



Mrs. Nivedita Pati, M.Tech

Name : Nivedita Pati

Designation : Asst. Professor

Department : Department of Electrical & Electronics Engg. (
JOINED THE INSTITUTE IN 2012)

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RESEARCH INTERESTS

Control Systems and its applications

- ✓ Application of linear and non-linear controllers in power electronics
- ✓ Modern and classical control design for various converter topologies
- ✓ Control applications for Renewable Energy system.

Academic Qualifications

PhD(continuing),KIIT University,India

M. Tech (Electrical Engg.) NIT, RKL,India

Specialization: Control & Automation

Teaching Experience/ Industrial Experience/ Research Experience

- ✓ Worked as lecturer in PIET, Rourkela from Jan 2006 to Jan 2010
- ✓ Worked as Sr.lecturer in PIET, Rourkela from Jan 2010 to July 2012

PUBLICATIONS

JOURNAL & CONFERENCES

- [1] Nivedita Pati ; Nibedita Swain, " Design of study of speed control of dc motor using youla parameterization"2017 IEEE Calcutta Conference (CALCON) Year: 2017 Page s: 433 – 437
- [2] Nibedita Swain,C.K. Panigrahi, Nivedita Pati, "Comparative Performance Analysis of dc-dc Converter using PI controller and fuzzy logic controller", 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES),Year: 2016,Page s: 1 – 5.

- [3] **Nivedita Pati**, Nibedita Swain, "Application of h-infinity controller to Boost Converter using Model Order Reduction Technique", 2015 Annual IEEE India Conference (INDICON),Year: 2015,Page s: 1 - 6
- [4] **Nivedita Pati**, " A comparative study of youla and PID control algorithms for regulation of output voltage of Buck converter", 2014 IEEE 2nd International Conference on Electrical Energy Systems (ICEES)Year: 2014,Page s: 267 - 271.
- [5] *Nibedita Swain* and **Nivedita Pati**, "Solar Powered Buck Converter with PID controller", International Journal of Advances in Electrical and Electronics Engineering, ISSN: 2319-1112 /V4-N3-ICAESM: 137-142 @IJAEED.
- [6]] **Nivedita Pati**, " Comparative Performance Analysis of Sliding Mode and Q-Controller Algorithms for Buck Converter", IOP Conf. Series: Materials Science and Engineering 225 (2017) 012135 doi:10.1088/1757-899X/225/1/012135.
- [7] **Nivedita Pati**, "Performance Analysis of PV Fed Boost Converter Using a Linear and Non-linear Control Approach: PI and Sliding Mode Control", IEEE International conference on recent innovations in electrical, electronics & communication engineering - (ICRIEECE),2018.
- [8] *Dr. Nibedita Swain*, **Nivedita Pati**, " Comparative Study of Model Reference Adaptive Control and H-infinity control to Non-Isolated Boost Converter "UPCON-2018.
- [9] **Babita Panda**, **Nivedita pati**, **Bhagabat Panda**, " Hardware implementation of PV Z source inverter using maximum boost control method", 3rd International Conference on Smart Computing and Informatics, Springer,Nov 2019
- [10]**Nivedita Pati**, **B.Panda**, **Bhagbat Panda**, " Stability analysis of photovoltaic cell under grid faults", International Journal of power electronics and drives systems(IJPEDS), Vol. 11,No.2,pp 931-941.
- [12] **Nivedita Pati** , **Babita Panda**, **Bhagabat Panda**, " Sensitivity Analysis of PI And Youla Controller For A PV Fed Boost Converter", International Conference on Advances in Electrical Control and Signal Systems,July 2020

BOOK CHAPTERS

- [1]*Nibedita Swain*, **Nivedita Pati**, " Design of linear and non linear controllers for grid connected PV system for constant voltage application", Microgrid: Operation, Control , Monitoring and Protection, Springer, Chapter 5, pp. 149-179,Jan 2020

ANY OTHER

Membership of
Professional Societies

- √ IEEE
- √ ISTE