



Mr. Biresh Kumar Dakua, (Ph.D. Contd.)

Name : Biresh Kumar Dakua
Designation : Assistant Professor
Department : Department of Electrical Engineering
(Joined The Institute In 28TH August 2019)
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ACADEMIC QUALIFICATIONS:

- ✓ Ph.D. (Continuing), Department of Electrical Engineering, Veer Surendra Sai University of Technology, Odisha, India.
- ✓ M-Tech, Power Electronics Control & Drives, Department of Electrical Engineering, Veer Surendra Sai University of Technology, Odisha, India.
- ✓ B-Tech, Electrical & Electronics Engineering, Biju Patnaik University of Technology, Odisha, India.

RESEARCH INTERESTS:

- ✓ Linear & Nonlinear Control Systems
- ✓ Fractional Order Systems & Control
- ✓ System Identification

TEACHING/INDUSTRY/RESEARCH EXPERIENCE:

- ✓ 8 Yrs. of Teaching Experience.

PUBLICATIONS

JOURNAL & CONFERENCES:

- [1].K. C. Patra & **B. K. Dakua**, "Investigation of Limit Cycles and Signal Stabilization of Two-Dimensional Systems with Memory Type Nonlinear Elements", Archives of Control Sciences, vol. 28(LXIV), No-2, pp. 285-330, 2018.
- [2].**B. K. Dakua** and B. B. Pati : Prediction and Suppression of Limit Cycle Oscillations for a Plant with Time Delay and Backlash Nonlinearity, 2020 IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security (iSSSC), IEEE, GIET University, Gunupur, 16th-17th December 2020, pp. 1-5, February, 2021 DOI : 10.1109/iSSSC50941.2020.9358900.

- [3]. **B. K. Dakua** and B. B. Pati : Computation of Limit Cycle in a Nonlinear Fractional-Order Plant with Time Delay, 2021 1st Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON), IEEE, SOA University, Bhubaneswar, 08-09 January 2021, pp. 1-6, May, 2021 DOI : 10.1109/ODICON50556.2021.9428950.
- [4]. **B. K. Dakua** and B. B. Pati : PI^λ - PD^μ Controller for Suppression of Limit Cycle in Fractional-Order Time Delay Systems with Nonlinearities, 2021 1st Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON), IEEE, SOA University, Bhubaneswar, 08-09 January 2021, pp. 1-6, May, 2021 DOI : 10.1109/ODICON50556.2021.9428971.

ANY OTHER

WORKSHOPS/FDPS/SEMINARS ATTENDED:

- [1]. NaMPET sponsored short term training program on "Power Electronics Systems and Applications" organized by Department of EE NIT Rourkela from 04-06 April 2014.
- [2]. 2-Week ISTE Workshop on "Control Systems" Organized by IIT Kharagpur, 02-12 December 2014.
- [3]. 1-Week FDP on "Emerging Trends and Challenges in Electric Power System" Organized by Dept of EE, CVRCE Bhubaneswar, 18-23 May 2015.
- [4]. QIP sponsored 1-Week STTP on "Modeling and Simulation of Hybrid Power Generation System" Organized by Dept of EE, VSSUT Burla, 14-19 December 2015.
- [5]. NITTR Chandigarh coordinated 1-Week Short Term Course on "Thrust Areas of Research in Engineering & Science Through ICT" Organized by Dept of EE, CVRCE Bhubaneswar, 25-29 April 2016.
- [6]. 1-Week FDP on "Present and Future Technologies in Electric Power and Energy Systems" Organized by Dept of EE, CVRCE Bhubaneswar, 23-28 May 2016.
- [7]. NITTR Chandigarh coordinated 1-Week Short Term Course on "FACTS Devices and Distributed Generation Through ICT" Organized by Dept of EE, CVRCE Bhubaneswar, 06-10 February 2017.
- [8]. 1-Week STTP through ICT mode on "Measurement and Control For Industrial Automation" Organized by Dept of EE, CVRCE Bhubaneswar, 11-16 December 2017.
- [9]. 2-Week "Vertical Integration Course for Trainers" approved by Directorate General of Shipping, 04-15 March 2019.
- [10]. 1-Week FDP on "Emerging Trends and Developments in Power Electronics Application to Power System" Organized by CVRCE Bhubaneswar, 11-15 March 2019.
- [11]. AICTE sponsored short term training program on "Applications of Soft Computing in Power System" organized by Department of EE & EEE VSSUT, Burla from 02-07 December 2019.

- [12]. TEQIP-III sponsored 2-Days online Workshop on “Advancement of Optimization Techniques in Electrical Engineering Applications” Organized by Dept. Of EE, VSSUT. 14-15 September 2020.
- [13]. AICTE (ATAL) Academy sponsored 5-Days online FDP “Control System and Sensor Technology” Organized by IIIT Nagpur, 21-25 September 2020.
- [14]. AICTE sponsored 2-Weeks online FDP on “Robust and Nonlinear System Dynamics and Control” Organized by Dept. of EE, VSSUT. 12-23 December 2020.
- [15]. 2-Days Webinar on “Energy Efficient Distribution Systems (EEDS-2021)” Organized by Dept. of EEE, SIT Bhubaneswar, 08-09 January 2021.
- [16]. BPUT TEQIP-III sponsored 3-Days STTP on “Essential Tools and Techniques in Research Methodology” Organized by Dept. of ECE, SIT Sambalpur, 11-13 February 2021.
- [17]. TEQIP-III sponsored 5-Days online FDP on “Power Quality Issues and Energy Management in a Grid Integrated with Renewable Sources” Organized by Dept. Of EE, EATM Bhubaneswar, 24-28 February 2021.
- [18]. 5-Days STTP on “Application of Advance Control Techniques in Power Electronics and Power Technology” Organized by Dept of EEE, SIT Bhubaneswar, 05-09 April 2021.
- [19]. AICTE sponsored 1-week online FDP on “Real Time Simulation : Roadmap for RE Grid Integration in Microgrid and Smart grid”, organized by NITTR Chandigarh, 28 June-02 July 2021.

WORKSHOPS/FDPS/SEMINARS ORGANISED:

- [1].Organized a 4-days e-FDP on “Role of Artificial Intelligence in Future Microgrid Control” 17-20 June 2020, SIT Sambalpur.
- [2].2-Day online workshop on “Advanced MATLAB Tools and SIMULINK in Power System Applications” AMTSPSA-2021 on 26-27 July 2021, SIT Sambalpur.

JOURNALS/CONFERENCE/BOOK CHAPTER REVIEW:

- [1].3rd International Conference on Energy, Power, and Environment (ICEPE 2020), IEEE Conference organized by Dept of EE, NIT Meghalaya, Shilong, India 05-07 March 2021. (2 papers)
- [2].7th International Conference on Electronics, Computer and Communication Technology, (IEEE Connect 2021) Organized by IEEE Bangalore Section on 09-11 July 2021. (1 paper)
- [3].1st International symposium on Sustainable Energy and Technological Advancements (ISSETA 2021), (Springer) organized by Dept of EE, NIT Meghalaya, Shilong, India on 24-25 September 2021. (2 papers)

AWARD/ACHIVEMENT:

[1].IEEE paper presentation and best paper award (IEEE-2021) - 1st Odisha International Conference on 'Electrical Power Engineering, Communication and Computing Technology (ODICON) 2021'- 08.01.2021 to 09.01.2021.

LINK:

[1].Google Scholar :

https://scholar.google.com/citations?user=MKr_UJUAAAAJ&hl=en&authuser=1

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