



Hamed Babanezhad
Ph.D in Electrical Engineering
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Education

B.s.c in Electrical Engineering
 Alameh Mohades in 2009 GPA 17.44/20

Fabrication of Multi-point fluid level control system with infrared sensors based on AVR

M.s.c in Electrical Engineering
 IAU in 2013 & GPA: 18.75/20

Optimization in Virtual Power Plant Base Fuzzy Interference System

PHD in Electrical Engineering
 IAU in 2022 & GPA: 18/20

Design Hybrid Multi-layer Energy Management System for Multi-Microgrid System

Research Field

Energy management

Design, optimization, Implementation, control , Energy Management in Smart city. Digitalization,

- Design energy management in smart grid , microgrid and distributed energy resources, Demand side Management , inspection load pattern

Microgrid & Smart Grid & smart Home

Design, implementation of modern electrical networks like smart grids, microgrids, and echogrid

- Control method inspection and implementation modern protection system for microgrid and smart grid, Design and implementation of modern centralized or decentralized control methods for microgrid

Renewable Energy and Energy Storage

Study about battery storage system for specially using in solar system or power plant application

- management of clean energy sources including Solar and PV system, wind power, biomass, hydropower and study about any green energy resources information and energy management in relation with storage sys

Experience

Microgrid Researcher 2021-Continue

Lead electrical Engineer in GIS substation

Operation Shift Manger in Power Plant-Con

Senior electrical Engineer in Gas Power Plant

Senior Engineer of Power Plant & shift manager

Design and maintenance medium voltage

Book :

- ❖ Principles of scientific and experimental operation of the gas power plant
- ❖ Analysis of frequent incidents in gas power plants
- ❖ Distance protection relay NARI 902-(Translate)
- ❖ A professional and experienced electrical engineer should know(editing)
<https://www.simayedanesh.ir>

paper :

- ❖ Multi-layer energy management software for multi microgrid operation planning and cost analysis
- ❖ Stator Turn-to-Turn Fault Estimation of Induction Motor by Using Probabilistic Neural Network
- ❖ Design of hybrid multilayer systems to improve energy management system in multi-microgrid systems in the presence of wind and solar power
- ❖ Optimization of Multi-Microgrid System Operation Cost with Different Energy Management Tools In The Presence of Energy Storage System
- ❖ Increasing the availability of rural microgrid's controllable load to resources in multi-microgrid system with considering Minimize operation costs
- ❖ Multi-layer energy management software base VBA for multi microgrid operation planning and cost analysis
- ❖ Modify Hydrogen's Boundary Value in Dissolved Gas Analysis
- ❖ Optimization of energy consumption in virtual power plants with decentralized energy management system
- ❖ Optimization of energy consumption in virtual power plants with decentralized energy management system and FIS

Publication