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Paper ID : 279

Paper Title : Cycle-Level Capacity Tracking and Trajectory Smoothing for Lithium-Ion Batteries Using an Auto-Regressive ANFIS (Buse Ogretir, Gulcihan Ozdemir)

Paper ID : 346

Paper Title : Long- to Medium-Term Energy Forecasting with Fuzzy Logic via Weather Parameters and Study of Different Seasonal Cases (Doruk Can UI, Gulcihan Ozdemir)

Bio :

Dr. Gulcihan Ozdemir (IEEE Senior Member) is an associate professor in the Department of Applied Informatics at Istanbul Technical University. She received her Ph.D. in Computational Science and Engineering and her B.Sc. in Electrical Engineering, both from Istanbul Technical University, and her M.Sc. in Power Systems from the University of Wisconsin–Madison, USA. Her doctoral research focused on regulating closed-loop power flows in interconnected electric power systems through fuzzy decision-making.

Her research focuses on modeling, simulation, and optimization, with an emphasis on fuzzy logic and intelligent system applications in power systems, including Volt/VAR optimization, distributed power management, and load forecasting. She also works on image processing and data analysis, employing statistical, artificial intelligence, and machine learning techniques.