

# Vineet Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

2,342  
citations

218677

26  
h-index

214800

47  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1685  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.4	3
2	An adaptive robust fuzzy PI controller for maximum power point tracking of photovoltaic system. Optik, 2022, 259, 168942.	2.9	13
3	A topic modeled unsupervised approach to single document extractive text summarization. Knowledge-Based Systems, 2022, 246, 108636.	7.1	25
4	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.	3.4	20
5	A Chaos-Infused Moth-Flame Optimizer. Arabian Journal for Science and Engineering, 2022, 47, 10769-10809.	3.0	3
6	Backstepping controller for nonlinear active suspension system. , 2021, , 347-374.		6
7	Single-link flexible joint manipulator control using backstepping technique. , 2021, , 375-406.		6
8	Performance Analysis of an Improved Variable Step-Size IC MPPT Technique for SPV System. , 2021, , .		4
9	Performance Enhancement of a MEMS Capacitive Accelerometer Using Fuzzy Logic Controller. Journal of the Institution of Engineers (India): Series B, 2021, 102, 295-310.	1.9	1
10	A hybrid Harris hawks-moth-flame optimization algorithm including fractional-order chaos maps and evolutionary population dynamics. Advances in Engineering Software, 2021, 154, 102973.	3.8	42
11	Enhanced Marine Predators Algorithm for identifying static and dynamic Photovoltaic models parameters. Energy Conversion and Management, 2021, 236, 113971.	9.2	42
12	A novel complex-valued convolutional neural network for medical image denoising. Biomedical Signal Processing and Control, 2021, 69, 102859.	5.7	32
13	A multimodal hierarchical approach to speech emotion recognition from audio and text. Knowledge-Based Systems, 2021, 229, 107316.	7.1	40
14	Efficient maximum power point tracking in fuel cell using the fractional-order PID controller. , 2021, , 111-132.		8
15	Detailed Performance Analysis of SPV Array Configurations under Partial Shading Conditions. , 2021, , .		1
16	Automatic oscillations detection and quantification in process control loops using linear predictive coding. Engineering Science and Technology, an International Journal, 2020, 23, 123-143.	3.2	3
17	Fractional-order self-tuned fuzzy PID controller for three-link robotic manipulator system. Neural Computing and Applications, 2020, 32, 7235-7257.	5.6	29
18	A novel life choice-based optimizer. Soft Computing, 2020, 24, 9121-9141.	3.6	33

#	ARTICLE	IF	CITATIONS
19	A nonlinear framework for stiction compensation in ratio control loop. ISA Transactions, 2020, 103, 319-342.	5.7	3
20	Efficient control of a 3-link planar rigid manipulator using self-regulated fractional-order fuzzy PID controller. Applied Soft Computing Journal, 2019, 82, 105531.	7.2	12
21	Parameter extraction of fuel cells using hybrid interior search algorithm. International Journal of Energy Research, 2019, 43, 2854-2880.	4.5	26
22	A Novel $\frac{dP}{dt} = \frac{P}{\tau} - \frac{P}{\tau} \left( \frac{dP}{dt} \right)$ based control scheme using GWO tuned PID controller for efficient MPPT of PEM fuel cell. ISA Transactions, 2019, 93, 312-324.	9.7	16
23	A novel approach to parameter estimation of photovoltaic systems using hybridized optimizer. Energy Conversion and Management, 2019, 187, 486-511.	9.2	92
24	Time-Varying Pole-Radius IIR Multi-Notch Filters with Improved Performance. Arabian Journal for Science and Engineering, 2019, 44, 7101-7120.	3.0	6
25	Comment on "Important notes on parameter estimation of solar photovoltaic cell", by Gnetchejo et al. [Energy Conversion and Management, <a href="https://doi.org/10.1016/j.enconman.2019.111870">https://doi.org/10.1016/j.enconman.2019.111870</a> ]. Energy Conversion and Management, 2019, 201, 112131.	9.2	1
26	Reply on "Reply to comment on Important notes on parameter estimation of solar photovoltaic cell", by Gnetchejo et al. [Energy Conversion and Management, <a href="https://doi.org/10.1016/j.enconman.2019.111870">https://doi.org/10.1016/j.enconman.2019.111870</a> ]. Energy Conversion and Management, 2019, 201, 112234.	9.2	1
27	Efficient control of integrated power system using self-tuned fractional-order fuzzy PID controller. Neural Computing and Applications, 2019, 31, 4137-4155.	5.6	30
28	Self-tuned robust fractional order fuzzy PD controller for uncertain and nonlinear active suspension system. Neural Computing and Applications, 2018, 30, 1827-1843.	5.6	45
29	Control of a Two Link Planar Electrically-Driven Rigid Robotic Manipulator Using Fractional Order SOFC. Advances in Intelligent Systems and Computing, 2018, , 57-68.	0.6	31
30	Oscillation Detection in Control Loops using PRONY Analysis. , 2018, , .		3
31	Control of a Three-Link Manipulator Using Fractional-Order PID Controller. , 2018, , 477-510.		7
32	A BSA Tuned Fractional-Order PID Controller for Enhanced MPPT in a Photovoltaic System. , 2018, , 673-703.		1
33	A nonlinear PID controller based novel maximum power point tracker for PV systems. Journal of the Franklin Institute, 2018, 355, 7827-7864.	3.4	35
34	Parameter estimation of solar cells diode models by an improved opposition-based whale optimization algorithm. Energy Conversion and Management, 2018, 171, 1843-1859.	9.2	215
35	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.	1.4	50
36	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.	1.4	14

#	ARTICLE	IF	CITATIONS
37	Design of Fractional Order Fuzzy Sliding Mode Controller for Nonlinear Complex Systems. , 2018, , 249-282.		27
38	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
39	PV cell and module efficient parameters estimation using Evaporation Rate based Water Cycle Algorithm. Swarm and Evolutionary Computation, 2017, 35, 93-110.	8.1	135
40	Parameter estimation of photovoltaic cells using an improved chaotic whale optimization algorithm. Applied Energy, 2017, 200, 141-154.	10.1	491
41	Comments on “Design of two-layered fractional order fuzzy logic controllers applied to robotic manipulator with variable payload”. Applied Soft Computing Journal, 2017, 51, 145-146.	7.2	0
42	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.	3.4	62
43	Efficient Modeling of Linear Discrete Filters Using Ant Lion Optimizer. Circuits, Systems, and Signal Processing, 2017, 36, 1535-1568.	2.0	22
44	Pneumatic control valve stiction modeling using artificial neural network. , 2017, , .		5
45	A Chaotic Improved Artificial Bee Colony for Parameter Estimation of Photovoltaic Cells. Energies, 2017, 10, 865.	3.1	88
46	Grey Predictor Assisted Fuzzy and Fractional Order Fuzzy Control of a Moving Cart Inverted Pendulum. Studies in Computational Intelligence, 2017, , 57-90.	0.9	2
47	Optimization methods for tuning of SMC gains for manipulator control: A comparative study. , 2016, , .		2
48	Control of Complex Systems Using Self Organizing Fuzzy Controller. Studies in Fuzziness and Soft Computing, 2016, , 753-772.	0.8	1
49	Cuckoo search implementation in LabVIEW. , 2016, , .		4
50	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
51	Intelligent Ratio Control in Presence of Pneumatic Control Valve Stiction. Arabian Journal for Science and Engineering, 2016, 41, 677-689.	1.1	5
52	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.	3.4	75
53	Efficient Design of Discrete Fractional-Order Differentiators Using Nelderâ€“Mead Simplex Algorithm. Circuits, Systems, and Signal Processing, 2016, 35, 2155-2188.	2.0	30
54	Development of Backtracking Search Optimization Algorithm Toolkit in LabVIEWâ„¢. Procedia Computer Science, 2015, 57, 241-248.	2.0	11

#	ARTICLE	IF	CITATIONS
55	Stiction combating intelligent controller tuning: A comparative study. , 2015, , .		5
56	An online tuned novel nonlinear PI controller for stiction compensation in pneumatic control valves. ISA Transactions, 2015, 58, 434-445.	5.7	29
57	A fractional order fuzzy PID controller for binary distillation column control. Expert Systems With Applications, 2015, 42, 8533-8549.	7.6	85
58	Performance analysis of fractional order fuzzy PID controllers applied to a robotic manipulator. Expert Systems With Applications, 2014, 41, 4274-4289.	7.6	199
59	A novel intelligent controller for combating stiction in pneumatic control valves. Control Engineering Practice, 2014, 33, 94-104.	5.5	30
60	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
61	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
62	Architecture, performance and stability analysis of a formula-based fuzzy I <sup>+</sup> fuzzy P <sup>+</sup> fuzzy D controller. Soft Computing, 2011, 15, 517-531.	3.6	5
63	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