

Publications

International Journals:

- S. Yadav, N. Kishor, S. Purwar, S. Chakrabarti, P. Raussi and A. Kumar, "Real-time Implementation for Vulnerability of Power Components under Switching Attack Based on Sliding Mode", IET Cyber-Physical Systems: Theory& Applications- Accepted
- Ankit Sachan, Sonali Singh, Shubhi Purwar, Jitendra Kumar Goyal, "Supervisory-based Quantized Hands-off Control for a Class of Uncertain Systems with Nonlinear Sector", International Journal of Systems Science- Accepted
- V. Patel, D. Guha, and S. Purwar, Frequency Regulation of Time-delayed Power System utilizing Nonlinear Resilient Controller, accepted for publication in International Journal of Automation and Control
- Aradhna Patel and Shubhi Purwar, Design of Event Trigger based Multirate Sliding Mode Load Frequency Controller for Interconnected Power System, ISA Transactions, 2022
- V. Patel, D. Guha, and S. Purwar, Frequency Regulation of Nonlinear Power Systems using Neural Network Observer-based Optimized Resilient Controller, International Transactions on Electrical Energy Systems, Wiley, 2022
- V. Patel, D. Guha, and S. Purwar, Optimized cascade fractional-order 3DOF-controller for frequency regulation of a hybrid power system using marine predators algorithm, International Journal of Numerical Modelling: Electronic Networks, Devices And Fields, Wiley, 2022
- Aradhna Patel and Shubhi Purwar, Novel Resilient Compensator design for FDI attack mitigation on AGC System, International Journal of Modelling and Simulation, Taylor Francis, 2022
- Vivek Patel, Dipayan Guha, Shubhi Purwar, "Disturbance Observer-based Higher-order Sliding Mode Controller for Frequency Regulation of Hybrid Power Systems", International Journal of Automation and Control, 2022
- 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
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- 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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- S. K. Mishra, S. Purwar and N. Kishor, "Event-Triggered Nonlinear Control of OWC Ocean Wave Energy Plant," IEEE Transactions on Sustainable Energy, vol. 9, no. 4, pp. 1750-1760, 2018
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- Bhanu Pratap and Shubhi Purwar, Real-Time Implementation of Nonlinear State and Disturbance Observer Based Controller for Twin Rotor Control System", International Journal of Automation and Control, 2018
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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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