

Faculty profile

1. Dr. D S Bankar

Qualification	Board/IIT/Unv.	Institute and place where studies	Year of passing	Class & % marks
Ph.D Electrical Engineering	Bharati Vidyapeeth Deemed to be University	B.V.D.U.C.O.E. PUNE	2015	--
M.E. Electrical Power System	Pune University	C.O.E.P.	2005	62.64
B.E. Electrical	Pune University	A.I.S.S.M.S.'S C.O.E. Pune	2000	62.23
Other (GATE)	I.I.T	--	2000	76.056

Project Achievements

Title of Project	Year of Starting	Founding Agency	Founds Received
Transient Analysis of DFIG Used in WEC system	2013	TEQIP - II	2,98,000/-
Study of suitability of different generators and its power quality analysis for wind power applications	2017	TEQIP - II	2,97,000/-
Design & Development of Test jig of Electrical Vehicle in association with Propellex solutions	2017	2018	17,00,000/-
Dynamic Control and Performance Analysis of Switched Reluctance Motor using Novel Approach	2023	Seed money	1,00,000/-

Publications

International Journal (s): 14 National Journals (s) : 03

International Conference (s): 10 National Conference: 02

- 1. Non-contact power system fault diagnosis: a machine learning approach with electromagnetic current sensing**, Nehete, A.L., Bankar, D.S., Asati, R., Khadse, C. *Indonesian Journal of Electrical Engineering and Computer Science* Open source preview, 2024, 36(3), pp. 1356–1364

2. **Improved Reduced Switch Converter Topology for Torque Ripple Reduction in Four-Phase Switched Reluctance Motor Under Dynamic Loading** Asati, R., Bankar, D.S., Jadoun, V.K., Malik, H., Pedro García Márquez, F. *International Journal of Mathematical Engineering and Management Sciences* Open source preview, 2024, 9(5), pp. 1019–1034
3. **Fuzzy controlled modified reduced switch converter for switched reluctance motor under dynamic loading** Asati, R., Bankar, D.S., Apte, A., Nehete, A.L., Mandake, Y. *Indonesian Journal of Electrical Engineering and Computer Science* Open source preview, 2024, 34(1), pp. 50–58
4. **Performance Analysis of Classical Converter Using Different Control Strategies for Switched Reluctance Motor with Dynamic Loading** Asati, R., Bankar, D.S. *Lecture Notes in Electrical Engineering* Open source preview, 2024, 1086, pp. 457–467
5. **Torque Ripple Assessment of Converter Topologies for Switched Reluctance Motor** Asati, R., Bankar, D.S., Nehete, A.L. 2024 IEEE 3rd International Conference on Electrical Power and Energy Systems Icepes 2024 Open source preview, 2024
6. **Review of revisions of IEEE 519 Standard on Power System Harmonics (1981 to 2022)** Shelar, S., Bankar, D., Bakre, S. *Proceedings of International Conference on Harmonics and Quality of Power Ichqp* Open source preview, 2024, pp. 415–420
7. **Harmonic Measurement and Analysis in Manufacturing Industry: Case Study** Shelar, S., Bankar, D., Singh, P.K. *Proceedings of International Conference on Harmonics and Quality of Power Ichqp* Open source preview, 2024, pp. 463–467
8. **Contingency Analysis for a Solar Energy Generation System Using Real-Time Data Analysis** Mehtre, V.V., Namekar, S., Bankar, D.S. *Lecture Notes in Electrical Engineering* Open source preview, 2024, 1086, pp. 853–866

9. ***Design, Optimization, and Performance Enhancement of Switched Reluctance Motor for Pollution-Free Electric Vehicle Application*** Mandake, Y.B., Bankar, D.S. *Lecture Notes in Electrical Engineering* Open source preview, 2024, 1086, pp. 495–512
10. ***Super capacitor based cost effective hybrid energy storage system with reduction in battery size for diesel generator cold cranking*** Moholkar, A.P., Bankar, D.S., Karandikar, P.B. *Indonesian Journal of Electrical Engineering and Computer Science* Open source preview, 2023, 31(1), pp. 22–32
11. ***Comparative analysis of converter topologies used in switched reluctance motor for high torque electric vehicle application*** Asati, R., Bankar, D.S., Nehete, A.L. *Materials Today Proceedings* Open source preview, 2023, 72, pp. 736–740
12. ***Fault Diagnosis of Power System Component by Wavelet Analysis of Current Signals*** Nehete, A.L., Bankar, D.S., Asati, R., Khadse, C. 2023 14th International Conference on Computing Communication and Networking Technologies Icccnt 2023 Open source preview,
13. ***Study and Simulation of Switched Reluctance Motor Drive Circuit for EV Application*** Mandake, Y.B., Bankar, D.S. *Journal of Mines Metals and Fuels* Open source preview, 2023, 71(12), pp. 207–217
14. ***Analysis and Optimization of Fault - Tolerant Behaviour of Motors in Electric Vehicular Systems*** Khare, S.J., Mandake, Y.B., Bankar, D.S. *Lecture Notes in Networks and Systems* Open source preview, 2023, 671 LNNS, pp. 23–38
15. ***Synthesized carbon material with semi-organic and aqueous electrolyte for super capacitor application*** Moholkar, A.P., Bankar, D.S., Karandikar, P.B. *Indonesian Journal of Electrical Engineering and Computer Science* Open source preview, 2022, 28(2), pp. 654–662

- 16. Monitoring and Analysis of Power Quality Issues in Distribution Network—A Case Study** Jape, V.S., Bankar, D.S., Sarwade, T. *Advances in Intelligent Systems and Computing* Open source preview, 2020, 1089, pp. 439–448
- 17. Power Quality Problems Mitigation by DVR Using SC Structured Cascaded MPAC** Mohite, S., Jape, V.S., Bankar, D.S. *Lecture Notes in Electrical Engineering* Open source preview, 2020, 601, pp. 796–804
- 18. Effects of harmonics on major equipments in power distribution network** Jape, V.S., Bankar, D.S., Kulkarni, H.H., Borkar, R.V. *International Journal of Scientific and Technology Research* Open source preview, 2019, 8(10), pp. 827–830
- 19. Analysis of power quality indices and harmonics in power distribution network with reference to IEEE standard 519-1992** Kulkarni, H.H., Jape, V.S., Bankar, D.S., Borkar, R.V. *International Journal of Scientific and Technology Research* Open source preview, 2019, 8(10), pp. 1065–1067.
- 20. Design modeling and system integration of fuel cell in tri-generation system-review** Hasarmani, T.S., Holmukhe, R.M., Bankar, D.S. *Aip Conference Proceedings* Open source preview, 2018, 2039, 020042
- 21. Performance comparison of SCIG and DFIG based wind farm in ETAP** Bankar, D.S., Desai, S.G., Mehtre, V.V. *International Conference on Automatic Control and Dynamic Optimization Techniques* Icacdot 2016 Open source preview, 2017, pp. 403–408, 7877617
- 22. Analysis of a Doubly Fed induction generator based wind farm** Mehtre, V.V., Desai, S.G., Bankar, D.S. *Proceedings 2016 IEEE International Conference on Technological Innovations in ICT for Agriculture and Rural Development* Tiar 2016 Open source preview, 2016, pp. 139–145, 7801228

- 23. Harmonic analysis and mitigation in wind power plants** Desai, S.G., Mehtre, V.V., Bankar, D.S. *Conference on Advances in Signal Processing Casp 2016* Open source preview, 2016, pp. 43–48, 7746135
- 24. Transient analysis of grid connected Doubly-fed induction generator** Bankar, D.S., Wadgaonkar, A.J., Hirve, S.S., Talange, D.B. *2015 International Conference on Industrial Instrumentation and Control Icic 2015* Open source preview, 2015, pp. 1278–1283, 7150945
- 25. Enhancement of low voltage ride through capability of DFIG used in wind power applications** Wadgaonkar, A.J., Bankar, D.S., Bharadwaj, P.D., Talange, D.B. *2015 International Conference on Industrial Instrumentation and Control Icic 2015* Open source preview, 2015, pp. 289–293, 7150755

Patent

Granted : on 18/09/2023

Patent No : 452570

Application no. 498/MUM/2013

Title : - “Variable Speed wind turbines with doubly fed induction generator and analysis of dynamic behaviour thereof”.