



Review

# Reinforcement Learning-Based Intelligent Control Strategies for Optimal Power Management in Advanced Power Distribution Systems: A Survey

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Abstract: Intelligent energy management in renewable-based power distribution applications, such as microgrids, smart grids, smart buildings, and EV systems, is becoming increasingly important in the context of the transition toward the decentralization, digitalization, and decarbonization of energy networks. Arguably, many challenges can be overcome, and benefits leveraged, in this transition by the adoption of intelligent autonomous computer-based decision-making through the introduction of smart technologies, specifically artificial intelligence. Unlike other numerical or soft computing optimization methods, the control based on artificial intelligence allows the decentralized power units to collaborate in making the best decision of fulfilling the administrator's needs, rather than only a primitive decentralization based only on the division of tasks. Among the smart approaches, reinforcement learning stands as the most relevant and successful, particularly in power distribution management applications. The reason is it does not need an accurate model for attaining an optimized solution regarding the interaction with the environment. Accordingly, there is an ongoing need to accomplish a clear, up-to-date, vision of the development level, especially with the lack of recent comprehensive detailed reviews of this vitally important research field. Therefore, this paper fulfills the need and presents a comprehensive review of the state-of-the-art successful and distinguished intelligent control strategies-based RL in optimizing the management of power flow and distribution. Wherein extensive importance is given to the classification of the literature on emerging strategies, the proposals based on RL multiagent, and the multiagent primary secondary control of managing power flow in micro and smart grids, particularly the energy storage. As a result, 126 of the most relevant, recent, and non-incremental have been reviewed and put into relevant categories. Furthermore, salient features have been identified of the major positive and negative, of each selection.

Keywords: microgrid; smart grid; multiagent; artificial intelligence; decentralization; autonomy; renewable energy

#### 1. Introduction

The control of renewable energy in modern power distribution applications, such as microgrids, smart grids, smart buildings, and electric vehicles (EVs) applications, is experiencing a large, fundamental transition due to several technological advances and environmental considerations. For instance, the world is gearing toward the enhancement of the introduction of renewable energy and transportation based on either EVs or alternative fuels, due to their economic, technical, and environmental advantages [1]. However, the current global electricity and alternative fuel generation is still a mixed fuel, with the supremacy of fossil fuel remaining in many regions of the world. In fact, both trends are fundamentally related since the use of renewable energy in charging EVs or generating alternative fuels such as hydrogen would significantly reduce greenhouse gas emissions [2]. Optimal power distribution control is the most prominent challenge in enhancing the penetration and sustainability of renewable energy and reducing the use of fossil fuels, due



Citations Al-Saudi, M.; Al-Gross, M.; Short, M. Reinforcement Learning-Based Intelligent Control Stategies for Optimal Fower Management in Advanced Power Distribution Systems: A Survey, Energies 2023, 1s, 1608. https:// doi.org/10.3396/en/s041608

Academic Editor: Ali Mehrigi-Sani

Received: 10 January 2023 Revised: 28 January 2023 Accepted: 1 February 2023 Published: 6 February 2023



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sense of self worth Through real life examples and expert advice The Power of Positive Reinforcementshows how small gestures of encouragement and praise can make a big difference in a child s development Readers will discover the power of celebrating achievements no matter how small and how to create a supportive environment where children feel valued and empowered This book highlights the transformative effects of positivity and how it can shape a child s outlook on themselves and the world around them From boosting confidence to fostering resilience this book emphasizes the long lasting impact of positive reinforcement on a child's mental health and emotional well being By cultivating a culture of positivity and encouragement caregivers can help children thrive in all aspects of their lives **Drawings for the Boone Project** Tennessee Valley Authority. Engineering and Construction Divisions, 1957 **Separation of Powers in African** Constitutionalism Charles M. Fombad, 2016-03-03 The new series Stellenbosch Handbooks in African Constitutional Law will engage with contemporary issues of constitutionalism in Africa filling a notable gap in African comparative constitutional law Separation of Powers in African Constitutionalism is the first in the series examining one of the critical measures introduced by African constitutional designers in their attempts to entrench an ethos of constitutionalism on the continent Taking a critical look at the different ways in which attempts have been made to separate the different branches of government the Handbook examines the impact this is having on transparent and accountable governance Beginning with an overview of constitutionalism in Africa and the different influences on modern African constitutional developments it looks at the relationship between the legislature and the executive as well as the relationship between the judiciary and the political branches Despite differences in approaches between the different constitutional cultures that have influenced developments in Africa there remain common problems One of these problems is the constant friction in the relationship between the three branches and the resurgent threats of authoritarianism which clearly suggest that there remain serious problems in both constitutional design and implementation The book also studies the increasing role being played by independent constitutional institutions and how they complement the checks and balances associated with the traditional three branches of government Taiwan Bicycle Guide 2018 ∏FULL BOOK∏ ,2018-10-30 Standard Rules for the Construction of Steam Boilers and Other Pressure Vessels and for Their Care in Service American Society of Mechanical Engineering, 1928 Barge Canal Bulletin New York (State). State Engineer and Surveyor, 1914 **Public Information** Management and E-Government: Policy and Issues Brown, Mary Maureen, Garson, G. David, 2013-02-28 Recently the public sector has given an increasing amount of national and international attention to electronic government systems Therefore it is inevitable that the theoretical implications and intersections between information technology and governmental matters are more widely discussed Public Information Management and E Government Policy and Issues offers a fresh comprehensive dialogue on issues that occur between the public management and information technology domains With its focus on political issues and their effects on the larger public sector this book is valuable for administrators

researchers students and educators who wish to gain foundational and theoretical knowledge on e government policies **Energy Management System for Dispatchable Renewable Power Generation** Amer Al-Hinai, Hassan Haes Alhelou, 2022-11-30 Enhancing the integration of renewable power generation from wind and solar into the traditional power network requires the mitigation of the vulnerabilities affecting the grid as a result of the intermittent nature of these resources Variability and ramp events in power output are the key challenges to the system operators due to their impact on system balancing reserves management scheduling and commitment of generation units This book presents development of energy management system for renewable power generation EMSRPG tool that aims to achieve power dispatching strategies based on forecasting renewable energy resources outputs to guarantee optimal dispatch of hybrid wind solar photovoltaic power systems HWSPS The key selling points of the book include the following Renewable energy management in modern and future smart power systems Energy management systems Modeling and simulations using a real time digital simulator RTDS High penetration level of renewable energy sources Case studies based on Oman's power systems and other power grids This book discusses the challenges of integrating renewable resources including low inertia systems hosting capacity limitations of existing power systems and weak grids It further examines the detailed topologies operation principles recent developments in control techniques and stability of power systems with a large scale of renewables Finally it presents case studies of recent projects from around the world where dispatchable power plant techniques are used to enhance power system operation American Highway Engineers' Handbook Arthur Horace Blanchard, 1919 J. Ward, Iafc, 2013-12-06 Your Complete Fire Officer I and Fire Fighter II Training Solution The National Fire Protection Association NFPA and the International Association of Fire Chiefs IAFC are pleased to bring you the Third Edition of Fire Officer Principles and Practice the next step in the evolution of Fire Officer I and II training Covering the entire spectrum of the 2014 Edition of NFPA 1021 Standard for Fire Officer Professional Qualifications the Third Edition includes the following updates Separation of Fire Officer I and II Level content throughout the textbook and student instructor and technology resources The latest developments in social media and media relations NIST research on fire dynamics fire fighter safety and health issues and fireground accountability and rapid intervention practices A reorganization of chapters to improve course delivery including a new chapter on Rules of Engagement New end of chapter tools including Fire Captain Fire Officer II activities and comprehensive case studies that progress within each chapter throughout the textbook All new Voices of Experience essays and Near Miss Reports Addresses the course objectives for FESHE's Principles of Fire and Emergency Service Administration model curriculum Build the next generation of great fire service leaders with the Third Edition of Fire Officer Principles and Practice Taiwan Bicycle Guide 2018 ☐SECTION 3☐, 2018-10-30 **Inauspicious Beginnings** Onnig Beylerian, Jacques Lévesque, 2004-03-29 The authors detail how the Bush and Clinton administrations relied on catering to allies and building large coalitions to deal with major international security challenges while other principal

powers were either pre occupied with their domestic problems or deferred to the United States As a consequence on the eve of 11 September 2001 the United Nations Security Council remained an older outmoded power configuration incapable of responding efficiently to the with novel challenges besetting it Its relevance has been further questioned by the unilateral **Technology and Transition** Abdelkader Djeflat, Girma Zawdie, 2014-01-14 The occupation of Iraq by the United States Maghreb countries had a promising start in economic growth after independence For the most part they thrived on industrialisation by import substitution but unfortunately this strategy left them with macroeconomic and structural imbalances which together have effectively constrained their ability to compete in the world economic system and to catch up with the rapidly changing global techno economic circumstances Issues relating to aspects of technology transfer to the Maghreb strategies for technological and resource development and the integration of education and R D systems with the productive systems of the economies in the region are discussed along with relevant cases from Mexico China South Korea India and Bangladesh Military Thought ,1998 CHINA IN INDIAN OCEAN REGION Dr. Sidda Goud, Manisha Mookherjee, 2015-02-28 This edited book is the outcome of the International Conference on China in Indian Ocean Region held on 13th 14th November 2014 organized by UGC Centre for Indian Ocean Studies Osmania University Hyderabad Indian Ocean third largest ocean in the world surpasses the Atlantic and Pacific Oceans as the world s largest and most strategically significant trade corridor Indian Ocean Region IOR which is surrounded by Africa Asia and Australia serves as a maritime highway linking trans continental human and economic relationships Being the world's most populated region one third of the world's bulk cargo and around two thirds of world's oil ship tankers pass through it China's interest in the Indian Ocean Region IOR can be traced back to the early 1960s Ever since Beijing has been increasingly deepening its presence in the IOR for a variety of reasons oil trade security etc over 30 per cent of China's seaborne trade worth about US 300 billion transits across IOR Sharing a guarter of the world's population China faces ever increasing demand for energy China has little choice but to look beyond its borders for its energy needs About 77 per cent of its oil imports are sourced from West Asia and Africa and these are transported through the Indian Ocean Thus China's dependence on the Indian Ocean continues to grow for energy imports from the Gulf to import resources from Africa and trade with Europe With China steadily spreading its footprints in the Indian Ocean Region with increasing military presence and with the rapidly growing Navy being equipped with warships destroyers and nuclear submarines this book analyses in depth growing Chinese influence in Indian Ocean Region IOR Geopolitical interests of China Security and Economic implication for India This volume will be of considerable interest to the students and scholars of international relations in the contemporary situation **Soft Computing: Theories** and Applications Tarun K. Sharma, Chang Wook Ahn, Om Prakash Verma, Bijaya Ketan Panigrahi, 2021-06-26 This book focuses on soft computing and how it can be applied to solve real world problems arising in various domains ranging from medicine and healthcare to supply chain management image processing and cryptanalysis It gathers high quality papers

presented at the International Conference on Soft Computing Theories and Applications SoCTA 2020 organized online The book is divided into two volumes and offers valuable insights into soft computing for teachers and researchers alike the book will inspire further research in this dynamic field

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