

# Fuzzy-Logic Based Control for Battery Management in Micro-Grid

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**Abstract**— In this paper, a Fuzzy-Logic based control framework is proposed for Battery Management in Micro-Grid System. The Micro-Grid system operates synchronously with the main grid and also has the ability to operate independently from the power grid. Distributed renewable energy generators including solar, wind, and batteries supply power to the consumer in the Micro-Grid network. The goal is to control the amount of power given to the storage system in order to minimize a cost function based on payment/profit and distribution loss through reasonable decision making using predefined profiles of system variables such as Load Demand, Electricity Price, and Renewable Generation.

Simulation results are presented and discussed. The proposed intelligent control system turns out to be capable of achieving effective energy management.

**Index Terms**—Micro-Grid, Control, Power Flow, Fuzzy-Logic, Load Demand.

## I. INTRODUCTION

Micro-Grid is can be referred to as a small scale grid that is designed to provide power for small communities. A Micro-Grid is an aggregation of multiple distributed generators (DGs) such as renewable energy sources, conventional generators, and energy storage systems which work together as a power supply network in order to provide both electric power and thermal energy for small communities which may vary from one common building to a smart house or even a set of loads consisting of a mixture of different structures such as buildings, factories, etc. Typically, a Micro-Grid operates in parallel with the main grid. However, there are cases in which a Micro-Grid operates in islanded mode, or in a disconnected state [1]. In this article, in addition to both of the states already mentioned, a third state is assumed for operation of Micro-Grid in which excess power in the Micro-Grid is delivered to the main grid, i.e. the excess power is sold to the grid.

## II. SYSTEM MODEL

A three bus system is used to model the Micro-Grid network for simulations in this article. One of the busses in the

distributed generation system model is assumed to serve the renewable generators which include either solar farm, wind farm, or any other renewable generation units. Another bus is assumed to be working as the grid (utility) bus which will provide the complement part of the power demand that renewable generation system cannot afford to the load. The third bus will be the specific load to which the demanded power is to be provided. This load can be anything from a common building or a smart house, to even a group of plants and factories or a mixture of all of them. Figure 1 shows an overall Micro-Grid schematic including Renewable Electricity Generators and Storage Unit, Utility, and Typical Load.

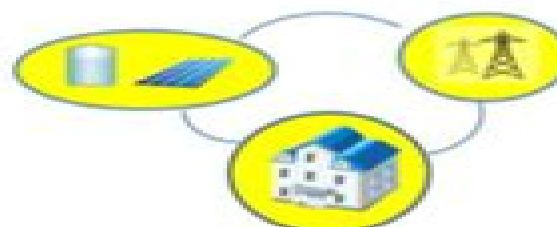


Figure 1. Micro-Grid Schematic

There are two scenarios assumed for simulation in this article, scenario 1 deals with a Micro-Grid which includes the renewable generation unit without any battery storage unit. Therefore there will not be any approaches required for controlling the battery storage system in this scenario. The second scenario deals with the same Micro-Grid system as mentioned in scenario 1 but with the battery storage unit considered to be connected to the same bus as the renewable generators. These two scenarios will be described in more detail in the next section "Problem Statement". The characteristics of busses in each of the two scenarios are as follows:

Scenario 1:

- Bus1 is of type PQ and is used as the renewable generation unit's bus.
- Bus2 is of type Slack (reference) and is used as the Utility (grid) bus.
- Bus3 is of type PV and is used as the Load bus.

# Fuzzy Logic Based Control For Battery Management In Micro Grid

**M. Godoy Simões, Felix A. Farret**



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**Intelligent Systems and Advanced Computing Sciences** Hani Hagrass, Younes Bennani, Mohamed

Nemiche, 2025-07-01 This book constitutes revised selected papers from the thoroughly refereed conference proceedings of the 4th International Conference on Intelligent Systems and Advanced Computing Sciences ISACS 2023 which took place in Taza Morocco in October 26 27 2023 The 30 full papers and 8 short papers presented in these proceedings were carefully reviewed and selected from 131 submissions This conference focusing on all theoretical and practical aspects related to information technology and communications security

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**Energy and Exergy for Sustainable and Clean Environment, Volume 2** V. Edwin Geo,Fethi Aloui,2022-09-19 This multi disciplinary book presents the most recent advances in exergy energy and environmental issues Volume 2 focuses on fundamentals in the field and covers current problems future needs and prospects in the area of energy and environment from researchers worldwide Based on some selected lectures from the Eleventh International Exergy Energy and Environmental Symposium IEEEES 11 and complemented by further invited contributions this comprehensive set of contributions promote the exchange of new ideas and techniques in energy conversion and conservation in order to exchange best practices in energetic efficiency Included are fundamental and historical coverage of the green transportation and sustainable mobility sectors especially regarding the development of sustainable technologies for thermal comforts and green transportation vehicles Furthermore contributions on renewable and sustainable energy sources strategies for energy production and the carbon free society constitute an important part of this book

**Energy Management Strategies Based on Fuzzy Logic Control for Grid-tied Domestic Electro-thermal Microgrid** Diego Gustavo Arcos Avilés,2016 The environmental and economic benefits related to the reduction of both carbon dioxide emission and transmission losses have made distributed renewable generation systems became a competitive solution for future power systems In this context Microgrids MG are considered as the key building blocks of smart grids and have aroused great attention in the last decade for their potential and the impact they may have in the coming future The MG concept has

captured great attention in the last years since it can be considered one of the most suitable alternatives for integration of distributed generation units in the utility grid. However, this integration involves some challenges to deal with, especially when penetration of Renewable Energy Sources (RES) into the distribution network is increased. Therefore, an effective Energy Management System (EMS) is required to ensure optimal energy utilization within the MG, consequently facilitating both the grid integration and operator control. In this regard, the EMS strategy design depends on the application, MG power architecture, and the power management capability of the MG elements. This dissertation research focuses on the design of different EMS strategies based on Fuzzy Logic Control (FLC) for a residential grid connected electro-thermal MG including renewable power generation, i.e., photovoltaic and wind turbine generators, and storage capability, i.e., battery bank and water storage tank. The main goal of the FLC-based EMS strategies is to minimize the grid power fluctuations while keeping the battery State of Charge (SOC) within secure limits. In order to accomplish this goal, the controller design parameters, such as membership functions and rule base of the FLC-based EMS strategies, are adjusted to optimize a pre-defined set of quality criteria of the MG behavior. The analysis and design of the FLC-based EMS strategies for electrical and electro-thermal MG power architectures are developed considering two different scenarios: a first scenario where the MG power forecasting is not provided, and a second scenario where the forecast of generation power and load demand are considered. A comparison with the different EMS strategies is presented in simulation level, whereas the features of the enhanced FLC-based EMS strategies are experimentally tested on a real residential microgrid implemented at the Public University of Navarre (UPNA).

*Science Abstracts*, 1995     **Journal of Scientific and Industrial Research**, 2015     *NASA SP.*, 1962     **Large Space Structures & Systems in the Space Station Era**, 1992     *Large Space Structures and Systems in the Space Station Era: A Bibliography with Indexes (supplement 04)*, 1992     **Synerjy**, 1996     **International Aerospace Abstracts**, 1999     *Electrical & Electronics Abstracts*, 1997     **Alternative Energy Systems** M. Godoy Simões, Felix A. Farret, 2008

Durable and cost-effective induction power generators have undergone numerous improvements that make them an increasingly attractive option for renewable energy applications, particularly for wind and hydropower generation systems. From fundamental concepts to the latest technologies, *Alternative Energy Systems: Design and Analysis with Induction Generators*, Second Edition, provides detailed and accurate coverage of all aspects related to the design, operation, and overall analysis of such systems. Placing a greater emphasis on providing clear, precise, and succinct explanations, this second edition features new, revised, and updated content, as well as figures, tables, equations, and examples. Each chapter introduces a multi-step, chapter-length problem relating the material to a real application. The solution appears at the end of the chapter, along with additional practice problems and references. **New Material in This Edition:** Updated definitions for generated power and efficiency; Technological advances such as new applications using doubly fed induction generators; New methodologies such as the magnetization curve representation for induction generators; Additional focus on renewable energy applications such

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Kumar Pandey, Sanjeevikumar Padmanaban, Suman Lata Tripathi, Vivek Patel, Vikas Patel, 2024-06-12 The book discusses principles of optimization techniques for microgrid applications specifically for microgrid system stability smart charging and storage units It also highlights the importance of adaptive learning techniques for controlling autonomous microgrids It further presents optimization based computing techniques like fuzzy logic and neural networks to enhance the computational speed Features Discusses heuristic techniques and evolutionary algorithms in microgrids optimization problems Covers operation management distributed control approaches and conventional control methods for microgrids Presents intelligent control for energy management and battery charging systems Highlights a comprehensive treatment of power sharing in DC microgrids Explains control of low voltage microgrids with master slave architecture where distributed energy resources interface with the grid by means of conventional current driven inverters It is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering computer science and engineering and environmental engineering

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Fuzzy Logic Based Control For Battery Management In Micro Grid**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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