Vineet Kumar

List of Publications by Year
in descending order

63 papers	2,342 citations	218381 26 h-index	214527 47 g-index
64 all docs	64 docs citations	64 times ranked	1685 citing authors

#	ARTICLE	IF	CITATIONS
1	Parameter estimation of photovoltaic cells using an improved chaotic whale optimization algorithm. Applied Energy, 2017, 200, 141-154.	5.1	491
2	Parameter estimation of solar cells diode models by an improved opposition-based whale optimization algorithm. Energy Conversion and Management, 2018, 171, 1843-1859.	4.4	215
3	Performance analysis of fractional order fuzzy PID controllers applied to a robotic manipulator. Expert Systems With Applications, 2014, 41, 4274-4289.	4.4	199
4	PV cell and module efficient parameters estimation using Evaporation Rate based Water Cycle Algorithm. Swarm and Evolutionary Computation, 2017, 35, 93-110.	4.5	135
5	A novel approach to parameter estimation of photovoltaic systems using hybridized optimizer. Energy Conversion and Management, 2019, 187, 486-511.	4.4	92
6	A Chaotic Improved Artificial Bee Colony for Parameter Estimation of Photovoltaic Cells. Energies, 2017, 10, 865.	1.6	88
7	A fractional order fuzzy PID controller for binary distillation column control. Expert Systems With Applications, 2015, 42, 8533-8549.	4.4	85
8	Robust speed control of hybrid electric vehicle using fractional order fuzzy PD and PI controllers in cascade control loop. Journal of the Franklin Institute, 2016, 353, 1713-1741.	1.9	75
9	Nonlinear adaptive fractional order fuzzy PID control of a 2-link planar rigid manipulator with payload. Journal of the Franklin Institute, 2017, 354, 993-1022.	1.9	62
10	Design of robust fractional order fuzzy sliding mode PID controller for two link robotic manipulator system. Journal of Intelligent and Fuzzy Systems, 2018, 35, 5301-5315.	0.8	50
11	A Novel $\frac{dP}{dI}$ based control scheme using GWO tuned PID controller for efficient MPPT of PEM fuel cell. ISA Transactions, 2019, 93, 312-324.	3.1	46
12	Self-tuned robust fractional order fuzzy PD controller for uncertain and nonlinear active suspension system. Neural Computing and Applications, 2018, 30, 1827-1843.	3.2	45
13	A hybrid Harris hawks-moth-flame optimization algorithm including fractional-order chaos maps and evolutionary population dynamics. Advances in Engineering Software, 2021, 154, 102973.	1.8	42
14	Enhanced Marine Predators Algorithm for identifying static and dynamic Photovoltaic models parameters. Energy Conversion and Management, 2021, 236, 113971.	4.4	42
15	A multimodal hierarchical approach to speech emotion recognition from audio and text. Knowledge-Based Systems, 2021, 229, 107316.	4.0	40
16	Parallel fuzzy P+fuzzy I+fuzzy D controller: Design and performance evaluation. International Journal of Automation and Computing, 2010, 7, 463-471.	4.5	38
17	A nonlinear PID controller based novel maximum power point tracker for PV systems. Journal of the Franklin Institute, 2018, 355, 7827-7864.	1.9	35
18	A novel life choice-based optimizer. Soft Computing, 2020, 24, 9121-9141.	2.1	33

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19	A novel complex-valued convolutional neural network for medical image denoising. Biomedical Signal Processing and Control, 2021, 69, 102859.	3.5	32
20	Control of a Two Link Planar Electrically-Driven Rigid Robotic Manipulator Using Fractional Order SOFC. Advances in Intelligent Systems and Computing, 2018, , 57-68.	0.5	31
21	A novel intelligent controller for combating stiction in pneumatic control valves. Control Engineering Practice, 2014, 33, 94-104.	3.2	30
22	Efficient Design of Discrete Fractional-Order Differentiators Using Nelderâ€"Mead Simplex Algorithm. Circuits, Systems, and Signal Processing, 2016, 35, 2155-2188.	1.2	30
23	Efficient control of integrated power system using self-tuned fractional-order fuzzy PID controller. Neural Computing and Applications, 2019, 31, 4137-4155.	3.2	30
24	An online tuned novel nonlinear PI controller for stiction compensation in pneumatic control valves. ISA Transactions, 2015, 58, 434-445.	3.1	29
25	Fractional-order self-tuned fuzzy PID controller for three-link robotic manipulator system. Neural Computing and Applications, 2020, 32, 7235-7257.	3.2	29
26	A robust fractional order fuzzy P + fuzzy I + fuzzy D controller for nonlinear and uncertain system. International Journal of Automation and Computing, 2017, 14, 474-488.	4.5	28
27	Design of Fractional Order Fuzzy Sliding Mode Controller for Nonlinear Complex Systems. , 2018, , 249-282.		27
28	Parameter extraction of fuel cells using hybrid interior search algorithm. International Journal of Energy Research, 2019, 43, 2854-2880.	2.2	26
29	A topic modeled unsupervised approach to single document extractive text summarization. Knowledge-Based Systems, 2022, 246, 108636.	4.0	25
30	Efficient Modeling of Linear Discrete Filters Using Ant Lion Optimizer. Circuits, Systems, and Signal Processing, 2017, 36, 1535-1568.	1.2	22
31	Robust trajectory tracking control of non-holonomic wheeled mobile robots using an adaptive fractional order parallel fuzzy PID controller. Journal of the Franklin Institute, 2022, 359, 4160-4215.	1.9	20
32	Stability Analysis of Parallel Fuzzy P + Fuzzy I + Fuzzy D Control Systems. International Journal of Automation and Computing, 2013, 10, 91-98.	4.5	14
33	A fractional order fuzzy PD+I controller for three-link electrically driven rigid robotic manipulator system. Journal of Intelligent and Fuzzy Systems, 2018, 35, 5287-5299.	0.8	14
34	An adaptive robust fuzzy PI controller for maximum power point tracking of photovoltaic system. Optik, 2022, 259, 168942.	1.4	13
35	Efficient control of a 3-link planar rigid manipulator using self-regulated fractional-order fuzzy PID controller. Applied Soft Computing Journal, 2019, 82, 105531.	4.1	12
36	Development of Backtracking Search Optimization Algorithm Toolkit in LabVIEWâ„¢. Procedia Computer Science, 2015, 57, 241-248.	1.2	11

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37	Some investigations on hybrid fuzzy IPD controllers for proportional and derivative kick suppression. International Journal of Automation and Computing, 2016, 13, 516-528.	4.5	10
38	Efficient maximum power point tracking in fuel cell using the fractional-order PID controller. , 2021, , 111-132.		8
39	Some investigations on fuzzy P + fuzzy I + fuzzy D controller for non-stationary process. International Journal of Automation and Computing, 2012, 9, 449-458.	4.5	7
40	Control of a Three-Link Manipulator Using Fractional-Order PID Controller. , 2018, , 477-510.		7
41	Time-Varying Pole-Radius IIR Multi-Notch Filters with Improved Performance. Arabian Journal for Science and Engineering, 2019, 44, 7101-7120.	1.7	6
42	Backstepping controller for nonlinear active suspension system. , 2021, , 347-374.		6
43	Single-link flexible joint manipulator control using backstepping technique. , 2021, , 375-406.		6
44	Architecture, performance and stability analysis of a formula-based fuzzy IÂâˆ’Âfuzzy PÂâˆ’Âfuzzy D controller. Soft Computing, 2011, 15, 517-531.	2.1	5
45	Stiction combating intelligent controller tuning: A comparative study. , 2015, , .		5
46	Intelligent Ratio Control in Presence of Pneumatic Control Valve Stiction. Arabian Journal for Science and Engineering, 2016, 41, 677-689.	1.1	5
47	Pneumatic control valve stiction modeling using artificial neural network. , 2017, , .		5
48	Cuckoo search implementation in LabVIEW. , 2016, , .		4
49	Performance Analysis of an Improved Variable Step-Size IC MPPT Technique for SPV System. , 2021, , .		4
50	Oscillation Detection in Control Loops using PRONY Analysis. , 2018, , .		3
51	Automatic oscillations detection and quantification in process control loops using linear predictive coding. Engineering Science and Technology, an International Journal, 2020, 23, 123-143.	2.0	3
52	A nonlinear framework for stiction compensation in ratio control loop. ISA Transactions, 2020, 103, 319-342.	3.1	3
53	Control loop oscillation detection and quantification using PRONY method of IIR filter design and deep neural network. Journal of Intelligent and Fuzzy Systems, 2022, 42, 1141-1154.	0.8	3
54	A Chaosâ€"Infused Mothâ€"Flame Optimizer. Arabian Journal for Science and Engineering, 2022, 47, 10769-10809.	1.7	3

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55	Optimization methods for tunning of SMC gains for manipulator control: A comparative study. , 2016, , .		2
56	Grey Predictor Assisted Fuzzy and Fractional Order Fuzzy Control of a Moving Cart Inverted Pendulum. Studies in Computational Intelligence, 2017, , 57-90.	0.7	2
57	Control of Complex Systems Using Self Organizing Fuzzy Controller. Studies in Fuzziness and Soft Computing, 2016, , 753-772.	0.6	1
58	A BSA Tuned Fractional-Order PID Controller for Enhanced MPPT in a Photovoltaic System. , 2018, , 673-703.		1
59	Comment on â€œImportant notes on parameter estimation of solar photovoltaic cellâ€ by Gnetchejo et al. [Energy Conversion and Management, https://doi.org/10.1016/j.enconman.2019.111870]. Energy Conversion and Management, 2019, 201, 112131.	4.4	1
60	Reply on â€œReply to comment on Important notes on parameter estimation of solar photovoltaic cellâ€ by Gnetchejo et al. [Energy Conversion and Management, https://doi.org/10.1016/j.enconman.2019.111870]. Energy Conversion and Management, 2019, 201, 112234.	4.4	1
61	Performance Enhancement of a MEMS Capacitive Accelerometer Using Fuzzy Logic Controller. Journal of the Institution of Engineers (India): Series B, 2021, 102, 295-310.	1.3	1
62	Detailed Performance Analysis of SPV Array Configurations under Partial Shading Conditions. , 2021, , .		1
63	Comments on â€œDesign of two-layered fractional order fuzzy logic controllers applied to robotic manipulator with variable payloadâ€ Applied Soft Computing Journal, 2017, 51, 145-146.	4.1	0