

Detailed Bio-data

Dr. Saurabh Shukla (Senior Member IEEE), born in Andal (West Bengal), India, in 1988, received his B.Tech. degree in Electrical Engineering from Asansol Engineering College (WBUT) in 2010, Post Graduate Diploma Course in Thermal Power Plant Engineering from National Power Training Institute (N.P.T.I) Nangal in 2012, and M.Tech. degree in Instrumentation and Control Engineering from the Sant Longowal Institute of Engineering and Technology (SLIET) Sangrur, Punjab in 2014. He has been awarded Ph.D. degree in the Department of Electrical Engineering, Indian Institute of Technology (IIT) Delhi in 2019. He served as visiting researcher in Khalifa University, Abu Dhabi (UAE) in 2020 and was Assistant Professor in NIT Hamirpur in 2021. He was associated with Thapar Institute of Engineering and Technology as an Assistant Professor from 2021-2025. He is currently serving as Assistant Professor, Grade-II in the Department of Electrical Engineering in MANIT Bhopal. His areas of research interests include power electronics, electrical machines and drives, and renewable energy.

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- [1] Ranen Sen, **S. Shukla**, and Shakti Singh, "A Novel Power Flow Control Scheme of Grid-Battery Integrated Induction Motor Driven E-Mobility Charger", in Proc. 2023 9th IEEE India International Conference on Power Electronics (*IICPE*), 2023, pp. 1-6.
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- [3] R. Sen, Y. Singh, S. Shukla, B. Singh, S. Singh and K. K. Gupta, "A New Control Strategy for PV-Fed Battery-Based E-Mobility System Using an Induction Motor", in Proc. International Conference on Electric Power and Energy Conversion Systems (*EPECS*), Sharjah, 2024, pp. 62-67.
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- [10] **S. Shukla**, H. Parveen and B. Singh, "Flux optimization of PV fed induction motor drive with ANN based current control for water pumping," in Proc. *IEEMA Engineer Infinite Conference (eTechNxT)*, 2018, pp. 1-6.

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- [12] **S. Shukla** and B. Singh, "An Effective Solar PV Fed Modified Vector Control of IMD for Water Pumping," in *Proc. IEEE India Council International Conference (INDICON)*, 2017, pp. 1-6.
- [13] **S. Shukla** and B. Singh, "MRAS based speed estimation of single stage solar powered vector controlled induction motor drive for water pumping," in *Proc. 7th Power India International Conference (PIICON)*, 2016, pp. 1-6.
- [14] **S. Shukla** and B. Singh, "Grid-PV Array Fed Induction Motor Drive for Water Pumping," in *Proc. IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)*, 2018, pp. 1-6.
- [15] **S. Shukla** and B. Singh, "Neuro-Fuzzy Logic Based Control Scheme for PV-Battery Integrated Sensorless Induction Motor Drive for Water Pumping," in *Proc. IEEE India International Conference on Power Electronics (IICPE)*, 2018, pp. 1-6.
- [16] **S. Shukla**, A. Al-Durra, T. H. M. El-Fouly and E. F. El-Saadany, "Bidirectional Power Flow Control of Solar PV Array Based Multifunctional E-Mobility Charger," in *Proc. International Conference on Smart Power & Internet Energy Systems (SPIES)*, Bangkok, Thailand, 2020, pp. 391-396.

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- [1] B. Singh and S. Shukla: 'Reduced sensor based single PV array fed induction motor drive for water pumping,' Indian Patent No. 201911024165, Official Journal, No. 52/2020, 25-12-2020.
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