Profile

Professional Summary

Exceptionally seasoned and dedicated Engineering Professor with a strong record in teaching, research and administration. Adept at explaining highly complex engineering theories and practices in a clear and accessible manner to a variety of professional and non-professional audiences. Committed to carry out value added research works for applications in the field of electrical engineering for betterment of society.

1. Personal details, Education and Experience

Name	Dr. Nimai Charan Patel		
Designation (s)	Assistant Professor (Electrical Engineering)		
Sr. No.	Designation	Department and Institute/University	Address
1	Assistant Professor	Department of Electrical Engineering, Government College of Engineering, Keonjhar, Odisha-758002, India	Department of Electrical Engineering, Government College of Engineering, Keonjhar At: Jamunalia, PO: Old Town, Dist: Keonjhar, Odisha-758002, India

Country	India							
Contact Number	91-9178684996							
Date of Birth	06	09	1975	Age on 31 Dec 2020	45	03	Sex	M
Email	Official: nimaipatel_fee@gcekjr.ac.in			Personal: ncpatel.iter@gmail.com				
Webpage	http://www.gcekjr.ac.in/departments/electrical-engineering/							

Education			
Sr. No.	Degree	Institute / University	Year & Division
1	Ph.D. (Elect. Engg.)	Utkal University, Bhubaneswar, Orissa, India	2021
2	Post-Graduation	Jadavpur University, Kolkata, West Bengal, India	2012, 1st Class
3	Graduation	Orissa Engineering College, Bhubaneswar/Biju Patnaik University of Technology (BPUT), Rourkela, Orissa, India	2004, 1st Class

Experience		*Total*	YY.MM			
Sr. No.	Designation	Organization Name with Country		From	To	Years

1	Assistant Professor	Government Colege of Engineering, Keonjhar, Odisha, India	04/08/2015	Till date	5Y 10M
2	Assistant Professor	Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India	01/08/2012	01/08/2015	3.Y
3	Lecturer	Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India	28/04/2008	31/07/2012	4Y 3M
4	Lecturer	College of Engineering Bhubaneswar (CEB), Odisha, India	05/09/2007	26/04/2008	0Y 8M
5	Project Officer	Community Polytechnic, Jharsuguda Engineering School, Jharsuguda, Odisha, India	21/07/2005	21/08/2007	2Y 1M
7	Part-time Counsellor	Indira Gandhi National Open University (IGNOU) Study Centre, Jharsuguda Engineering School, Jharsuguda, Odisha, India	Jan 2004	Jan 2006	2Y

2. Academic Activities

Academic positions handled (Such as dean, coordinator, lab in-charge, etc.)			
Sr. No.	Position	From	To
1	HOD (Electrical Engineering Department),	2016	2017
2	Technical Education Quality Improvement Program-III (TEQIP-III) Coordinator	2019	2019
3	National Board of Accreditation (NBA) Coordinator,	2018	Till date
4	Start-up Coordinator	2018	Till date
5	Induction Program Coordinator	2018	Till date
6	TEQIP-III Nodal Officer (MIS)	2019	Till date
7	Hostel Superintendent (Girls' Hostel)	2016	2016
8	Member, Institutional AICTE Committee	2015	Till date
9	Member, Anti-ragging Squad	2015	Till date
10	PIC, Remembrance Committee	2015	Till date
11	Treasure, Innovatory Electrical Society (Elect. Dept.)	2018	Till date
12	TEQIP-III Nodal Officer, Procurement	2020	Till date

Academic positions handled (Such as committee member, chair, etc.)				
Sr. No.	Position	Level with Organization Name	From	To
1	Secretary, Springer International Conference on Intelligent Computing and Applications (ICICA 2020)	International, Government College of Engineering, Keonjhar, Odisha, India	2020	2020
2	Secretary, IEEE International Conference on Computational Intelligence for Smart Power System and Sustainable Energy (CISPSSE 2020)	International, Government College of Engineering, Keonjhar, Odisha, India	2019	2020
3	Coordinator, Faculty Development Program on Applications of Different Control Techniques for Sustainable Energy	International, Government College of Engineering, Keonjhar, Odisha, India	2020	2020
4	Organiser, Advances in Mechanical Engineering (AME 2019))	National, Government College of Engineering, Keonjhar, Odisha, India	2018	2019
5	Program Chair, National Conference on Recent Advanced Trends in Electrical, Electronics and Information Technology (NCRATEEIT 2018)	National, Government College of Engineering, Keonjhar, Odisha, India	2018	2018
6	Member of Organisational Committee, Advances in Mechanical Engineering (AME 2018)	National, Government College of Engineering, Keonjhar, Odisha, India	2017	2018

Project Guided (Including current)				
Sr. No.	Year	Project Title	Level (Graduate / Postgraduate)	Noteworthy Remark if any
1	2014-15	Voltage Profile Improvement of PMSG based Energy Conversion System.	Postgraduate	M. Tech Project

Academic Events Organized (University / State / National / International level)			
Sr. No.	Year	Name of the Event	Level of Event
1	2020	Student Induction Program (SIP)	University
2	2020	Springer International Conference on Intelligent Computing and Applications (ICICA 2020)	International
3	2020	IEEE International Conference on Computational Intelligence for Smart Power System and Sustainable Energy (CISPSSE 2020)	International
4	2020	Faculty Development Program on Applications of Different Control Techniques for Sustainable Energy	International
5	2020	Boot Camp for Startup Activities	University
6	2019	Student Induction Program (SIP)	University
7	2019	Student Excellence & Learning Program (SELP)	University
8	2019	Advances in Mechanical Engineering (AME 2019)	National

9	2018	National Conference on Recent Advanced Trends in Electrical, Electronics and Information Technology (NCRATEEIT 2018)	National
10	2018	Student Induction Program (SIP)	University
11	2018	Expert Lectures Program on Engineering Application of MATLAB Programming and Modelling & Simulation of Electrical Machines and Power Electronics Converters	University
12	2018	Workshop on Outcome Based Education	University
13	2018	Advances in Mechanical Engineering (AME 2018))	National
14	2017	Short term training program on Introduction to Finite Element Method in Engineering	University
15	2017	Workshop on Internet of Things (IoT)	University

Academic Events Participated (University / State / National / International level)

Sr. No.	Date	Details of the Faculty Development Program (FDP)/Short-Term Training Program (STTP)/ Short-Term Course (STC)/Workshop/Other Training Program	Level of Event
1	8th-12th Sept. 2020	FDP on "Applications of Different Control Techniques for Sustainable Energy" at Government College of Engineering, Keonjhar, Odisha, India	International
2	15th-19th Sept. 2020	FDP on "IoT:Recent Advancements and Applications (IRAA-2020)" orgsnised by Veer Surendra Sai University of Technology (VSSUT), Burla, Odisha, India	International
3	23rd-27th Sept.2020	STC and FDP on "Power Electronics and Renewable Energy Integration in Smart Grid, Electric Vehicle (PEREISGEV 2020)" organized by NIT, Rourkela, Odisha, India	International
4	28th Sept.- 2nd Oct. 2020	Online workshop on Universal Human Value on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE), New Delhi, India	International
5	4th-8th Jan. 2021	Five-day e-workshop on "Recent Trends in Operation and Planning of Distribution System and Microgrid" Organized by National Institute of Technology Tiruchirappalli, India and The Hong Kong Polytechnic University	International
6	25th Jan. 2021- 5th Feb. 2021	STTP on Environmental Pollution Analysis and Health organised National Institute of Technical Teachers' Training and Research (NITTTR), Kolkata, Odisha, India	National
7	8th Nov. 2019	Workshop on "Intellectual Property Rights" organized by State Project Implementation Unit (SPIU), Odisha	State
8	21st-25th Oct. 2019	STC on "Mind, Meditation and Human Values-A Scientific Perspective" at IIT, Delhi, India	International
9	17th-18th Oct. 2019	Training on "Innovation Incubation Immersion Program (IIIP)" at KIIT Technology Business Incubator, Bhubaneswar, Odisha	State
10	23rd-27th Sept. 2019	One week faculty Development Program on "Soft Computing Application of Smart Grid and Clean Energy" at Government College of Engineering, Keonjhar, Odisha, India	State
11	8th April 2019	One day Training Workshop on "Web-based Academic MIS" at BVB's Sardar Patel College of Engineering, Andheri (W), Mumbai, India	National

12	12th-13th Mar. 2019	2-day Workshop on "New PMSS Software" conducted by National ProjectImplementation Unit (NPIU), Government of India in collaboration with Jadavpur University, Kolkata at Jadavpur University, Kolkata, India	National
13	11th-15th June 2018	Summer Taining Program on "Active Learning for Senior Faculty" at IIT, Kanpur, India	National
14	18th-22nd Dec 2017	Five Days Workshop on Foundation Course on "Human Values & Professional Ethics" at KDK College of Engineering, Nagpur, India	National
15	22nd Nov-5th Dec 2017	Two week FDP on "Application of Advanced Signal Processing for Operation, Control and Protection of Modern Power System with Integration of Large Scale Sustainable Energy Sources" at Indira Gandhi Institute of Technology (IGIT), Sarang, Odisha, India	National
16	31st July-4th Aug 2017	One Week Short Term/In-house Training program on "Introduction to Finite Element Method in Engineering" conducted by National Institute of Technical Tecahers' Training and Research (NITTTR), Kolkata, West Bengal, India at Government College of Engineering, Keonjhar, Odisha, India	State
17	27th Feb-3rd Mar 2017	One Week Short Term/In-house Training program on "Introduction to Artificial Neural Networks" at National Institute of Technical Tecahers' Training and Research (NITTTR), Kolkata, West Bengal, India	National
18	28th-30th Dec 2015	National Workshop on "Renewable Energy: Present Scenario & Future Challenges" at College of Engineering and Technology (CET), Bhubaneswar, Odisha, India	National
19	26th-27th Dec 2015	18th Annual State Level Faculty Convention by Indian Society for Technical Education (ISTE) and the National Seminar on "Role of Technology in Socio-Economic Development of the Nation" at College of Engineering Bhubaneswar, Odisha, India	National
20	10th-11th July 2015	National Workshop on "Integrated Vehicle Health Management (Fault Diagnosis and Prognosis of Engineering Systems)" organized by Institute of Technical Education & Research, Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha, India	National
21	5th-10th May 2014	STTP in "Matlab Tool Box & Its Application to Intelligent Optimisation Techniques" organized by the Department of Electrical and Electronics Engineering, Silicon Institute of Technology, Bhubaneswar, Odisha, India	National
22	23rd-27th Dec 2013	Refresher Course on "Power Electronics, Drives and Power Quality Issues" organized by the Department of Electrical Engineering at NIT, Rourkela, Odisha, India	National
23	7th-8th March 2006	District Level Training of Trainers-Sensitizing SGSY Implementers sponsored by MORD, Govt. of India and organized by ORMAS, Bhubaneswar at DRDA Conference Hall, Jharsuguda	State
24	22nd Nov-31st Dec 1994	Entrepreneurship Development Programme sponsored by Department of Science & Technology, Govt. of India, IDBI, IFCI and ICICIand organized by School for Entrepreneurship Development & Management Sciences, NIT (formerly known as REC), Rourkela at Jharsuguda, Odisha, India	State
25	20th-27th Jan 1994	One week Entrepreneurship Development Programme (EDP) conducted by the Institute of Entrepreneurship Development, Odisha (IEDO), Bhubaneswar in	State

		association with District Industries Centre (DIC), Sambalpur at Jharsuguda, Odisha, India	

Novel Academic Development (Course / Course Materials / Innovative teaching methods)			
Sr. No.	Year	Title of development	Impact of novel development
1	2020	e-content on the subject of "Basic Electrical Engineering" developed and uploaded in the college website.	Convenient learning by the student, self-pacing facility to every learner, reduced learning time, quick accessibility, useful guidance for the learners in this pandemic situation of COVID and can be accesed by any learner across the globe.

3. Research and Innovation Activities

Publication summary									
ORCID ID	[0000-0001-9814-6929](0000-0001-9814-6929)				**SCOPUS ID**		[55839842200](55839842200)		
ResearchGate Link	https://www.researchgate.net/profile/Nc-Patel								
Google Scholar Link	https://scholar.google.com/citations?user=rNHk9bIAAAAJ&hl=en								
Platform	Journal	Conference	Books	Chapters	Editorial	Other	Total	H Index	H Index (Excluding Self Citations)
Web of Science	6	20		05				2	2
Scopus	5	20		05				4	4
Research Gate	6	20		05				3	2
Google Scholar	6	20		05				5	4

Publication Details		
Journal Publication		
Sr. No.	Publication Details	ISSN No.	Indexing/ Impact Factor
1	Patel NC, Sahu BK, Bagarty DP, Das P, Debnath MK. A novel application of ALO-based fractional order fuzzy PID controller for AGC of power system with diverse sources of generation. The International Journal of Electrical Engineering & Education. 2021 Apr;58(2):465-487.	Online ISSN: 2050-4578	2018 SCIE Indexed. Impact Factor: 0.941
2	Jena NK, Patel NC, Sahoo S, Sahu BK, Dash SS, Bayindir R. Application of fractional order cascaded controller for AGC study in power system integrated with renewable sources. International Journal of Renewable Energy Research (IJRER). 2020 Mar 25;10(1):89-100.	Online ISSN: 1309-0127	Scopus, ESCI
3	Patel NC, Sahu BK, Debnath MK. Automatic generation control analysis of power system with nonlinearities and electric vehicle aggregators with time-varying	E-ISSN: 1303-6203	SCIE

Sr. No.	Publication Details	Electronic ISBN/ISSN No.	Indexing
	delay implementing a novel control strategy. Turkish Journal of Electrical Engineering & Computer Sciences. 2019 Jul 26;27(4):3040-3054.		Impact Factor: 0.625
4	Patel NC, Debnath MK, Sahu BK, Dash SS, Bayindir R. Application of invasive weed optimization algorithm to optimally design multi-staged PID controller for LFC analysis. International Journal of Renewable Energy Research (IJRER). 2019 Mar;9(1):470-479.	Online ISSN: 1309-0127	Scopus, ESCI
5	Patel NC, Debnath MK, Bagarty DP, Das P. GWO tuned multi degree of freedom PID controller for load frequency control. International Journal of Engineering & Technology. 2018;7(2.33):548-552.	ISSN: 2227-524X	Scopus
6	Patel NC, Debnath MK, Bagarty DP, Das P. Analysis Of A Multi-Unit Hydrothermal System For Automatic Generation Control Using Fuzzy Logic Controller Integrated With PID Controller. International Journal of Pure and Applied Mathematics. 2017;114(9):335-345.	Online ISSN 1314-3395	

IEEE Conference Publication

Sr. No.	Publication Details	Electronic ISBN/ISSN No.	Indexing
1	Sahoo BK, Pradhan S, Panigrahi BK, Biswal B, Patel NC, Das S. Fault detection in Electrical Power Transmission System using Artificial Neural Network. In2020 International Conference on Computational Intelligence for Smart Power System and Sustainable Energy (CISPSSE), Keonjhar, Odisha, India, 2020 Jul 29 (pp. 1-4). IEEE.	ISBN: 978-1-7281-7274-3	Scopus
2	Satapathy P, Sahu J, Patel NC, Debnath MK, Mohanty PK, Padhi JR. Design and implementation of EVDEPSO based IDN-FPI controller for AGC in interconnected non-reheat thermal power system. In2020 International Conference on Computational Intelligence for Smart Power System and Sustainable Energy (CISPSSE), Keonjhar, Odisha, India, 2020 Jul 29 (pp. 1-7). IEEE.	ISBN: 978-1-7281-7274-3	Scopus
3	Mohapatra S, Sahu PC, Agrawal R, Prusty RC, Patel NC. Superiority of JAYA Optimized 2DOF-IDD control strategy for AGC of hybrid power system. In2020 International Conference on Computational Intelligence for Smart Power System and Sustainable Energy (CISPSSE), Keonjhar, Odisha, India, 2020 Jul 29 (pp. 1-6). IEEE.	ISBN: 978-1-7281-7274-3	Scopus
4	Patel NC, Agrawal R, Pradhan P, Satapathy S, Ahmed I, Debnath MK. Two-staged (PDF+ 1PI) Controller Design for Load Frequency Control. In2020 International Conference on Computational Intelligence for Smart Power System and Sustainable Energy (CISPSSE), Keonjhar, Odisha, India, 2020 Jul 29 (pp. 1-6). IEEE.	ISBN: 978-1-7281-7274-3	Scopus

5	Jena NK, Sahoo S, Sahu BK, Patel NC, Mohanty KB. Optimal design of a three degrees of freedom based controller for AGC of a power system with renewable energy sources. In2020 International Conference on Computational Intelligence for Smart Power System and Sustainable Energy (CISPSSE), Keonjhar, Odisha, India, 2020 Jul 29 (pp. 1-6). IEEE.	ISBN: 978-1-7281-7274-3	Scopus
6	Begum B, Jena NK, Sahoo S, Patel NC, Sahu BK. Optimal design and implementation of fuzzy logic based controllers for LFC study in power system incorporated with wind firms. In2020 International Conference on Computational Intelligence for Smart Power System and Sustainable Energy (CISPSSE), Keonjhar, Odisha, India, 2020 Jul 29 (pp. 1-6). IEEE.	ISBN: 978-1-7281-7274-3	Scopus
7	Sahu PC, Mohapatra S, Acharya S, Patel NC. Frequency regulation of an Islanded AC micro grid with DFA designed fuzzy controller under various uncertainties. In2020 International Conference on Computational Intelligence for Smart Power System and Sustainable Energy (CISPSSE), Keonjhar, Odisha, India, 2020 Jul 29 (pp. 1-5). IEEE.	ISBN: 978-1-7281-7274-3	Scopus
8	Sahoo S, Dash SS, Jena NK, Sahu BK, Patel NC, Bayindir R. SHO designed fuzzy logic based controller for AGC study with capacitor energy storage. In2019 8th International Conference on Renewable Energy Research and Applications (ICRERA), Brasov, Romania, 2019 Nov 3 (pp. 845-850. IEEE.	ISBN: 978-1-7281-3587-8 ISSN: 2572-6013	Scopus
9	Jena NK, Patel NC, Sahoo S, Sahu BK, Dash SS, Mohanty KB, Bayindir R. Novel application of Selfish Herd Optimisation based Two Degrees of Freedom Cascaded Controller for AGC Study. In2019 8th International Conference on Renewable Energy Research and Applications (ICRERA),) Brasov, Romania, 2019 Nov 3 (pp. 851-856). IEEE.	ISBN: 978-1-7281-3587-8 ISSN: 2572-6013	Scopus
10	Debnath MK, Patel NC, Choudhury S. Load Frequency Control Based on Non-Integer Type PID Controller Tuned by WOA. In2018 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, India, 2018 Oct 22 (pp. 114-119). IEEE.	ISBN: 978-1-5386-6625-8	Scopus
11	Patel NC, Debnath MK, Sahu BK, Dash SS, Bayindir R. Multi-staged PID controller tuned by invasive weed optimization algorithm for LFC issues. In2018 7th International Conference on Renewable Energy Research and Applications (ICRERA), Paris, France, 2018 Oct 14 (pp. 1358-1362). IEEE.	ISBN:978-1-5386-5982-3 ISSN: 2377-6897	Scopus
12	Satapathy P, Debnath MK, Patel NC, Tripathy S. Fractional Calculus Based PID Controller Tuned by SMO for LFC Application. In2018 8th IEEE India International Conference on Power Electronics (IICPE), Jaipur, India, 2018 Dec 13 (pp. 1-6). IEEE.	ISBN: 978-1-5386-4996-1 ISSN: 2160-3170	Scopus

13	Sahoo S, Dei G, Patel NC, Sahu BK. Application of SOS based PDPID Cascaded Controller with Double Derivative Filter for AGC of Interconnected Power System. In2018 International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering (ICRIEECE), Bhubaneswar, India, 2018 Jul 27 (pp. 602-606). IEEE.	ISBN: 978-1-5386-5995-3	Scopus
14	Satapathy P, Debnath MK, Patel NC, Mohanty PK. Load Frequency Control with PDPID Controller Including Double Derivative Filter. In2018 International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering (ICRIEECE), Bhubaneswar, India, 2018 Jul 27 (pp. 240-245). IEEE.	ISBN: 978-1-5386-5995-3	Scopus
15	Patel NC, Debnath MK, Sahu BK, Das P. Solution of LFC Problem using PD+ PI Double Loop Controller Tuned by SCA. In2018 International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering (ICRIEECE), Bhubaneswar, India, 2018 Jul 27 (pp. 337-342). IEEE.	ISBN: 978-1-5386-5995-3	Scopus
16	Patel NC, Debnath MK, Bagarty DP, Das P. Load frequency control of a non-linear power system with optimal PID controller with derivative filter. In2017 IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI), Chennai, India, 2017 Sep 21 (pp. 1515-1520). IEEE.	ISBN: 978-1-5386-0814-2	Scopus
17	Debnath MK, Patel NC, Mallick RK. Automatic Generation Control of a two area multi-unit interconnected power system with Proportional-Integral-Derivative controller with Filter (PIDF) optimized by TLBO algorithm. In2016 International Conference on Circuit, Power and Computing Technologies (ICCPCT), Nagercoil, India, 2016 Mar 18 (pp. 1-6). IEEE.	ISBN: 978-1-5090-1277-0	Scopus
18	Debnath MK, Patel NC, Mallick RK. Optimal PD-PID cascaded controller based Automatic Generation Control of a multisource interconnected power system tuned by Teaching Learning Based Optimization. In2016 7th International Conference on Power Electronics (IICPE), Patiala, India, 2016 Nov 16. IEEE	ISBN: 978-1-5090-4530-3	Scopus
19	Pati S, Samantray S, Patel NC. A novel adaptive fuzzy controller for performance improvement of direct torque controlled induction generator employed for wind power applications. In2013 Annual International Conference on Emerging Research Areas and 2013 International Conference on Microelectronics, Communications and Renewable Energy, Kanjirapally, India, 2013 Jun 4 (pp. 1-6). IEEE.	ISBN: 978-1-4673-5149-2	Scopus
20	Pati S, Samantray S, Patel NC. A sliding mode controller based DTC scheme for performance improvement of cage induction generator used for wind power applications. In2013 Annual International Conference on Emerging Research Areas and 2013 International Conference on Microelectronics, Communications and Renewable Energy, Kanjirapally, India, 2013 Jun 4 (pp. 1-6). IEEE.	ISBN: 978-1-4673-5149-2	Scopus
	Book Chapters in Springer Book Series		

Sr. No.	Publication Details	Electronic ISBN/ISSN No.	Indexing
1	Mohanty NP, Dey R, Roy BK, Patel NC. Synchronization for Nonlinear Time-Delay Chaotic Diabetes Mellitus System via State Feedback Control Strategy. In Intelligent Computing and Applications 2021 (pp. 769-779). Springer, Singapore. (Proceedings of ICICA 2019)	ISBN:978-981-15-5566-4, ISSN: 2194-5357	Scopus
2	Patel NC, Debnath MK, Sahu BK, Dash SS. Automatic Generation Control Using Novel PD Plus FOPI Controller Tuned by Salp Swarm Algorithm. In Artificial Intelligence and Evolutionary Computations in Engineering Systems 2020 (pp. 1-13). Springer, Singapore. (AISC Series)	ISBN:978-981-15-0199-9, ISSN: 2194-5357	Scopus
3	Patel NC, Sahu BK, Debnath MK. Application of SCA-Based two degrees of freedom PID controller for AGC study. In Computational Intelligence in Pattern Recognition 2020 (pp. 969-980). Springer, Singapore. (Proceedings of CIPR 2019). (AISC Series)	ISBN: 978-981-13-9042-5 ISSN: 2194-5357	Scopus
4	Patel NC, Debnath MK. Whale optimization algorithm tuned fuzzy integrated PI controller for LFC problem in thermal-hydro-wind interconnected system. In Applications of Computing, Automation and Wireless Systems in Electrical Engineering 2019 (pp. 67-77). Springer, Singapore. (Proceedings of MARC 2018). LNEE Series	ISBN: 978-981-13-6772-4 ISSN: 1876-1100	Scopus
5	Patel NC, Debnath MK, Sahu BK, Das P. 2DOF-PID controller-based load frequency control of linear/nonlinear unified power system. In International Conference on Intelligent Computing and Applications 2019 (pp. 227-236). Springer, Singapore. (Proceedings of ICICA 2018). (AISC Series)	ISBN: 978-981-13-2182-5 ISSN: 2194-5357	Scopus
	Paper Presentation in Springer/IEEE International Conference and National Conference		
Sr. No.	Conference Details and Paper Title	Date	Level of Event
1.	Springer International Conference on Intelligent Computing and Applications (ICICA 2020) organized by Government College of Engineering, Keonjhar, Odisha, India Paper Title: Implementation of TLBO optimized $PI^{\lambda}D^{\mu}$ Controller for LFC of Nonlinear Reheat Thermal Power System	22nd-23rd Dec 2020	International
2	1st Springer International Conference on Intelligent Computing and Applications (ICICA 2020) organized by Government College of Engineering, Keonjhar, Odisha, India	22nd-23rd Dec 2020	International

	Paper Title: TLBO designed 2-DOFPIDF Controller for LFC of Multi-area Multi-source Power System		
3	Springer International Conference on Computational Intelligence and Pattern Recognition (CIPR 2019) organized by Indian Institute of Engineering Science and Technolgy (IIEST), Shibpur, West Bengal, India Paper Title: Application of SCA based two-degree-of-freedom PID controller for AGC study	19th-20th Jan 2019	International
4	8th IEEE International Conference on Renewable Energy Research and Applications (ICRERA 2019) held at Transilvania University of Brasov, Brasov, Romania Paper Title: Novel Application of Selfish Herd Optimisation Based Two Degrees of Freedom Cascaded Controller for AGC Study	3rd-6th Nov 2019	International
5	8th IEEE International Conference on Power Electronics (IICPE) held at Malaviya National Institute of Technology (MNIT), Jaipur, Rajasthan, India Paper Title: Fractional Calculus Based PID Controller tuned by SMO for LFC Application	13th-15th Dec 2018	International
6	National Conference on Recent Advanced Trends in Electrical, Electronics and Information Technology (NCRATEEIT 2018) at Government College of Engineering, Keonjhar, Odisha, India Paper Title: A study of Two Level and Three Level H-Bridge Inverter with Photovoltaic System	29th-30th Oct 2018	National
7	National Conference on Recent Advanced Trends in Electrical, Electronics and Information Technology (NCRATEEIT 2018) at Government College of Engineering, Keonjhar, Odisha, India Paper Title: AGC Investigation in Hybrid Power System with JAYA Algorithm Tuned PD-FOPID Controller	29th-30th Oct 2018	National
8	2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES 2018) organized by Delhi Technological University (DTU), Delhi, India Paper Title: Load Frequency Control Based on Non-Integer Type PID Controller Tuned by WOA.	22nd-24th Oct 2018	International
9	IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering (ICRIEECE 2018) at Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, Odisha, India Paper Title: Load Frequency Control with PDPID Controller Including Double Derivative Filter	27th-28th July 2018	International
10	IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering (ICRIEECE 2018) at Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, Odisha, India Paper Title: Solution of LFC Problem using PD+PI Double Loop Controller Tuned by SCA	27th-28th July 2018	International

11	IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering (ICRIEECE 2018) at Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, Odisha, India Paper Title: Application of SOS Based PDPID Cascaded Controller with Double Derivative Filter for AGC of Interconnected Power System	27th-28th July 2018	International
12	Springer International Conference on Manufacturing, Advance Computing, Renewable Energy and Communication (MARC 2018) organized by HMR Institute of Technology and Management (HMRITM), New Delhi Paper Title: Whale Optimisation Algorithm Tuned Fuzzy Integrated PI Controllerfor LFC Problem in Thermal-Hydro-Wind Interconnected System	19th-20th July 2018	International
13	Springer International Conference on Soft Computing System (ICSCS 2018) organized by Baselios Mathews II College of Engineering (BMCE), Kollam, Kerala, India Paper Title: GWO Tuned Multi Degree of Freedom PID Controller for Lad Frequency Control	19th April 2018	International

Research Workshop or Conference Organized (National / International level) (As a key role)			
Sr. No.	Year	Name of the Research Event	Level of Event	Role
1	2020	Springer International Conference on Intelligent Computing and Applications (ICICA 2020)	International level	Secretary
2	2020	IEEE International Conference on Computational Intelligence for Smart Power System and Sustainable Energy (CISPSSE 2020)	International level	Secretary
3	2020	Faculty Development Program on Applications of Different Control Techniques for Sustainable Energy	International level	Coordinator
4	2019	Advances in Mechanical Engineering (AME 2019))	National level	Organiser
5	2018	National Conference on Recent Advanced Trends in Electrical, Electronics and Information Technology (NCRATEEIT 2018)	National level	Program Chair
6	2018	Advances in Mechanical Engineering (AME 2018)	National level	Member of Organisational Committee

4. Interaction with Outside World

Membership and Fellowship (Technical national and international societies / associations / organizations)

Sr. No.	Name of the society with country	Membership type	From – to	Noteworthy Remark if any
1	IEEE	Member	2019-2021	

Journal Reviewer

Sr. No.	Journal Name with ISSN	from – to	Papers reviewed	SCOPUS/SCI	Journal link
1	International Transactions On Electrical Energy Systems Online ISSN:2050-7038 (https://publons.com/researcher/1576037/nimai-charan-patel/)	2020-2021	4	SCIE	https://onlinelibrary.wiley.com/journal/20507038
2	International Journal of Electrical Engineering Education ISSN: 0020-7209 Online ISSN: 2050-4578 (https://publons.com/researcher/1576037/nimai-charan-patel/)	2018-2021	7	2018 SCIE indexed	https://journals.sagepub.com/home/ije
3	International Journal of Ambient Energy Print ISSN: 0143-0750 Online ISSN: 2162-8246 (https://publons.com/researcher/1576037/nimai-charan-patel/)	2019-2021	2	Scopus and ESCI	https://www.tandfonline.com/toc/taen20/current
4	Applied Energy ISSN: 0306-2619	2021	1	SCIE	https://www.journals.elsevier.com/applied-energy

Keynote / Invited Speeches (Only International Event / Conferences)

Sr. No.	Name of the Event	Organizer, Country	Event dates	Title of Speech
1	Faculty Development Program on "Soft Computing Application of Smart Grid and Clean Energy"	Government College of Engineering, Keonjhar, Odisha, India	23.09.2019 to 27.09.2019	Optimal Design and Implementation of Fuzzy Logic Based Controller in Electrical Power System

Session Chair / Topic Organizer (Only International Event / Conferences)				
Sr. No.	Name of the Event	Organizer, Country	Event dates	Title of Session / Topic
1	International Conference On Computational Intelligence For Smart Power System And Sustainable Energy, (CISPSSE 2020)	Government College of Engineering, Keonjhar, Odisha, India	30.07.2020	Power Quality,
2	International Conference On Computational Intelligence For Smart Power System And Sustainable Energy, (CISPSSE 2020)	Government College of Engineering, Keonjhar, Odisha, India	31.07.2020	Application of Soft Computing to Power System Problems
3	International Conference on Intelligent Computing and Applications (ICICA 2020)	Government College of Engineering, Keonjhar, Odisha, India	23.12.2020	Computational Intelligence and Algorithms