T Dinesh Varma, M. Tech

Designation : Assistant Professor

Department : Department of Electrical and Electronics Engineering

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RESEARCH INTERESTS

- ✓ Renewable Energy Systems: Modeling and Analysis
- ✓ Hybrid Microgrid systems: Operations and Control
- ✓ Real Time simulations and Hardware-in-Loop (HIL) control
- ✓ Model Predictive Control based Optimal Energy Management

Academic Qualifications

- ✓ Ph.D. in Energy Science, Indian Institute of Technology Kharagpur, India (Continuing)
- ✓ M. Tech. in Power Systems, National Institute of Technology Warangal, India

Specialization: Power Systems.

Teaching Experience/ Industrial Experience/ Research Experience

- ✓ Teaching Experience: 02 years 08 months
- ✓ Research Experience: 06 years

PUBLICATIONS

JOURNAL& CONFERENCES

[1]. **T.D. Varma,** D. Pal and P.Bajpai, "Comprehensive Performance Evaluation of Various Solar PV System Configurations," IET Renew. Power Gener., vol. 13., no. 8, 2019. ***(SCI Impact Factor : 4.55)***

[2]. **T.D. Varma**, P.Bajpai and N.K.Kishore, "Real-time communication in Hybrid Microgrid system with centralized communication based control under power imbalances", OPAL-RT 12th International Conference on Real-Time Simulation, Virtual edition, June, 2020.

[3]. S.Sinha, **T.D.Varma** and P.Bajpai, "Fuzzy Logic Controlled Power Sharing Among Energy Storage Devices in Multiple Standalone DC Microgrids," IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), pp. 1-5, Bucharest, Romania, Oct., 2019.

[4]. **T.D.Varma** and D.M.Vinod Kumar, "Multi Objective Economic Emission Load Dispatch Using Teacher-Learning Based Optimization Technique," IFAC Intern. Con. on Advances in Control and Optimization of Dynamical Systems(ACODS), pp. 819-826, IIT Kanpur, India, March., 2014.

ANY OTHER

BOOK CHAPTERS

[1]. **T.D. Varma** and P.Bajpai, Techno-Economic Performance Evaluation among different Solar Photovoltaic System Configurations", Design, analysis and Applications of Renewable Energy systems, Elsevier, 2020.

[2]. **T.D. Varma** and P.Bajpai "IoT Driven Data Extraction Applications using Common Information Model in a Hybrid Microgrid System", Design, analysis and Applications of Renewable Energy systems, Elsevier, 2020.

CONSULTANCY PROJECTS

[1]. **VADIM Infrastructure Pvt. Limited, Chennai, India. (Rs. 1,15,000/-),** ``Integrated Network Planning and system study for Mega Lift Irrigation project cluster III" under Department of Water Resources, Government of Odisha, for Larsen & Turbo Limited Water and Renewable Energy IC, Chennai, **2016**.

[2]. **Saisanket Enterprises Pvt. Limited, Hyderabad, India (Rs.2,00,000/-),**`` Integrated Network Planning and system study for Mega Lift Irrigation project cluster I & II, for GVPR Engineers Limited. Hyderabad, **2016.**

[3]. **Larsen & Turbo Limited Water and Renewable Energy IC, Chennai, India. (Rs. 4,95,000/-),**``Integrated Network Planning and system study for Mega Lift Irrigation project cluster VI, VIII and XI" under Department of Water Resources, Government of Odisha, **2016**.

[4]. **Larsen & Turbo Limited Water and Renewable Energy IC, Chennai, India. (Rs. 5,00,000/-),**``Integrated Network Planning and system study for Mega Lift Irrigation project cluster IX and XII" under Department of Water Resources, Government of Odisha, **2017**.

[5]. **Larsen & Turbo Limited Water and Renewable Energy IC, Chennai, India. (Rs. 1,00,000/-),**``Integrated Network Planning and system study for schemes at Laida and Rengali (Cluster-III)" under Department of Water Resources, Government of Odisha, **2017**.

[6]. **Mega Engineering and Infrastructure Ltd. (Hyderabad) (Rs. 2,75,000/-)** Integrated Network Planning and system study for Mega Lift Irrigation project for schemes (Cluster VII)" under Department of Water Resources, Government of Odisha, **2018**.

AWARDS

Received Biju Patanaik University of Technology Gold Medal in year 2013