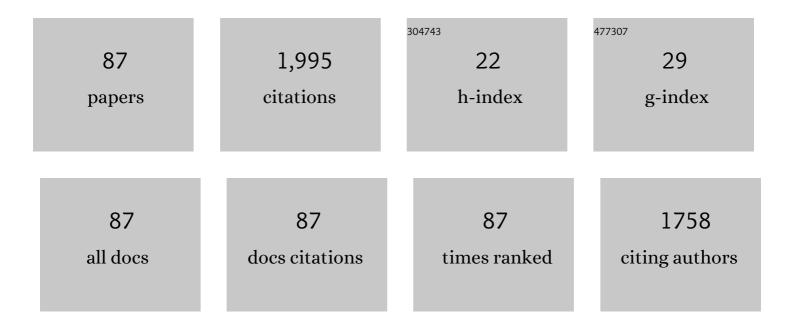
List of Publications by Year in descending order

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FMIL M DETDILL

#	Article	IF	CITATIONS
1	Grey Wolf Optimizer Algorithm-Based Tuning of Fuzzy Control Systems With Reduced Parametric Sensitivity. IEEE Transactions on Industrial Electronics, 2017, 64, 527-534.	7.9	225
2	Evolving Fuzzy Models for Prosthetic Hand Myoelectric-Based Control. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4625-4636.	4.7	120
3	Hybrid Particle Filter–Particle Swarm Optimization Algorithm and Application to Fuzzy Controlled Servo Systems. IEEE Transactions on Fuzzy Systems, 2022, 30, 4286-4297.	9.8	117
4	Novel Adaptive Gravitational Search Algorithm for Fuzzy Controlled Servo Systems. IEEE Transactions on Industrial Informatics, 2012, 8, 791-800.	11.3	102
5	Reinforcement Learning-based control using Q-learning and gravitational search algorithm with experimental validation on a nonlinear servo system. Information Sciences, 2022, 583, 99-120.	6.9	99
6	Optimal tuning of interval type-2 fuzzy controllers for nonlinear servo systems using Slime Mould Algorithm. International Journal of Systems Science, 2023, 54, 2941-2956.	5.5	86
7	Nature-inspired optimal tuning of input membership functions of Takagi-Sugeno-Kang fuzzy models for Anti-lock Braking Systems. Applied Soft Computing Journal, 2015, 27, 575-589.	7.2	83
8	Stability analysis and design of a class of MIMO fuzzy control systems. Journal of Intelligent and Fuzzy Systems, 2013, 25, 145-155.	1.4	73
9	Iterative Data-Driven Tuning of Controllers for Nonlinear Systems With Constraints. IEEE Transactions on Industrial Electronics, 2014, 61, 6360-6368.	7.9	70
10	Fuzzy logicâ€based adaptive gravitational search algorithm for optimal tuning of fuzzyâ€controlled servo systems. IET Control Theory and Applications, 2013, 7, 99-107.	2.1	69
11	Online identification of evolving Takagi–Sugeno–Kang fuzzy models for crane systems. Applied Soft Computing Journal, 2014, 24, 1155-1163.	7.2	63
12	Novel Tensor Product Models for Automatic Transmission System Control. IEEE Systems Journal, 2012, 6, 488-498.	4.6	61
13	Experiment-Based Teaching in Advanced Control Engineering. IEEE Transactions on Education, 2011, 54, 345-355.	2.4	59
14	Data-Driven Reference Trajectory Tracking Algorithm and Experimental Validation. IEEE Transactions on Industrial Informatics, 2013, 9, 2327-2336.	11.3	59
15	Dynamic Sign Language Recognition for Smart Home Interactive Application Using Stochastic Linear Formal Grammar. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 596-605.	4.7	55
16	Tensor productâ€based model transformation approach to tower crane systems modeling. Asian Journal of Control, 2021, 23, 1313-1323.	3.0	54
17	An Easily Understandable Grey Wolf Optimizer and Its Application to Fuzzy Controller Tuning. Algorithms, 2017, 10, 68.	2.1	44
18	Multimodal Bio-Inspired Tactile Sensing Module. IEEE Sensors Journal, 2017, 17, 3231-3243.	4.7	42

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19	Experiment-Based Approach to Teach Optimization Techniques. IEEE Transactions on Education, 2021, 64, 88-94.	2.4	41
20	Combination of Data-Driven Active Disturbance Rejection and Takagi-Sugeno Fuzzy Control with Experimental Validation on Tower Crane Systems. Energies, 2019, 12, 1548.	3.1	35
21	Absolute-type position transducers using a pseudorandom encoding. IEEE Transactions on Instrumentation and Measurement, 1987, IM-36, 950-955.	4.7	30
22	Multimodal Bio-Inspired Tactile Sensing Module for Surface Characterization. Sensors, 2017, 17, 1187.	3.8	24
23	Virtual Reference Feedback Tuning of Model-Free Control Algorithms for Servo Systems. Machines, 2017, 5, 25.	2.2	23
24	Evolving fuzzy models for myoelectric-based control of a prosthetic hand. , 2016, , .		20
25	Tensor product-based model transformation for position control of magnetic levitation systems. , 2017, , .		19
26	Model-free tuning solution for sliding mode control of servo systems. , 2014, , .		15
27	Dynamic hand gesture recognition for human-robot and inter-robot communication. , 2014, , .		15
28	Estimating the Orientation of Objects from Tactile Sensing Data Using Machine Learning Methods and Visual Frames of Reference. Sensors, 2019, 19, 2285.	3.8	15
29	Multi-robot CSA- and PSO-based optimal path planning in static environments. , 2013, , .		14
30	Data-driven model-free control of twin rotor aerodynamic systems: Algorithms and experiments. , 2014, , .		13
31	Recurrent dynamic neural network model for myoelectric-based control of a prosthetic hand. , 2016, ,		13
32	Model -Free Adaptive Control With Fuzzy Component for Tower Crane Systems. , 2019, , .		13
33	Human action recognition from local part model. , 2011, , .		11
34	Adaptive control solutions for the position control of electromagnetic actuated clutch systems. , 2012, , .		10
35	Dynamic sign language and voice recognition for smart home interactive application. , 2013, , .		10
36	Tensor productâ€based model transformation approach to cart position modeling and control in pendulumâ€cart systems. Asian Journal of Control, 2021, 23, 1238-1248.	3.0	9

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37	Adaptive hybrid Particle Swarm Optimization-Gravitational Search Algorithm for fuzzy controller tuning. , 2014, , .		8
38	Model predictive control solution for magnetic levitation systems. , 2015, , .		8
39	Dynamic hand gesture recognition from Bag-of-Features and local part model. , 2012, , .		7
40	Performance analysis of torque motor systems with PID controllers tuned by Bacterial Foraging Optimization algorithms. , 2014, , .		7
41	Data-driven optimal model-free control of twin rotor aerodynamic systems. , 2015, , .		7
42	Teaching a Robot Sign Language using Vision-Based Hand Gesture Recognition. , 2018, , .		7
43	Data-Driven Model-Free Sliding Mode and Fuzzy Control with Experimental Validation. International Journal of Computers, Communications and Control, 2021, 16, .	1.8	7
44	Modeling and control of an Electric drive system with continuously variable reference, moment of inertia and load disturbance. , 2013, , .		6
45	Backtracking Search Optimization Algorithm-based approach to PID controller tuning for torque motor systems. , 2015, , .		6
46	PI and PID controller tuning for an automotive application using backtracking search optimization algorithms. , 2015, , .		6
47	Design of Low-Cost Fuzzy Controllers with Reduced Parametric Sensitivity Based on Whale Optimization Algorithm. , 2020, , .		6
48	Low-cost neuro-fuzzy control solution for servo systems with variable parameters. , 2013, , .		5
49	Evolving fuzzy models for the position control of twin rotor aerodynamic systems. , 2016, , .		5
50	Structure and Evolving Fuzzy Models for Prosthetic Hand Myoelectric-Based Control Systems. , 2018, , $\cdot$		5
51	In-Hand Telemanipulation Using a Robotic Hand and Biology-Inspired Haptic Sensing. , 2019, , .		5
52	Intelligent Parking Vehicle Identification and Classification System. , 2021, , .		5
53	Nature-Inspired Optimization Algorithms for Path Planning and Fuzzy Tracking Control of Mobile Robots. Springer Tracts in Nature-inspired Computing, 2021, , 129-148.	0.7	5
54	Teleoperated Grasping Using a Robotic Hand and a Haptic-Feedback Data Glove. , 2020, , .		5

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55	Stable Iterative Correlation-based Tuning algorithm for servo systems. , 2012, , .		4
56	Experiment-based approach to reference trajectory tracking. , 2012, , .		4
57	Multi-robot charged system search-based optimal path planning in static environments. , 2014, , .		4
58	Design and testing of a constrained data-driven iterative reference input tuning algorithm. , 2014, , .		4
59	Takagi-Sugeno PD+I fuzzy control of processes with variable moment of inertia. , 2015, , .		4
60	Evolving fuzzy models for the position control of magnetic levitation systems. , 2017, , .		4
61	Fuzzy controlled object manipulation using a three-fingered robotic hand. , 2017, , .		4
62	Takagi-Sugeno fuzzy controller structures for twin rotor aerodynamic systems. , 2017, , .		4
63	Tactile Profile Classification Using a Multimodal MEMs-Based Sensing Module. Proceedings (mdpi), 2017, 1, 27.	0.2	4
64	Tensor Product–Based Model Transformation and Sliding Mode Control of Electromagnetic Actuated Clutch System. , 2019, , .		4
65	Dynamic Tactile Exploration for Texture Classification using a Miniaturized Multi-modal Tactile Sensor and Machine Learning. , 2020, , .		4
66	Magnetic Levitation System laboratory-based education in control engineering. , 2010, , .		3
67	Object Recognition Through Manipulation Using Tactile Enabled Prosthetic Fingers and Feedback Glove - Experimental Study. , 2018, , .		3
68	Biology-inspired multimodal tactile sensor system. , 2011, , .		2
69	2-DOF PI(D) Takagi-Sugeno and sliding mode controllers for BLDC drives. , 2012, , .		2
70	Takagi-Sugeno fuzzy control solutions for BLDC drives. , 2012, , .		2
71	Simulated annealing-based optimization of fuzzy models for magnetic levitation systems. , 2013, , .		2
72	Iterative Data-Driven Controller Tuning with Actuator Constraints and Reduced Sensitivity. Journal of Aerospace Information Systems, 2014, 11, 551-564.	1.4	2

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73	Particle Swarm Optimization of fuzzy models for electromagnetic actuated clutch systems. , 2016, , .		2
74	Comparative Study of Control Structures for Maglev Systems. , 2018, , .		2
75	Heart Rate Detection Using a Miniaturized Multimodal Tactile Sensor. , 2019, , .		2
76	Simulated annealing approach to fuzzy modeling of servo systems. , 2013, , .		1
77	Constrained data-driven controller tuning for nonlinear systems. , 2013, , .		1
78	Optimal motion prediction using a primitive-based model-free iterative control approach for crane systems. , 2015, , .		1
79	Model-based filtering and compression of oscillometric blood pressure pulses. , 2016, , .		1
80	Stable grasping and object reorientation with a three-fingered robotic hand. , 2017, , .		1
81	Combined control solution for an advanced mechatronics application. , 2017, , .		1
82	Fuzzy logic-based adaptive control scheme for magnetic levitation systems. , 2017, , .		1
83	Neuro-Fuzzy Grasp Control for a Teleoperated Five Finger Anthropomorphic Robotic Hand. , 2022, , .		1
84	2-DOF control solutions for an electric drive system under continuously variable conditions. , 2013, , .		0
85	Bio-inspired solutions for intelligent android perception and control. , 2013, , .		0
86	Experiment-based comparison of nature-inspired algorithms for optimal tuning of PI-fuzzy controlled nonlinear DC servo systems. , 2016, , .		0
87	Wilt Dataset-based Comparative Analysis of Three Neural Networks. , 2020, , .		Ο