PROFILE

Dr. SANGEETA DAINGADE

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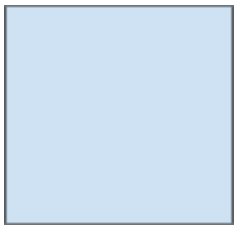

PROFESSIONAL QUALIFICATION

Sr. No.	Degree	Program/Specialisation	University	Year of Passing
1.	B.E./B.Tech.	Electrical	VJTI, Mumbai	1998
2.	M.E./M.Tech.	Power and Control	IIT Kanpur	2004
3.	Ph.D.	Systems and Control	IIT Mumbai	2016

EXPERIENCE

Sr. No.	Organisation	Duration
1.	A.C. Patil College of Engineering	Three Months
2.	Sardar Patel College of Engineering	Sept 1999 to till date

PROFESSIONAL MEMBERSHIP

Sr. No.	Name of professional society	Membership ID
1 .	ISTE	LM32954
2.	IET	1100552571

PAPERS PUBLISHED

International Journal

Sr. No.	Authors	Title of paper	Publisher	Year
1.	SangeetaYamgar (Daingade), G. Nanda, S.C.Srivastava, S.N.Singh, P.Gupta, Dharam Paul and Ram.M. Shrestha	Implications of Carbon Tax on Generation Expansion Plan & GHG Emission: A Case Study on Indian Power Sector	International Journal of Emerging Electric Power Systems, Berkeley Electronic Press	2005
2.	S. Daingade A. Sinha, A. Borkar and H. Arya	A Variant of Cyclic Pursuit for Target Tracking Applications: Theory and Implementation	Autonomous Robots	2015
3.	G. R. Mallik, S. Daingade and A. Sinha	Scalable Multi-agent Formation using Consensus based Deviated Cyclic Pursuit with Bearing only Measurement	European Journal of Control	2016
4.	S. Daingade and A. Sinha	Fail-safe Encircling Strategy for Multiple UAVs with Bearing only Measurement	International Journal of Micro Aerial Vehicles	2016

International Conference

Sr. No.	Authors	Title of paper	Publisher	Year
1.	SangeetaYamgar (Daingade), G. Nanda, S.C.Srivastava, S.N.Singh, P.Gupta, Dharam Paul	Implications of Carbon Tax on Generation Expansion Plan & GHG Emission: A Case Study on Indian Power Sector	Proc. of International Conference on Power System (ICPS 2004)	2004

	and Ram.M. Shrestha			
2.	SangeetaYamgar (Daingade), G. Nanda, S.C.Srivastava, S.N.Singh, P.Gupta, Dharam Paul and Ram.M. Shrestha	Implications of Energy Tax on Generation Expansion Plan & GHG Emission: A Case Study on Indian Power Sector	Proc. of International Conference on Power System Technology (Powercon 2004)	2004
3.	Nandkishor Kinhekar, SangeetaDaingade, AjayshreeWatkar	Current differential protection of Alternator stator winding	International Conference on Power Systems Transients (IPST2009)	2009
4.	Sangeeta Daingade and Arpita Sinha	Cooperative Target Capturing with Multiple Heterogeneous Vehicles	International conference on Advances in Control and Optimization of Dynamic Systems (ACODS-2012)	2012
5.	Sangeeta Daingade and Arpita Sinha	Nonlinear Cyclic Pursuit based Cooperative Target Monitoring	International Symposium on Distributed Autonomous Robotic Systems (DARS - 2012)	2012
6.	S. Daingade , A. V. Borkar , A. Sinha and H. Arya	Implementation of Collective Target Enclosing Strategy with Multiple UAVs using Hardware In- Loop Simulator	International Conference on Intelligent Unmanned Systems (ICIUS 2013)	2013
7.	S. Daingade , A. V. Borkar ,	Study of Target Centric Cyclic Pursuit for MAVs using Hardware In	AIAA Science and Technology	2014

	A. Sinha and H. Arya	**Loop Simulator**	**Forum and Exposition 2014 (AIAA SciTech 2014)**	
8.	**Sangeeta Daingade and Arpita Sinha**	**Target Centric Cyclic Pursuit using Bearing Angle Measurements Only**	**International Conference on Advances in Control and Optimization of Dynamical System ACODS-2014**	**2014**
9.	**S. Daingade , A. V. Borkar , A. Sinha and H. Arya**	**Multi UAV Formation Control for Target Monitoring**	**Indian Control Conference (ICC 2015)**	**2015**
10.	**Galib R. Mallik, Sangeeta Daingade and Arpita Sinha**	**Consensus based Deviated Cyclic Pursuit for Target Tracking Applications**	**European control Conference (ECC 2015)**	**2015**
11.	**G. Hemke and S. Daingade**	**Fast terminal sliding mode based DC-DC buck converter**	**INTERNATIONAL CONFERENCE on Power Electronics, Intelligent Control and Energy Systems (ICPEICES 2016)**	**2016**
12.	**R. I. Kurhade, S. Daingade, A. Sharma and P. C. Saroj**	**Implementation of fast trigger generator for high coulomb spark gap switching**	**International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB)**	**2017**
13	**Manav M. Mepani,**	**Design of robot arm for domestic culinary assistance**	**Materials Today: Proceedings,**	**2022**

	Kshitika B. Gala, Tanish A. Mishra, Kiran Suresh Bhole, Jayram Gholave, Sangeeta Daingade		**Volume 68, Part 6, Pages 1930-1945, ISSN 2214-7853, https://doi.org/10.1016/j.matpr.2022.08.140**	

Book Chapter

Sr. No.	Authors	Title of paper	Publisher	Year
1.	**S. Daingade and A. Sinha**	**Nonlinear cyclic pursuit based cooperative target monitoring**	**Distributed Autonomous Robotic Systems, Springer Tracts in Advanced Robotics, Vol. 104, 2014, pp 17-30**	**2014**

National Conference

Sr. No.	Authors	Title of paper	Publisher	Year
1.	**P. V. Kasambe, Sangeeta Daingade, S. S. Rathod, U. D. Kolekar**	**Optimizing the performance of control system using genetic algorithms**	**NCTCI-2007 (National conference on Emerging technologies in control & instrumentation)**	**2007**
2.	**AjayshreeWatkar, A. K. Mahaley, N. W. Kinhekar, Sangeeta Daingade**	**Digital Differential protection of Synchronous Generator Stator winding**	**National conference on Emerging Trends in Electrical, Electronics and**	**2008**

			Computer Technologies held at AKGEC	

WORKSHOP / COURSES ATTENDED

Sr. No.	Organizer	Title	Year
1.	IIT Bombay	Winter School on Optimization & Control	2014
2.	IIT Bombay	Optimization and Game Theory	2015
3.	IIT Bombay	Digital Signal Processing	2015
4.	IIT Gandhinagar	Geometry, Robotics & Control	2016
5.	RAIT Nerul	Control System Design with MATLAB	2017
6.	SPIT, Andheri	Innovative Teaching Learning Practices to Achieve Outcome Based Education and Accreditation	2018
7.	FCRIT vashi	Teaching Pedagogies for Engineering Education	2019
8.	IIT Bombay	Scientific Computing with Python for Electrical Engineers	2019
9.	IIT Bombay	Linear Algebra and its Applications to Data Analysis and Control	2019
10	NPTEL	Principles of Signals and Systems	2019
11	Delta Industry	Industrial Automation Training in Drive, Motion, Control & Robotics	13th to 17th Feb 2020
12	SPCE	Efficacy of Digital Pedagogy for Effective Online Teaching Learning	8th to 15th Oct 2020
13	University of Mumbai	ALAP Academic Leadership Alignment Program Anandshala	Jan 2023

14	SPCE	ATAL FDP on Green Energy: Challenges & Mitigation at Sardar Patel College of Engineering	Dec 2023
15	MYCA	Youth Leadership for Climate Action: Energy Management and Climate Action	March 2024
16	MYCA	Living with Climate Change and Water Management	March 2024

WORKSHOP / COURSES CONDUCTED

Sr. No.	Organizer	Title	Year
1.	EED SPCE	Basics of Matlab programming	2015
2.	EED SPCE	Basics of Matlab and Simulink	2017
3.	EED SPCE	Introduction to LATEX	2017
4.	EED SPCE	Industrial Automation	2019

ONLINE COURSES

Sr. No.	Organizer (AICTE/ Swayam / NPTEL / Coursera)	Title	Year
1.	NPTEL	Principles of Signals and Systems	2019
2.	NPTEL	Industrial Automation And Control	2020

CONFERENCE ATTENDED

Sr. No.	Organizer	Title	Year

1.	Thadomal Shahani engineering college, Mumbai	National conference on Emerging technologies in control & instrumentation	2007
2.	IISC Bangalore	second International conference on Advances in Control and Optimization of Dynamic Systems (ACODS-2012),	2012
3.	IIT Kanpur	International Conference on Intelligent Unmanned Systems (ICIUS 2013)	2013
4.	AIAA	AIAA Science and Technology Forum and Exposition	2014
5.	IIT Kanpur	Advances in Control and Optimization of Dynamical System ACODS-2014	2014
6.	BARC Mumbai	Third national symposium on advances in control and instrumentation	2014
7.	SPCE	SPICON	2022
8.	SPIT	IEE IES Day Research Conclave 2024 on Industrial Electronics, Automation and Power Electronics	2024

CONFERENCE ORGANIZED

Sr. No.	Organizer	Title	Year
1.	SPCE	SPICON	2022

EVENTS ORGANIZED

Sr. No.	Organizer	Title	Year
1.	EED and MED SPCE in collaboration with Absolute Motion Pvt Ltd.	Workshop on Industrial Automation	2019
2.	SPCE	SPICON	2022

PROJECTS GUIDED

PG Level

Sr. No.	Title of project	Year	Status (Completed/ Ongoing)
1.	Fast terminal sliding mode based DC-DC buck converter	2016	Completed
2.	Design, Mathematical Modelling, Characterization and Parametric Evaluation of Lithium-Ion Based Stationary Energy Storage System	2017	Completed
3.	Fast Trigger Generator for High Coulomb Spark Gap Switching	2017	Completed
4.	ENERGY AUDIT & DESIGN OF ROOFTOP SOLAR SYSTEM :(A CASE STUDY OF SPCE BUILDING)	2018	Completed
5.	A Simple Active and Reactive Power Control Using Electric Spring	2019	Completed
6.	Design, simulation & development Of high frequency induction heating system Powering simulated nuclear fuel cluster.	2020	Completed
7.	Ac-Dc-Ac Single-Phase Multilevel Six-Leg Converter with Reduced Number of Controlled Switches	2021	Completed
8.	Battery Charging System and Monitoring	2021	Completed
9.	Simulation and Analysis of Three Phase Grid Connected PV System Via Interleaved Boost Converter	2022	Completed
10.	SENSITIVITY ANALYSIS USING PERFORMANCE INDEX	2022	Completed

11.	SOLAR ASSISTED BATTERY MANAGEMENT SYSTEM WITH FUZZY CONTROL	2022	Completed

Ph.D. Level

Sr. No.	Title of thesis	Year	Status (Completed/ Ongoing)
1.			

SUBJECTS TAUGHT

Sr. No.	Name of subject	UG/ PG
1.	Basic Electrical Engineering	UG
2.	Electrical Networks	UG
3.	Signals and Systems	UG
4.	Numerical Techniques	UG
5.	Computer Programming	UG
6.	Electrical Machines-I	UG
7.	Power System I and II	UG
8.	Control System I and II	UG
9.	Industrial Automation	UG
10.	Modern Control Theory	UG
11.	Dynamics of Linear Systems	PG

ACHIEVEMENT

Sr. No.	Type of achievement	Year

1.		

DEPARTMENTAL AND INSTITUTIONAL RESPONSIBILITIES

Sr. No.	Type of responsibility	Department / Institute	Year
1.	Exam committee member - electrical department coordinator	Exam Section	2013-2015
2.	UG and PG Admission	Institute	2014-2017
3.	Invitee for subject board	EED	2017, 2020
4.	Teqip-III Procurement coordinator	Institute	2017
5.	IA Lab procurement	EED	2019-20
6.	R&D Committee member	Institute	2017-2022
7.	HoD Electrical	EED	April 2022-till date
8.	SPICON- Track Chair, Session Chair	Institute	Dec 2022

INDUSTRIAL TRAINING ATTENDED

Sr. No.	Organizer	Title	Year
1.	Delta	Industrial Automation Training in Drive, Motion, Control & Robotics	2020

INDUSTRIAL TRAINING ORGANIZED

Sr. No.	Organizer	Title	Year
1.			

EXPERT LECTURE CONDUCTED / ORGANIZED

Sr. No.	Organizer	Title	Year
1.	EED SPCE	MIMO Systems and State Feedback Control	2014
2.	EED SPCE	State feedback: Pole Placement Method	2016
3.	EED SPCE	Industrial Automation	2017
4.	EED SPCE	MATLAB & Simulink	2017
5.	University of Mumbai	Admission Procedures for various Academic Programs in the affiliated colleges in University of Mumbai.	2017
6.	EED SPCE	PLC and HMI	2020
7.	EED SPCE	Sequel-App for BEE and Power Electronics	2020
8.	EED SPCE	Distributed Control System	2021
9.	EED SPCE	Process & Instrumentation Diagram and Design stages in Automation Industry	2021
10.	EED, SPCE	Be the Ampions by Mr. Mukharji from Ploycab	Dec 2022
11.	EED, SPCE	Non-Linear Control Systems by Mr. Veejay Kartik from IITB	Dec 2023
12.	EED, SPCE	Discrete time Buck Converter Model in Closed Loop by Dr. R. Sawant from SPIT	March 2023
13	EED, SPCE	Semiconductor Manufacturing and Design by Dr. P. V. Kasambe from SPIT	March 2024

FUNDED RESEARCH PROJECT

Sr. No.	Funding agency	Title	Sanctioned amount	Duration with dates	Status (Completed / ongoing)
1.					

REVIEWER

Sr. No.	Title of journal / conference	Year
1.	International Symposium on Distributed Autonomous Robotic Systems (DARS - 2012)	2012
2.	Third International Conference on Advances in Control and Optimization of Dynamical Systems	2014
3.	Fifth Indian Control Conference (ICC)	2019
4.	Seventh Indian Control Conference (ICC)	2021
5.	SPICON	2022
6.	Automatica	2024

CONSULTANCY / TESTING / THIRD PARTY AUDIT

Sr. No.	Organizer	Type of consultancy	Year
1.			