Mediative Fuzzy Logic: A Novel Approach for Handling Contradictory Knowledge <b>2007</b> , 75-91  Modeling and Simulation by Petri Networks of a Fault Tolerant Agent Node. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 251-267	0.8
	Modeling and Simulation by Petri Networks of a Fault Tolerant Agent Node. <i>Studies in</i>	0.8
98	Modeling and Simulation by Petri Networks of a Fault Tolerant Agent Node. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 251-267	0.8
98 97	Modeling and Simulation by Petri Networks of a Fault Tolerant Agent Node. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 251-267  Providing Intelligence to Evolutionary Computational Methods <b>2007</b> , 473-481  A Fuzzy Approach for the Sequencing of Didactic Resources in Educational Adaptive Hypermedia	0.8
98 97 96	Modeling and Simulation by Petri Networks of a Fault Tolerant Agent Node. Studies in Computational Intelligence, 2008, 251-267  Providing Intelligence to Evolutionary Computational Methods 2007, 473-481  A Fuzzy Approach for the Sequencing of Didactic Resources in Educational Adaptive Hypermedia Systems 2007, 885-892	
98 97 96 95	Modeling and Simulation by Petri Networks of a Fault Tolerant Agent Node. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 251-267  Providing Intelligence to Evolutionary Computational Methods <b>2007</b> , 473-481  A Fuzzy Approach for the Sequencing of Didactic Resources in Educational Adaptive Hypermedia Systems <b>2007</b> , 885-892  Interval Type-2 Fuzzy Logic Applications. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 203-231  Optimization of Fuzzy Controllers for Autonomous Mobile Robots Using the Stochastic Fractal	0.8
98 97 96 95 94	Modeling and Simulation by Petri Networks of a Fault Tolerant Agent Node. Studies in Computational Intelligence, 2008, 251-267  Providing Intelligence to Evolutionary Computational Methods 2007, 473-481  A Fuzzy Approach for the Sequencing of Didactic Resources in Educational Adaptive Hypermedia Systems 2007, 885-892  Interval Type-2 Fuzzy Logic Applications. Studies in Computational Intelligence, 2009, 203-231  Optimization of Fuzzy Controllers for Autonomous Mobile Robots Using the Stochastic Fractal Search Method. Studies in Computational Intelligence, 2021, 175-188  Review of Fuzzy Control for Path Tracking in the Robotino System. Studies in Computational	o.8 o.8

90	Proposed Method. SpringerBriefs in Applied Sciences and Technology, <b>2021</b> , 13-15	0.4
89	A Breeder Genetic Algorithm for Adaptive Filter Optimization <b>2002</b> , 145-155	
88	Soft Computing for Control of Dynamical Systems <b>2002</b> , 99-102	
87	Adaptive Model-Based Control of Non-linear Plants Using Soft Computing Techniques. <i>Power Systems</i> , <b>2002</b> , 63-74	0.4
86	A Hybrid Fuzzy-Fractal Approach for Time Series Analysis and Prediction and Its Applications to Plant Monitoring <b>2003</b> , 419-430	
85	Automated Quality Control in Sound Speakers Manufacturing Using a Hybrid Neuro-Fuzzy-Fractal Approach <b>2004</b> , 401-417	
84	Problem Statement and Development. SpringerBriefs in Applied Sciences and Technology, 2018, 17-34	0.4
83	A TakagiBugeno-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. Studies in Computational	0.8
82	Simulation Results. SpringerBriefs in Applied Sciences and Technology, <b>2018</b> , 33-46	0.4
81	Problem Statements. SpringerBriefs in Applied Sciences and Technology, 2018, 11-21	0.4
80	Theory and Background. SpringerBriefs in Applied Sciences and Technology, 2018, 5-27	0.4
79	Problem Statement. SpringerBriefs in Applied Sciences and Technology, 2018, 29-32	0.4
78	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> , <b>2018</b> , 580	)-591
77	Money Management for a Foreign Exchange Trading Strategy Using a Fuzzy Inference System. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 275-286	0.8
76	Proposed Classification Method. SpringerBriefs in Applied Sciences and Technology, 2018, 33-39	0.4
75	Simulation Results. SpringerBriefs in Applied Sciences and Technology, 2018, 41-54	0.4
74	Approximation of Intuitionistic Fuzzy Systems for Time Series Analysis in Plant Monitoring and Diagnosis. <i>Studies in Fuzziness and Soft Computing</i> , <b>2019</b> , 87-100	0.7
73	Proposed Method. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2019</b> , 17-22	0.4

72	Theory and Background. SpringerBriefs in Applied Sciences and Technology, 2019, 5-7	0.4
71	DIFFERENTIAL EVOLUTION WITH DYNAMIC ADAPTATION OF PARAMETERS BASED ON A FUZZY LOGIC AUGMENTATION APPROACH. <i>Journal of Universal Mathematics</i> , <b>2019</b> , 2, 183-207	0.1
70	Study of the Relevance of Polynomial Order in Takagi-Sugeno Fuzzy Inference Systems Applied in Diagnosis Problems. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 19-33	0.8
69	Adaptation of Parameters with Binary Cat Swarm Optimization Algorithm of Controller for a Mobile Autonomous Robot. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 35-46	0.8
68	Chemical Reaction Algorithm to Control Problems. Studies in Computational Intelligence, 2020, 185-193	0.8
67	Theory of the Original Harmony Search Method. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2020</b> , 5-7	0.4
66	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> , <b>2015</b> , 369-375	0.4
65	Design of a Fuzzy System for the Fly the de Havilland Beaver. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 81-88	0.4
64	Method for Uncertainty Measurement and Its Application to the Formation of Interval Type-2 Fuzzy Sets. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 61-74	0.4
63	Control Problem and Proposed Method. SpringerBriefs in Applied Sciences and Technology, 2016, 13-19	0.4
62	Theory and Background. SpringerBriefs in Applied Sciences and Technology, 2016, 3-11	0.4
61	Simulation Results. SpringerBriefs in Applied Sciences and Technology, <b>2016</b> , 21-59	0.4
60	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> , <b>2016</b> , 331-351	0.7
59	Optimization of Type-1 and Type-2 Fuzzy Systems Applied to Pattern Recognition. <i>Studies in Fuzziness and Soft Computing</i> , <b>2016</b> , 127-139	0.7
58	Background and Theory. SpringerBriefs in Applied Sciences and Technology, 2017, 5-18	0.4
57	Problem Statements. SpringerBriefs in Applied Sciences and Technology, 2017, 13-21	0.4
56	Fuzzy Logic Dynamic Parameter Adaptation in the Gravitational Search Algorithm. <i>Advances in Intelligent Systems and Computing</i> , <b>2017</b> , 47-57	0.4
55	Bee Colony Optimization Algorithm. SpringerBriefs in Applied Sciences and Technology, <b>2017</b> , 23-32	0.4

## (2014-2009)

54	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> , <b>2009</b> , 3-16	0.8
53	Genetic Optimization for the Design of Walking Patterns of a Biped Robot. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 259-271	0.8
52	Controlling Unstable Non-Minimum-Phase Systems with Fuzzy Logic: The Perturbed Case. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 245-257	0.8
51	Multi-Agent System Based on Psychological Models for Mobile Robots. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 143-159	0.8
50	An Application of Fuzzy Lyapunov Synthesis in the Design of Type-2 Fuzzy Logic Controllers. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 229-236	
49	Embedding a Fuzzy Locomotion Pose Controller for a Wheeled Mobile Robot into an FPGA. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 465-481	0.8
48	Simple Tuning of Type-2 Fuzzy Controllers. Studies in Computational Intelligence, 2010, 103-123	0.8
47	Multi-Agent System with Personality Profiles and Preferences and Learning for Autonomous Mobile Robot with Fuzzy Logic Support. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 233-250	0.8
46	Fuzzy Cellular Model for Predator-Prey Interaction Applied to the Control of Plagues in a Peppers Cropping. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 329-351	0.8
45	Comparative Study of Fuzzy Information Processing in Type-2 Fuzzy Systems. <i>Intelligent Systems Reference Library</i> , <b>2011</b> , 75-93	0.8
44	Simulation Results Illustrating the Optimization of Type-2 Fuzzy Controllers. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2012</b> , 45-62	0.4
43	Bio-inspired Optimization of Interval Type-2 Fuzzy Controllers. <i>Studies in Fuzziness and Soft Computing</i> , <b>2013</b> , 241-254	0.7
42	Particle Swarm Optimization for Multi-objective Control Design Using AT2-FLC in FPGA Device. <i>Studies in Fuzziness and Soft Computing</i> , <b>2013</b> , 97-124	0.7
41	Type-2 Fuzzy Logic Grammars in Language Evolution. Studies in Fuzziness and Soft Computing, 2013, 26	5-28 <del>/</del> 6
40	Theory and Background. SpringerBriefs in Applied Sciences and Technology, 2014, 5-9	0.4
39	Simulation Results. SpringerBriefs in Applied Sciences and Technology, 2014, 27-56	0.4
38	Optimization of Fuzzy Controllers Design Using the Bee Colony Algorithm. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 163-175	0.8
37	Application Problems. SpringerBriefs in Applied Sciences and Technology, <b>2014</b> , 19-26	0.4

36	Chemical Definitions. SpringerBriefs in Applied Sciences and Technology, 2014, 11-12	0.4
35	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> , <b>2014</b> , 125-135	0.8
34	MLP for Electroencephalographic Signals Classification Using Different Adaptive Learning Algorithm. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 369-380	0.8
33	Special Issue on Intelligent Biomedical Data Analysis and Processing. <i>Intelligent Decision Technologies</i> , <b>2021</b> , 15, 13-17	0.7
32	Editorial on Special Issue: Ill rends and Developments on Type-2 Fuzzy Sets and Systems International Journal of Fuzzy Systems, <b>2021</b> , 23, 1055-1056	3.6
31	Fuzzy Lyapunov Synthesis for Nonsmooth Mechanical Systems. <i>Studies in Fuzziness and Soft Computing</i> , <b>2019</b> , 43-54	0.7
30	Fuzzy Control for Biped Robots Under Impacts. Studies in Fuzziness and Soft Computing, 2019, 97-120	0.7
29	Self-defense of the Plants. SpringerBriefs in Applied Sciences and Technology, <b>2019</b> , 9-12	0.4
28	Predator-Prey Model. SpringerBriefs in Applied Sciences and Technology, 2019, 13-15	0.4
27	Gradient Stabilization of Infinite Dimensional Bilinear Systems. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 251-288	0.8
26	Stabilization of Infinite Dimensional Linear Systems. Studies in Systems, Decision and Control, 2021, 11-3	<b>38</b> 0.8
25	Regional Stabilization of Infinite Dimensional Linear Systems. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 73-110	0.8
24	Proposed Methodology. SpringerBriefs in Applied Sciences and Technology, 2021, 29-62	0.4
23	Gradient Stabilization of Infinite Dimensional Linear Systems. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 213-228	0.8
22	Stochastic Fractal Dynamic Search for the Optimization of CECIO17 Benchmark Functions. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 349-357	0.4
21	Beam and Ball Plant System Controlling Using Intuitionistic Fuzzy Control. <i>IFIP Advances in Information and Communication Technology</i> , <b>2021</b> , 255-262	0.5
20	Regional Gradient Stabilization of Infinite Dimensional Linear Systems. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 229-249	0.8
19	Regional Stabilization of Infinite Dimensional Semilinear Systems. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 137-157	0.8

18	Review of Hybrid Combinations of Metaheuristics for Problem Solving Optimization. <i>Studies in Computational Intelligence</i> , <b>2021</b> , 221-232	0.8
17	Experimental Results. SpringerBriefs in Applied Sciences and Technology, 2021, 63-72	0.4
16	On Intuitionistic Fuzzy (mathcal {C})-Ends. <i>Trends in Mathematics</i> , <b>2018</b> , 177-184	0.3
15	A Fuzzy Harmony Search Algorithm for the Optimization of a Benchmark Set of Functions. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 401-412	0.9
14	Bio-inspired Optimization Metaheuristic Algorithm Based on the Self-defense of the Plants. <i>Studies in Fuzziness and Soft Computing</i> , <b>2018</b> , 111-121	0.7
13	Simulation Results. SpringerBriefs in Applied Sciences and Technology, 2022, 29-65	0.4
12	Analysis of Cotton Yarn Count by Fuzzy Logic Model. Algorithms for Intelligent Systems, 2022, 349-361	0.5
11	Implementation and Evaluation of the Controllers. Studies in Fuzziness and Soft Computing, 2021, 101-1	<b>23</b> .7
10	Output Stabilization of Infinite Dimensional Semilinear Systems. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 159-183	0.8
9	Stabilization of Infinite Dimensional Second Order Semilinear Systems. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 185-212	0.8
8	Regional Stabilization of Infinite Dimensional Bilinear Systems. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 111-136	0.8
7	Stabilization of Infinite Dimensional Semilinear Systems. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 39-72	0.8
6	A New Approach for an Intuitionistic Fuzzy Sugeno Integral Using Morphological Gradient Edge Detector. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 26-45	0.4
5	A Review on the Role of Computational Intelligence on Sustainability Development. <i>Studies in Computational Intelligence</i> , <b>2022</b> , 3-18	0.8
4	Fuzzy-Chaotic Variant of the Multiverse Optimizer Algorithm in Benchmark Function Optimization. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 53-63	0.5
3	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> , <b>2022</b> , 839-846	0.5
2	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> , <b>2022</b> , 713-721	0.5
1	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> , <b>2022</b> , 730-738	0.5