

LIST OF PUBLICATIONS

Faculty: Dr Shubh Lakshmi

Department of Electrical and Electronics Engineering

JOURNAL PUBLICATIONS

Shubh Lakshmi and Sanjib Ganguly, “Coordinated operational optimization approach for PV inverters and BESSs to minimize the energy loss of distribution networks”, *IEEE Systems Journal* (Early Access), vol. 16, no. 1, pp. 1228 – 1238, 2022, December 2020. DOI: 10.1109/JSYST.2020.3041787

An On-line Operational Optimization Approach for Open Unified Power Quality Conditioner for Energy Loss Minimization of Distribution Networks- **Shubh Lakshmi**, Sanjib Ganguly- *IEEE Transactions on Power Systems*, 34(6), 4784–4795 (2019)

Multi-objective Planning for the Allocation of PV-BESS Integrated Open Unified Power Quality Conditioner for Peak Load Shaving of Radial Distribution Networks- **Shubh Lakshmi**, Sanjib Ganguly- *Journal of Energy storage* (Elsevier), 22, 208–218 (2019)

Modelling and Allocation of Open-UPQC-integrated PV Generation System to Improve the Energy Efficiency and Power Quality of Radial Distribution Networks- **Shubh Lakshmi**, Sanjib Ganguly- *IET Renewable Power Generation*, 12(5), 605–613 (2018)

Modelling and Allocation Planning of Voltage-sourced Converters to Improve the Rooftop PV Hosting Capacity and Energy Efficiency of Distribution Networks- **Shubh Lakshmi**, Sanjib Ganguly- *IET Generation, Transmission & Distribution*, 12(20), 4462–4471 (2018)

Simultaneous Optimization of Photovoltaic Hosting Capacity and Energy Loss of Radial Distribution Networks with Open Unified Power Quality Conditioner Allocation- **Shubh Lakshmi**, Sanjib Ganguly- *IET Renewable Power Generation*, 12(12), 1382–1389 (2018)

A Comparative Study among UPQC Models with and without Real Power Injection to Improve Energy Efficiency of Radial Distribution Networks- **Shubh Lakshmi**, Sanjib Ganguly- *Energy Systems* (Springer), 1–26, 2018

BOOK CHAPTERS

Exhaustive Search Approach to Place PV in Distribution Networks for Power Loss Minimization- P. Manoj Sai, M. Dhana Sai Baji, **Shubh Lakshmi**, Tousif Khan Nizami- *Soft Computing: Theories and Applications, Lecture Notes in Networks and Systems*, vol. 425, Springer, Singapore, pp 815–824 (2022)

Transition of Power Distribution System Planning from Passive to Active Networks: A State-of-the-art Review and A New Proposal- **Shubh Lakshmi**, Sanjib Ganguly- *Sustainable Energy Technology and Policies*, Springer, Singapore, 87–117 (2018).

INTERNATIONAL CONFERENCES

Centralized and Distributed Battery Energy Storage System for Peak Load Demand Support of Radial Distribution Networks- **Shubh Lakshmi**, Sanjib Ganguly- 13th IEEE PES PowerTech 2019 Conference, 23-27 June 2019, Milan, Italy.

Steady-state Model for Open Unified Power Quality Conditioner for Power Quality and Energy Efficiency Improvement of Radial Distribution Networks- **Shubh Lakshmi**, and Sanjib Ganguly- 2nd International Conference on Energy, Power, and Environment (ICEPE 2018), 1-2 June 2018, Shillong, India.

Energy Loss Minimization with Open Unified Power Quality Conditioner Placement in Radial Distribution Networks Using Particle Swarm Optimization- **Shubh Lakshmi**, Sanjib Ganguly- 7th International Conference on Power Systems (ICPS 2017), 21-23 December 2017, Pune, India.

Open Unified Power Quality Conditioner Model with and without Storage Units to Improve Power Quality and Losses of Radial Distribution Networks- **Shubh Lakshmi**, Sanjib Ganguly, Upasana Sarma- 14th IEEE India Council International Conference (INDICON 2017), 15-17 December 2017, Roorkee, India.

Optimal Load Frequency Control of Hybrid Renewable Energy Systems Using PSO and LQR- Gauri Shankar, **Shubh Lakshmi**, Nandala Nagarjuna- International Conference on Power and Advanced Control Engineering (ICPACE 2015), 12-14 August 2015, Bengaluru, India.

Frequency Control of Hybrid Renewable Energy System with PSO Optimized Controller- Gauri Shankar, **Shubh Lakshmi**- International Conference on Recent Developments in Control, Automation, and Power Engineering (RDCAPE 2015), 12-13 March 2015, Noida, India.