

Resume



Name : Dr. Anil Kumar Yadav
Designation : Assistant Professor
Department : Electrical Engineering
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Other Profile Links

Research Gate Link :

Personal Web Link :

Google Scholar Link :

Research Profile

Research Interests : My research interests mainly include Modeling and Simulation of Mechatronic Systems, Intelligent & Nonlinear Control, Hybrid Electric Vehicle, and Renewable Energy.

Brief Research Profile : Almost all physical systems are inherently nonlinear in nature. The controlling of such nonlinear systems or a system subjected to nonlinear disturbances and uncertainties is highly desirable for practical control applications. The main focus of the research is to design of the intelligent controller for a nonlinear and uncertain system with the robust and adaptive feature.

Qualification

Name of the Degree	Year Of Passing	Institute/University
Ph. D	2017	NSIT, University of Delhi, Delhi
M. Tech	2010	NSIT, University of Delhi, Delhi
B. Tech	2007	UPTU, Lucknow

Publications

Year	Journal	Publication	Indexed In
2019	Solar Energy, Elsevier	Design of battery charging circuit through intelligent MPPT using SPV system, Vol. 178	SCI
2017	Arabian Journal for Science and Engineering, Springer	Speed Control of an Uncertain Heavy Duty Vehicle using Improved IMC Technique, Vol. 42	SCI/SCIE
2016	Defence Science Journal	Neuro-Fuzzy based Improved IMC for Speed Control of Nonlinear Heavy Duty Vehicles, Vol. 66	SCI
2016	Computational and Nonlinear Dynamics, ASME Transactions	Improved Self-Tuning Fuzzy Proportional-Integral Derivative Versus Fuzzy-Adaptive Proportional-Integral-Derivative for Speed Control of Nonlinear Hybrid Electric Vehicles, Vol. 11	SCI
2016	Arabian Journal for Science and Engineering, Springer	An Optimized and Improved STF-PID Speed Control of Throttle Controlled HEV, Vol. 41	SCI/SCIE
2015	ISA Transactions, Elsevier	Intelligent Modified Internal Model Control for Speed Control of Nonlinear Uncertain Heavy Duty Vehicles, Vol. 56	SCI
2014	Nonlinear Dynamics, Springer	Robust Adaptive Speed Control of Uncertain Hybrid Electric Vehicle using Electronic Throttle Control with Varying Road Grade, Vol. 76	SCI
2014	Sadhana, Springer	AI based Adaptive Control and Design of Autopilot System for Nonlinear UAV, Vol. 39	SCI
2014	Control Engineering and Applied Informatics	Robust and Optimal Control Analysis of Sun Seeker System, Vol. 16	SCI
2011	Journal of Power Electronics	Optimal Speed Control of Hybrid Electric Vehicles, vol. 11	SCI
2016	Journal of Electrical Systems	Robust Stability Analysis of PMSM with Parametric Uncertainty using Kharitonov Theorem, Vol. 12	Web of Science, Scopus
2013	WRSTSD, Inderscience	Comparative Analysis of Modern control and AI based control for maintaining constant Ambient Temperature, Vol. 10	Scopus
2019	Journal of The Institution of Engineers (India): Series B	Sliding Mode-Based Fuzzy Model Reference Adaptive Control Technique for an Unstable System, Vol. 100	Scopus
2014	International Journal of Powertrains, Inderscience	Robust MRAS Speed Control of Hybrid Electric Vehicle using Sliding-Mode and Fuzzy-Logic Adaptation Mechanism	Scopus
2020	Arabian Journal for Science and Engineering, Springer	Modified IMC Technique for Nonlinear Uncertain Milling CNC Machine Tool System, Vol. 45	SCI/SCIE
2020	Journal of Solar Energy Engineering, ASME Transactions	Advanced solar MPPT techniques under uniform and non-uniform irradiance: A comprehensive review	SCI

Edited Book/Book Chapter

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
Lecture Notes	MATLAB Based Modeling of Conventional and Fuzzy Logic Controller MPPT Techniques for Solar PV System	Springer	Ipuri Anil, Pavan Fuke and Anil Kumar Yadav	978-981-15-4692-1	2021

Research Projects

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
PI	Seed Money Research Grant	Design of solar MPPT based Adjustable Voltage Battery Charger	NIT Hamirpur	13/12/2019	12/12/2022	5 Lakh	On going	NA

Research Supervision

Programme Name	Scholar Name	Research Topic	Status	Year	Co-Supervisor
M.Tech	Rishabh Verma	Comparative Study of Order Reduction Techniques	Completed	2020	NA
M.Tech	Shristi	Power Flow Control of Hybrid Renewable Energy System	Completed	2020	NA
M.Tech	Gopal Sanodiya	Position Control of Electronic Throttle	Completed	2020	Dr. B.B. Sharma
M.Tech	Ipuri Anil	Comparative Analysis of Maximum Power Point Tracking Techniques for Solar Photovoltaic System	Completed	2020	NA
M.Tech	Pavan Sunil Fuke	Performance Analysis of Different Solar Photovoltaic Technology	Completed	2020	NA
M.Tech	Kamal Singh	Power System	On going	2020	NA
Ph.D	Pawan Kr. Pathak	An Extensive Study on Intelligent Control of Renewable Energy System	On going	2018	Dr. PA Alvi
Ph.D	Maloth Ramesh	Renewable Energy	On going	2019	NA

Patents

Name	Reg./Ref.No.	Date Of Award/Filing	Organization	Status
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Teaching

Programme Name	Subjects Taught	From	To	Credits
Lecturer	Electronics Department, MIET Meerut	16/08/2007	19/09/2008	1 Year & 1 Month
Lecturer and Sr. Lecturer	Electronics Department, MIET Meerut	23/07/2009	28/01/2012	2 Year & 6 Month
Teaching Cum Research Fellow (TRF)	ICE Division, NSIT New Delhi	27/01/2012	30/06/2015	3 Year & 5 Month
Assistant Professor	School of Automation, Banasthali Vidyapith (Rajasthan)	27/06/2015	26/11/2018	3 Year & 5 Month
Assistant Professor	Electrical Engineering, NIT Hamirpur (HP)	27/11/2018		-

Administrative Responsibilities

Position Held	Organization	From	To	Remarks
Assistant Faculty In-charge (Student Discipline)	NIT Hamirpur	05/12/2018	03/12/2019	03
Assistant Warden, Himgiri Hostel	NIT Hamirpur	27/03/2019	31/05/2020	12
Assistant Faculty In-charge (Institute Time Table)	NIT Hamirpur	03/12/2019	02/08/2020	2019,31
OIC, Departmental Library	EED, NIT Hamirpur	16/06/2019		05
OIC, EMI Lab	EED, NIT Hamirpur	19/02/2020		2020,02
ANO, Hindi Cell	NIT Hamirpur	04/06/2020	02/08/2020	08

Expert Talks

Title	Place	Year	Description
Fuzzy Logic and its Applications	Banasthali Vidyapith, Rajasthan	2017	One week FDP on "Contemporary Applications and Opportunities in research and Technology" under Scheme of PMMMNMTT, MHRD, GOI
Advanced AI Control Techniques	BVICAM, New Delhi	2016	Two week FDP
Intelligent Control Technique	Dr. B. R. Ambedkar NIT Jalandhar	2019	One week Short Term Course on Optimization and Control Design Techniques Innovations and Challenges (OCDT2018)"

Professional Activities

Name of Activity	Role	Duration	Organization
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Courses Organized

Category	Type	Title	Venue	From	To	Designation
fdp	PMMMNMTT, MHRD, GOI	Recent Trends in Industrial Automation	Banasthali Vidyapith, Rajasthan	02/05/2018	07/05/2018	Coordinator
conference	INDIACom-2018	Intelligent Control on Industry Automation	BVICAM, New Delhi	14/03/2018	16/03/2018	Member, TPC
conference	INDIACom-2016	Intelligent Control on Industry Automation	BVICAM, New Delhi	16/03/2016	18/03/2016	Co-Chairperson
workshop	National Seminar	Instrumentation and Characterization Technique	Banasthali Vidyapith, Rajasthan	22/12/2016	23/12/2016	member of organizing committee

Date :

Place :

Signature