

# Computational Intelligence Applications to Power Systems

by

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**MICROPROCESSOR-BASED AND  
INTELLIGENT SYSTEMS ENGINEERING**

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# Computational Intelligence Applications To Power Systems

**Nagendra Singh, Sitendra  
Tamrakar, Arvind Mewada, Sanjeev  
Kumar Gupta**

## **Computational Intelligence Applications To Power Systems:**

**Computational Intelligence Applications to Power Systems** Yong-Hua Song, Allan Johns, Raj Aggarwal, 1996-11-30 This book represents a thoroughly comprehensive treatment of computational intelligence from an electrical power system engineer's perspective. Thoroughly well organized and up to date, it examines in some detail all the important aspects of this very exciting and rapidly emerging technology including expert systems, fuzzy logic, artificial neural networks, genetic algorithms, and hybrid systems. Written in a concise and flowing manner by experts in the area of electrical power systems who have had many years of experience in the application of computational intelligence for solving many complex and onerous power system problems, this book is ideal for professional engineers and postgraduate students entering this exciting field. This book would also provide a good foundation for senior undergraduate students entering into their final year of study.

*Applications of Computational Intelligence to Power Systems* Vassilis S. Koudogiannis, 2019 Electric power systems around the world are changing in terms of structure, operation, management, and ownership due to technical, financial, and ideological reasons. Power systems keep on expanding in terms of geographical areas, asset additions, and the penetration of new technologies in generation, transmission, and distribution. The conventional methods for solving the power system design, planning, operation, and control problems have been extensively used for different applications, but these methods suffer from several difficulties, thus providing suboptimal solutions. Computationally intelligent methods can offer better solutions for several conditions and are being widely applied in electrical engineering applications. This Special Issue represents a thorough treatment of computational intelligence from an electrical power system engineer's perspective. Thoroughly well organized and up to date, it examines in detail some of the important aspects of this very exciting and rapidly emerging technology including machine learning, particle swarm optimization, genetic algorithms, and deep learning systems. Written in a concise and flowing manner by experts in the area of electrical power systems who have experience in the application of computational intelligence for solving many complex and difficult power system problems, this Special Issue is ideal for professional engineers and postgraduate students entering this exciting field.

Artificial Intelligence Techniques in Power Systems Kevin Warwick, Arthur Ekwue, Raj Aggarwal, Institution of Electrical Engineers, 1997 The intention of this book is to give an introduction to and an overview of the field of artificial intelligence techniques in power systems with a look at various application studies.

Wind Power Systems Lingfeng Wang, Chanan Singh, Andrew Kusiak, 2011-07-23 Renewable energy sources such as wind power have attracted much attention because they are environmentally friendly, do not produce carbon dioxide, and other emitants, and can enhance a nation's energy security. For example, recently more significant amounts of wind power are being integrated into conventional power grids. Therefore, it is necessary to address various important and challenging issues related to wind power systems which are significantly different from the traditional generation systems. This book is a resource for engineers, practitioners, and decision makers interested in studying or using

the power of computational intelligence based algorithms in handling various important problems in wind power systems at the levels of power generation transmission and distribution Researchers have been developing biologically inspired algorithms in a wide variety of complex large scale engineering domains Distinguished from the traditional analytical methods the new methods usually accomplish the task through their computationally efficient mechanisms Computational intelligence methods such as evolutionary computation neural networks and fuzzy systems have attracted much attention in electric power systems Meanwhile modern electric power systems are becoming more and more complex in order to meet the growing electricity market In particular the grid complexity is continuously enhanced by the integration of intermittent wind power as well as the current restructuring efforts in electricity industry Quite often the traditional analytical methods become less efficient or even unable to handle this increased complexity As a result it is natural to apply computational intelligence as a powerful tool to deal with various important and pressing problems in the current wind power systems This book presents the state of the art development in the field of computational intelligence applied to wind power systems by reviewing the most up to date work and representative practical problems collecting contributions from leading experts in electrical engineering system engineering and other disciplines

**Computational Intelligence Applications In Smart Grids: Enabling Methodologies For Proactive And Self-organizing Power Systems** Ahmed F Zobaa, Alfredo Vaccaro, 2014-12-23 This book considers the emerging technologies and methodologies of the application of computational intelligence to smart grids From a conceptual point of view the smart grid is the convergence of information and operational technologies applied to the electric grid allowing sustainable options to customers and improved levels of security Smart grid technologies include advanced sensing systems two way high speed communications monitoring and enterprise analysis software and related services used to obtain location specific and real time actionable data for the provision of enhanced services for both system operators i e distribution automation asset management advanced metering infrastructure and end users i e demand side management demand response In this context a crucial issue is how to support the evolution of existing electrical grids from static hierarchal systems to self organizing highly scalable and pervasive networks Modern trends are oriented toward the employment of computational intelligence techniques for deploying advanced control protection and monitoring architectures that move away from the older centralized paradigm to systems distributed across the field with an increasing pervasion of intelligence devices The large scale deployment of computational intelligence technologies in smart grids could lead to a more efficient tasks distribution amongst energy resources and consequently to a sensible improvement of the electrical grid flexibility

**Artificial Intelligence Techniques in Power Systems Operations and Analysis** Nagendra Singh, Sitendra Tamrakar, Arvind Mewada, Sanjeev Kumar Gupta, 2023-08-16 An electrical power system consists of a large number of generation transmission and distribution subsystems It is a very large and complex system hence its installation and management are very difficult tasks An electrical system is essentially a very large network with very large data sets

Handling these data sets can require much time to analyze and subsequently implement An electrical system is necessary but also potentially very dangerous if not operated and controlled properly The demand for electricity is ever increasing so maintaining load demand without overloading the system poses challenges and difficulties Thus planning installing operating and controlling such a large system requires new technology Artificial intelligence AI applications have many key features that can support a power system and handle overall power system operations AI based applications can manage the large data sets related to a power system They can also help design power plants model installation layouts optimize load dispatch and quickly respond to control apparatus These applications and their techniques have been successful in many areas of power system engineering Artificial Intelligence Techniques in Power Systems Operations and Analysis focuses on the various challenges arising in power systems and how AI techniques help to overcome these challenges It examines important areas of power system analysis and the implementation of AI driven analysis techniques The book helps academicians and researchers understand how AI can be used for more efficient operation Multiple AI techniques and their application are explained Also featured are relevant data sets and case studies Highlights include Power quality enhancement by PV UPQC for non linear load Energy management of a nanogrid through flair of deep learning from IoT environments Role of artificial intelligence and machine learning in power systems with fault detection and diagnosis AC power optimization techniques Artificial intelligence and machine learning techniques in power systems automation *Artificial Intelligence in the Operation and Control of Digitalized Power Systems* Sasan Azad,Morteza Nazari-Heris,2024-11-15 This book covers the practical application of AI based methods in modern power systems The complexity of current power system operations has dramatically increased due to the higher penetration of renewable energy sources and power electronic components Therefore providing efficient techniques is essential for secure and clean power system operation This book focuses on the data driven operation of the digitalized power system using machine language ML First the basics of power system operation and control are presented covering various areas of system control and operation Next significant advances in modern power systems and their corresponding challenges are discussed and artificial intelligence AI powered techniques specifically machine learning are introduced to address these issues The book also explores AI powered applications in the operation of power systems These applications include various aspects of the data driven process in both situational awareness and control areas They are presented as practical examples indicating the implementation of an ML based method to solve operational problems Artificial Intelligence in the Operation and Control of Digitalized Power Systems is a valuable guide for students researchers and practicing engineers to AI based techniques and real world applications in power systems

Computational Intelligence Application in Electrical Engineering Marinko Barukcic,Nebojsa Raicević,Vasilija Sarac,2022-07-20 The Special Issue Computational Intelligence Application in Electrical Engineering deals with the application of computational intelligence techniques in various areas of electrical engineering The topics of computational

intelligence applications in smart power grid optimization power distribution system protection and electrical machine design and control optimization are presented in the Special Issue The co simulation approach to metaheuristic optimization methods and simulation tools for a power system analysis are also presented The main computational intelligence techniques evolutionary optimization fuzzy inference system and an artificial neural network are used in the research presented in the Special Issue The articles published in this issue present the recent trends in computational intelligence applications in the areas of electrical engineering

*Intelligent System Applications in Power Engineering* Loi Lei Lai, 1998-09-16 Cutting edge research indicates that evolutionary programming is set to emerge as the dominant optimisation technique in the fast changing power industry Combining theory and practice Intelligent System Applications in Power Engineering capitalises on the potential of neural networks and evolutionary computation to resolve real world power engineering problems such as load forecasting power system operation and planning optimisation Unlike existing optimisation methods these novel computational intelligence techniques provide power utilities with innovative solutions for improved performance Features include Introduction to evolutionary programming and neural networks serving as a foundation for later discussion of the benefits of hybrid systems Practical application of evolutionary programming to reactive power planning and dispatch for speedy cost effective increases in transmission capacity plus generator parameter estimation Examination of economic dispatch power flow control in FACTS and co generation scheduling and fault diagnosis for HVDC systems and transformers Consideration of power frequency and harmonic evaluation to maximise supply quality Employment of distance protection faulty section estimation and calculation of fault clearing time for transient stability assessment Graduate students in electric power engineering will value Lai s broad coverage of the applications of evolutionary programming and neural networks in the field This unique reference will be a boon to engineers computer application specialists consultants and utility managers wishing to understand the benefits intelligent systems can bring to the power industry

*Computational Intelligence Applications in Smart Grids* Ahmed F. Zobaa, Alfredo Vaccaro, 2014-12-24 This book considers the emerging technologies and methodologies of the application of computational intelligence to smart grids From a conceptual point of view the smart grid is the convergence of information and operational technologies applied to the electric grid allowing sustainable options to customers and improved levels of security Smart grid technologies include advanced sensing systems two way high speed communications monitoring and enterprise analysis software and related services used to obtain location specific and real time actionable data for the provision of enhanced services for both system operators i e distribution automation asset management advanced metering infrastructure and end users i e demand side management demand response In this context a crucial issue is how to support the evolution of existing electrical grids from static hierarchal systems to self organizing highly scalable and pervasive networks Modern trends are oriented toward the employment of computational intelligence techniques for deploying advanced control protection and monitoring architectures that move away from the older

centralized paradigm to systems distributed across the field with an increasing pervasion of intelligence devices The large scale deployment of computational intelligence technologies in smart grids could lead to a more efficient tasks distribution amongst energy resources and consequently to a sensible improvement of the electrical grid flexibility

**Philosophy of Artificial Intelligence and Its Place in Society** Moutinho, Luiz, Cavique, Luís, Bigné, Enrique, 2023-10-16 The early 2020s have been marked by a surge of interest in artificial intelligence AI and it has grown to be one of the hottest topics in computer science business technology research and educational technologies Despite AI winters in the 1970s and 1990s where interest and subsequently adequate funding for AI research ceased and as the technology and its usefulness become more perceptible often with brilliant results society is once again ready to investigate this powerful technology and its potential However a challenge arises when AI is called into question in an ethical context It is important that we explore how it can contribute to the resolution of ethical social and environmental issues and also to address growing concerns around AI developing emergent bias as well as the human application of AI for malicious purposes With recent AI based writing technologies concerns around academic integrity abound and challenge our perceptions of authenticity in writing A careful assessment of these technologies their usefulness and potential harm and strategic solutions to maintaining ethical standards and regulation of the technology is a necessity for the maintenance of civilized life amidst these tools Philosophy of Artificial Intelligence and Its Place in Society evaluates various aspects of artificial intelligence including the range of technologies their advantages and disadvantages and how AI systems operate Spanning from machine learning to deep learning philosophical insights societal concerns and the newest approaches to AI it helps to develop an appreciation for and breadth of knowledge across the full range of AI sub disciplines including neural networks evolutionary computation computer vision robotics expert systems speech processing and natural language processing Led Dr Luiz Moutinho of the University of Suffolk in the United Kingdom who has won several awards for his academic literature this book provides academic market scholars researchers and students of philosophy sociology economics and education as well as corporate scientists with a comprehensive collection of core research elements concepts advances applications evidence and outcomes related to artificial intelligence

*Artificial Intelligence in Real-Time Control* 1992 M.G. Rodd, H.B. Verbruggen, 2014-06-28 The symposium had two main aims to investigate the state of the art in the application of artificial intelligence techniques in real time control and to bring together control system specialists artificial intelligence specialists and end users Many professional engineers working in industry feel that the gap between theory and practice in applying control and systems theory is widening despite efforts to develop control algorithms Papers presented at the meeting ranged from the theoretical aspects to the practical applications of artificial intelligence in real time control Themes were the methodology of artificial intelligence techniques in control engineering the application of artificial intelligence techniques in different areas of control and hardware and software requirements This symposium showed that there exist alternative possibilities for control based

on artificial intelligence techniques      *Computational Intelligence and Applications* Piotr S. Szczepaniak,1999 The material presented in the book is divided into two main parts Keynotes and Case Studies Five keynotes written by W Pedrycz D Dubois and H Prade M M Gupta P M Frank and T Kaczorek deal with introduction into the concept and basic technologies of computational intelligence CI role of fuzzy logic in information engineering paradigms of fuzzy neural computing intelligent methods in fault diagnosis of technical plants and with models of two dimensional 2D systems which are useful in analysis of methods manifesting the learning ability respectively The second part provides the reader with a sampling of various applications of the methods neural networks genetic algorithms fuzzy and evolutionary systems being the building blocks of the CI However a few contributions exceed this rather stiff frame of CI definition      *2nd International Conference on Advances in Power System Control, Operation & Management* ,1994      **Proceedings of the International Workshop on Artificial Intelligence for Industrial Applications** ,1988      **Control of Power Plants and Power Systems** R. Canales-Ruiz,1996 Paperback These proceedings contain the papers presented at the IFAC Symposium on Control of Power Plants and Power Systems SIPOWER 95 held in Cancun Mexico on 6 8 December 1995 The aim of the symposium was to lessen the gap between academic groups and industry by using the obvious interaction between power plants and power networks and the tools common to both to foster communication and encourage a more synergetic relationship The symposium was divided equally between power plants and power systems and 104 papers were presented representing all five continents and reflecting the international nature of the meeting The technical sessions were organized following two main criteria the technology used and the object being studied Many papers fell into both categories and various topics were covered but artificial intelligence was by far the most pervasive There were also two plenary sessions on Control Centers and on Power Plant      **Proceedings** ,1992      **Applications of Artificial Intelligence 1993 : Knowledge-based Systems in Aerospace and Industry** Ramasamy Uthurusamy,1993      *Artificial Intelligence Applications in Research and Development* Richard Kendall Miller,Terri C. Walker,1988      *Computational Intelligence* ,2001

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