

## **FACULTY PROFILE**



### **Dr.M.Maheswari, M.E.,Ph.D**

Associate Professor

Department of ECE

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**Experience:** 13 years

Industry: 3 years

Teaching: More than 10 years

**Research area:** Renewable Energy, Grid integration of renewable energy sources, Smart grid, Micro grid and Internet of Things.

### **Recent Publications:**

1. M.Maheswari and A.K. Parvathy "Voltage Profile Improvement and Line Loss Reduction in Radial Distribution system with Distributed Generation Integration", International Journal of Applied Engineering Research, ISSN 0973-4562, Vol.10(2015)
2. M.Maheswari and A.K. Parvathy "Impact of wind turbine generators on a radial distribution system: A comparative analysis" in Journal of Advanced Research Dynamical and Control Systems. ISSN1943-023X, Vol.11(2017)
3. M.Maheswari and A.K. Parvathy "Modeling, Control and Analysis of Doubly Fed Induction Generator during Steady State and Transient State" in Journal of pure and applied Mathematics. ISSN: 1314-3395, Volume 120 No. 6 (2018),1517-1535
4. Reddy, T.C., Reddy, K.K., Venkatesh, B., Muthusamy, M., Pillai, A.V. " Simulation of super capacitor energy storage system with Bi DC-DC converters" in Journal of Physics: Conference Series, 2019, 1362(1), 012055
5. Muthusamy, M., Parvathy, A.K. "Implementation of Modified Field-Oriented Control Scheme for Improving the Fault Ride Through Ability of BDFIG System" in Journal of Circuits, Systems and Computers, 2020, 29(3), 2050040
6. Maheswari, M. and Parvathy, A.K. (2020). Artificial Intelligence techniques based Low voltage ride through enhancement of Doubly Fed Induction Generator. Journal

of Green Engineering, 2020, 10(10), pp. 8460–8477.

Book Chapter Publication:

- Published a chapter titled “Soft Computing techniques based LVRT enhancement of Doubly fed induction wind generator” in Intelligent Paradigms for Smart Grid and Renewable Energy Systems-Springer.

PATENT DETAILS:

- Australian patent granted titled “ SECURING CRITICAL DIGITAL ASSETS OF CHEMICAL INDUSTRIES USING SECURE DEVELOPMENT OPERATIONAL ENVIRONMENT (SDOE) FRAMEWORK” PATENT NO: 2021102532
- Australian patent granted titled “ EMPLOYMENT AND SKILL GAP IDENTIFICATION TECHNIQUE USING MACHINE LEARNING FOR ITES SECTOR” Patent No: 2021100597

Professional Society Membership:

- IEEE-Professional Member and IEEE Power and Energy Society, Industrial Applications Society, IEEE-SIGHT,IEEE-Women in Engineering-Membership ID 92934972
- IET-Member
- ISTE Member

Achievements:

- Co investigator for MNRE funded project titled “ “Cyber physical controller based Hybrid Energy Management system” worth **Rs.35.95 lakhs** obtained during the year 2014-2018.
- Won Third prize in IEEE india Covid move Hackathon.