

# Yogendra Arya

## List of Publications by Year in descending order

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45  
papers

2,488  
citations

172207

29  
h-index

264894

42  
g-index

46  
all docs

46  
docs citations

46  
times ranked

713  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement in automatic generation control of two-area electric power systems via a new fuzzy aided optimal PIDN-FOI controller. <i>ISA Transactions</i> , 2018, 80, 475-490.	3.1	134
2	BFOA-scaled fractional order fuzzy PID controller applied to AGC of multi-area multi-source electric power generating systems. <i>Swarm and Evolutionary Computation</i> , 2017, 32, 202-218.	4.5	126
3	AGC performance enrichment of multi-source hydrothermal gas power systems using new optimized FOPID controller and redox flow batteries. <i>Energy</i> , 2017, 127, 704-715.	4.5	125
4	A new optimized fuzzy FOPI-FOPD controller for automatic generation control of electric power systems. <i>Journal of the Franklin Institute</i> , 2019, 356, 5611-5629.	1.9	125
5	AGC of PV-thermal and hydro-thermal power systems using CES and a new multi-stage FPIDF-(1+PI) controller. <i>Renewable Energy</i> , 2019, 134, 796-806.	4.3	111
6	Automatic generation control of two-area electrical power systems via optimal fuzzy classical controller. <i>Journal of the Franklin Institute</i> , 2018, 355, 2662-2688.	1.9	110
7	Effect of electric vehicles on load frequency control in interconnected thermal and hydrothermal power systems utilising CF $\hat{\in}$ FOIDF controller. <i>IET Generation, Transmission and Distribution</i> , 2020, 14, 2666-2675.	1.4	109
8	Impact of hydrogen aqua electrolyzer-fuel cell units on automatic generation control of power systems with a new optimal fuzzy TIDF-II controller. <i>Renewable Energy</i> , 2019, 139, 468-482.	4.3	104
9	Cascade $\hat{\in}$ $\langle i \rangle \langle \sup \hat{\rangle} \langle /sup \rangle \langle /i \rangle$ D $\langle i \rangle \langle \sup \hat{\rangle} \langle /sup \rangle \langle /i \rangle$ N controller design for AGC of thermal and hydro $\hat{\in}$ thermal power systems integrated with renewable energy sources. <i>IET Renewable Power Generation</i> , 2021, 15, 504-520.	1.7	93
10	Design and analysis of BFOA-optimized fuzzy PI/PID controller for AGC of multi-area traditional/restructured electrical power systems. <i>Soft Computing</i> , 2017, 21, 6435-6452.	2.1	89
11	A novel CFFOPI-FOPID controller for AGC performance enhancement of single and multi-area electric power systems. <i>ISA Transactions</i> , 2020, 100, 126-135.	3.1	88
12	AGC of a multi-area multi-source hydrothermal power system interconnected via AC/DC parallel links under deregulated environment. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 75, 127-138.	3.3	87
13	(1 $\hat{\in}$ %+ $\hat{\in}$ %PD)-PID cascade controller design for performance betterment of load frequency control in diverse electric power systems. <i>Neural Computing and Applications</i> , 2021, 33, 15433-15456.	3.2	86
14	Frequency stabilization in deregulated energy system using coordinated operation of fuzzy controller and redox flow battery. <i>International Journal of Energy Research</i> , 2021, 45, 7457-7475.	2.2	75
15	AGC of two-area electric power systems using optimized fuzzy PID with filter plus double integral controller. <i>Journal of the Franklin Institute</i> , 2018, 355, 4583-4617.	1.9	71
16	Effect of energy storage systems on automatic generation control of interconnected traditional and restructured energy systems. <i>International Journal of Energy Research</i> , 2019, 43, 6475-6493.	2.2	70
17	AGC of restructured multi-area multi-source hydrothermal power systems incorporating energy storage units via optimal fractional-order fuzzy PID controller. <i>Neural Computing and Applications</i> , 2019, 31, 851-872.	3.2	64
18	Optimal Automatic Generation Control with Hydro, Thermal, Gas, and Wind Power Plants in 2-Area Interconnected Power System. <i>Electric Power Components and Systems</i> , 2020, 48, 558-571.	1.0	62

#	ARTICLE	IF	CITATIONS
19	Optimal control strategyâ€‘based AGC of electrical power systems: A comparative performance analysis. Optimal Control Applications and Methods, 2017, 38, 982-992.	1.3	60
20	AGC performance amelioration in multi-area interconnected thermal and thermal-hydro-gas power systems using a novel controller. Engineering Science and Technology, an International Journal, 2021, 24, 384-396.	2.0	60
21	Advancement of the search process of salp swarm algorithm for global optimization problems. Expert Systems With Applications, 2021, 182, 115292.	4.4	60
22	Frequency excursion mitigation strategy using a novel COA optimised fuzzy controller in wind integrated power systems. IET Renewable Power Generation, 2020, 14, 4071-4085.	1.7	58
23	Integrating layered recurrent ANN with robust control strategy for diverse operating conditions of AGC of the power system. IET Generation, Transmission and Distribution, 2020, 14, 3886-3895.	1.4	55
24	Impact of ultracapacitor and redox flow battery with <scp>JAYA</scp> optimization for frequency stabilization in linked photovoltaicâ€‘thermal system. International Transactions on Electrical Energy Systems, 2021, 31, e12883.	1.2	54
25	Fuzzy Gain Scheduling Controllers for Automatic Generation Control of Two-area Interconnected Electrical Power Systems. Electric Power Components and Systems, 2016, 44, 737-751.	1.0	51
26	Optimal automatic generation control of two-area power systems with energy storage units under deregulated environment. Journal of Renewable and Sustainable Energy, 2017, 9, .	0.8	46
27	Comparative performance investigation of optimal controller for AGC of electric power generating systems. Automatika, 2016, 57, 902-921.	1.2	42
28	AGC of a twoâ€‘area multiâ€‘source power system interconnected via AC/DC parallel links under restructured power environment. Optimal Control Applications and Methods, 2016, 37, 590-607.	1.3	40
29	Heuristic optimization based dynamic weighted state feedback approach for 2DOF PI-controller in automatic voltage regulator. Engineering Science and Technology, an International Journal, 2021, 24, 899-910.	2.0	39
30	Impact of ultraâ€‘capacitor on automatic generation control of electric energy systems using an optimal FFOID controller. International Journal of Energy Research, 2019, 43, 8765.	2.2	38
31	Optimal AGC with redox flow batteries in multi-area restructured power systems. Engineering Science and Technology, an International Journal, 2016, 19, 1145-1159.	2.0	31
32	ICA assisted FTIâ€‘DN controller for AGC performance enrichment of interconnected reheat thermal power systems. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 1919-1935.	3.3	23
33	Utilization of energy storage devices with optimal controller for multi-area hydro-hydro power system under deregulated environment. Sustainable Energy Technologies and Assessments, 2022, 52, 102191.	1.7	19
34	Frequency stabilization in sustainable energy sources integrated power systems using novel cascade noninteger fuzzy controller. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 6213-6235.	1.2	17
35	Tidal turbine support in microgrid frequency regulation through novel cascade Fuzzy-FOPID droop in de-loaded region. ISA Transactions, 2023, 133, 218-232.	3.1	17
36	A Novel Approach for Load Frequency Control of Interconnected Thermal Power Stations. International Journal of Energy Optimization and Engineering, 2012, 1, 85-95.	0.4	14

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37	Application of hybrid fuzzy PID controller for three-area power system with generation rate constraint. International Journal of Energy Technology and Policy, 2012, 8, 159.	0.1	7
38	Two-area AGC in interconnected system under the restructured power system using BFO controller. , 2014, , .		7
39	Two-area AGC in interconnected system under the restructured power system using BFO controller. , 2014, , .		4
40	Automatic generation control for single area power system using GNA tuned PID controller. Journal of Physics: Conference Series, 2020, 1478, 012011.	0.3	4
41	Automatic Generation Control in Multi Area Interconnected Power System by using HVDC Links. International Journal of Power Electronics and Drive Systems, 2012, 2, .	0.5	4
42	Fuzzy Logic Based Frequency Control of Four-Area Electrical Power System Considering Non-Linearities and Boiler Dynamics. International Journal of Electrical and Power Engineering, 2011, 5, 203-213.	0.1	3
43	Y $\frac{1}{4}$ k frekans kontrol $\frac{1}{4}$ nde kullan $\frac{1}{4}$ lan ikincil denetleyicilerin optimizasyonuna y $\frac{1}{4}$ nelik yeni bir hedef fonksiyonu tasar $\frac{1}{4}$ m $\frac{1}{4}$ . Journal of the Faculty of Engineering and Architecture of Gazi University, 2021, 36, 2053-2068.	0.3	2
44	Optimal Power-Frequency Control in Deregulated Thermal, Hydro and Hydrothermal Power Systems with AC-DC Links. Recent Advances in Electrical and Electronic Engineering, 2019, 12, 414-424.	0.2	2
45	A Comparative Analysis of AGC of Two-area Hydro-Thermal Power System Interconnected with AC-DC Parallel Link in Restructured Power System. , 2018, , .		1