

Publications

➤ International Journals:

- [1] Vivek Patel, Dipayan Guha, Shubhi Purwar, "Disturbance Observer-based Higher-order Sliding Mode Controller for Frequency Regulation of Hybrid Power Systems", Accepted for publication in *Int. J. of Automation and Control*, 2022.
- [2] Vivek Patel, Dipayan Guha, Shubhi Purwar, "Neural Network aided Fractional-Order Sliding Mode Controller for Frequency Regulation of Nonlinear Power Systems", *Computers and Electrical Engineering*, Volume 96, 2021.
- [3] Aradhna Patel and Shubhi Purwar, "Event Triggered Detection of Cyber Attacks on Load Frequency Control", *IET Cyber-Physical Systems: Theory & Applications*, Volume 5, Issue 3, pp. 263 – 273, 2020.
- [4] Satya Prakash, Shubhi Purwar & Soumya R. Mohanty, "Adaptive Detection of Islanding and Power Quality Disturbances in a Grid-Integrated Photovoltaic System", *Arabian Journal for Science and Engineering*, 45, pp. 6297–6310, 2020.
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- [6] S. Singh and S. Purwar, "Enhanced Composite Nonlinear Control Technique using Adaptive Control for Nonlinear Delayed Systems", *Recent Advances in Electrical & Electronic Engineering*, 2019.
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- [17] Sheetla Prasad, Shubhi Purwar, and Nand Kishor, “H-infinity based non-linear sliding mode controller for frequency regulation in interconnected power systems with constant and time-varying delays”, *IET Generation Transmission and Distribution*, vol. 10, no. 1, pp. 2771-2784, 2016.
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➤ **Book Chapters:**

A. Patel and S. Purwar, Event-Triggered Sliding Mode Controller Design for Interconnected Power System, Lecture Notes in Electrical Engineering, Springer India, Volume 822, 2022, pp 65-78.

V. Patel, D. Guha, and S. Purwar, Minimum order disturbance observer-aided integral sliding mode controller for frequency regulation of hybrid power system, Control of Standalone Microgrid, Academic Press (Elsevier), Chapter 12, 2021, pp. 277-296.

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