

## HUMAN INTELLIGENCE

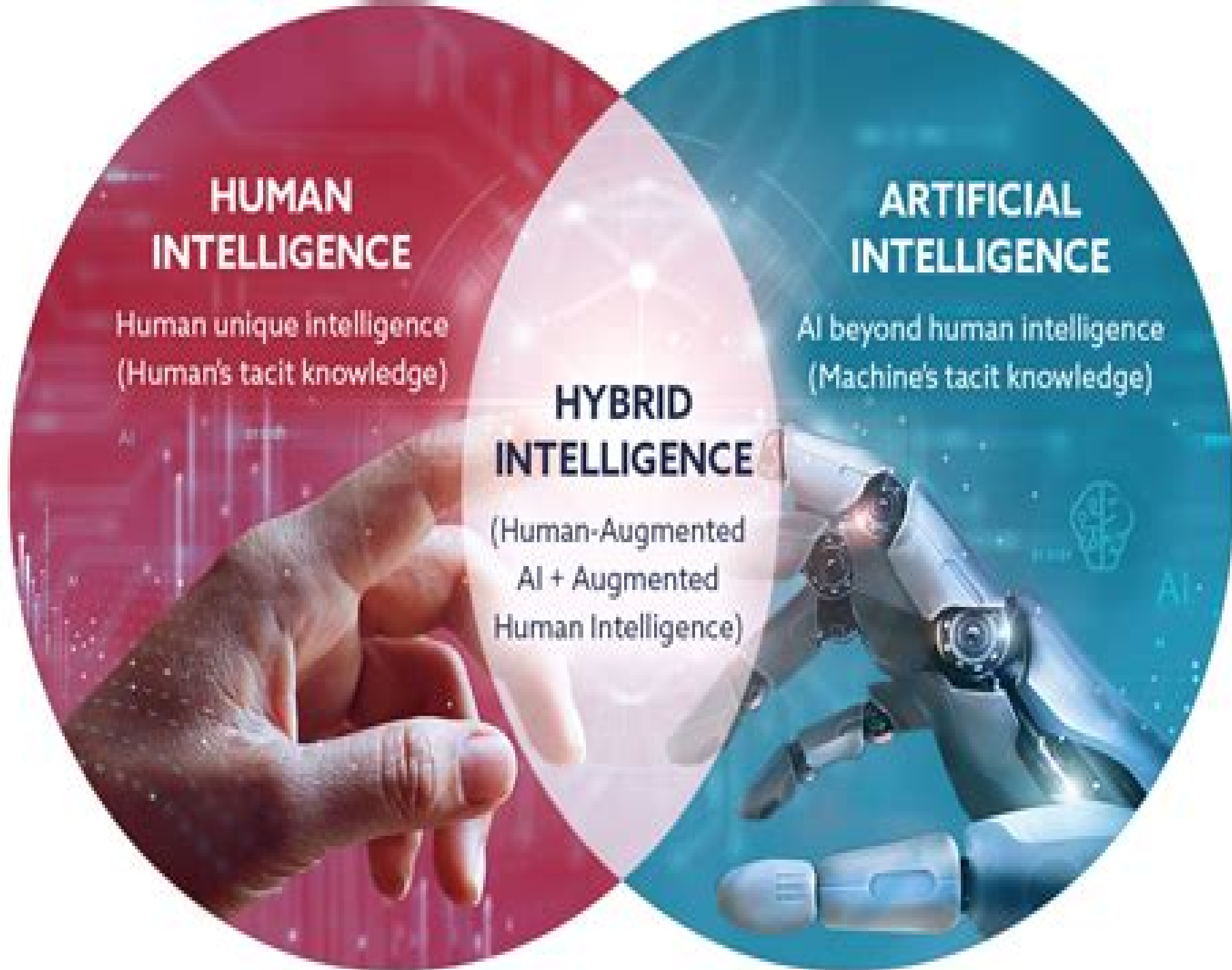
Human unique intelligence  
(Human's tacit knowledge)

## ARTIFICIAL INTELLIGENCE

AI beyond human intelligence  
(Machine's tacit knowledge)

## HYBRID INTELLIGENCE

(Human-Augmented  
AI + Augmented  
Human Intelligence)



# Artificial Intelligence And Hybrid Systems

**George A. Tsihrintzis, Maria  
Virvou, Haris Doukas, Lakhmi C. Jain**



## **Artificial Intelligence And Hybrid Systems:**

**Artificial Intelligence and Hybrid Systems** Claudio Rocha (umetna inteligencia.), Fernando Akune, Ahmed El-Shafie, 2013

**Artificial Intelligence and Hybrid Systems** Claudio Rocha, Fernando Akune, Ahmed El-Shafie, 2013-07-17 The use of artificial intelligence and hybrid systems has increased dramatically due to their ability in handling real world problems involving uncertainty vagueness and high complexity The development of these systems has attracted the interest of the Artificial Intelligence community and established as a promising field of research In order to present the ideas and practices of the hybridization process of intelligent systems in this book we included some recent and interesting studies on this topic Chapter 1 thoroughly analyzes the behaviors of perceptron including solution space for every possible patterns and convergence trajectories toward solutions as well as briefly discusses the behaviors of multiple perceptrons In Chapter 2 accurate as well as efficient non invasive computational intelligence approaches different artificial neural network models and a Sugeno type fuzzy logic inference system are implemented for the classification of two phase flow in boiling water reactors Chapter 3 contains a nice compilation of indifference zone selection procedures as they apply to reliability analysis many of those results come from the authors own research Chapter 4 discusses the software project design with the implementation of product line concepts to meet the customers demands for the production of high quality software applications in shortest possible time within low budget and using less number of resources Chapter 5 proposes integration of deterministic and probabilistic for improvement of human reliability analysis The operator action success criteria time windows needed for human reliability analysis were determined through deterministic safety analysis Chapter 6 presents a scheme to produce Network Anomaly Detection models based on Evolutionary Computation The models are Hidden Markov Models produced automatically with no human intervention Chapter 7 proposes an integrated online system which ranks the relational data A compressed data structure is introduced to encode the dominant relationship of the data Efficient querying strategies and updating scheme are devised to facilitate the ranking process Chapter 8 proposes a method to combine the output of dependency parsers trained with the same parser generator but with specifically selected corpora Chapter 9 proposes a new optimization model for the unit commitment problem using a stochastic hybrid algorithm combining simulated annealing and evolutionary algorithm Chapter 10 develops neural network NN models to predict 85th percentile speed for two lane rural highways in Oklahoma Several input parameters namely physical characteristics of road traffic parameters pavement condition indices and accident data were considered in developing the models In Chapter 11 a comparative study between micro controller and computer for various network types is given and an implementation of the a Radial Basis Function RBF network on the low end and inexpensive micro controller is proposed Chapter 12 provides an improved and updated survey of the recent researches and patents which concern about statistical background modeling and subtraction Chapter 13 offers an outline of the hybrid approach the design methodology of the INVENTS system as well as its

structure and user interface In Chapter 14 it presents and discusses applications of the artificial neural network approach for improving equivalent circuit based transistor noise models in terms of the accuracy and the range of validity Chapter 15 presents a simple yet efficient approach to improve IR on the web by reusing the information contained in the past user queries as the expansion for the initial query

**Hybrid Intelligent Systems** Larry R. Medsker, 2012-12-06 Hybrid Intelligent Systems summarizes the strengths and weaknesses of five intelligent technologies fuzzy logic genetic algorithms case based reasoning neural networks and expert systems reviewing the status and significance of research into their integration Engineering and scientific examples and case studies are used to illustrate principles and application development techniques The reader will gain a clear idea of the current status of hybrid intelligent systems and discover how to choose and develop appropriate applications The book is based on a thorough literature search of recent publications on research and development in hybrid intelligent systems the resulting 50 page reference section of the book is invaluable The book starts with a summary of the five major intelligent technologies and of the issues in and current status of research into them Each subsequent chapter presents a detailed discussion of a different combination of intelligent technologies along with examples and case studies Four chapters contain detailed case studies of working hybrid systems The book enables the reader to Describe the important concepts strengths and limitations of each technology Recognize and analyze potential problems with the application of hybrid systems Choose appropriate hybrid intelligent solutions Understand how applications are designed with any of the approaches covered Choose appropriate commercial development shells or tools An invaluable reference source for those who wish to apply intelligent systems techniques to their own problems

**Hybrid Architectures for Intelligent Systems** Abraham Kandel, Gideon Langholz, 1992-02-21 Hybrid architecture for intelligent systems is a new field of artificial intelligence concerned with the development of the next generation of intelligent systems This volume is the first book to delineate current research interests in hybrid architectures for intelligent systems The book is divided into two parts The first part is devoted to the theory methodologies and algorithms of intelligent hybrid systems The second part examines current applications of intelligent hybrid systems in areas such as data analysis pattern classification and recognition intelligent robot control medical diagnosis architecture wastewater treatment and flexible manufacturing systems Hybrid Architectures for Intelligent Systems is an important reference for computer scientists and electrical engineers involved with artificial intelligence neural networks parallel processing robotics and systems architecture

**Artificial Intelligence Applications and Innovations** Ilias Maglogiannis, John Macintyre, Lazaros Iliadis, 2021-06-22 This book constitutes the refereed proceedings of the 17th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations AIAI 2021 held virtually and in Hersonissos Crete Greece in June 2021 The 50 full papers and 11 short papers presented were carefully reviewed and selected from 113 submissions They cover a broad range of topics related to technical legal and ethical aspects of artificial intelligence systems and their applications and are organized in the

following sections adaptive modeling neuroscience AI in biomedical applications AI impacts big data automated machine learning autonomous agents clustering convolutional NN data mining word counts deep learning fuzzy modeling hyperdimensional computing Internet of Things Internet of energy machine learning multi agent systems natural language recommendation systems sentiment analysis and smart blockchain applications cybersecurity Chapter Improving the Flexibility of Production Scheduling in Flat Steel Production Through Standard and AI based Approaches Challenges and Perspective is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

**Hybrid Information Systems** Ramakant Bhardwaj,Pushan Kumar Dutta,Pethuru Raj,Abhishek Kumar,Kavita Saini,Alfonso González Briones,Mohammed K.A. Kaabar,2024-07-22 The book provides comprehensive and cognitive approach to building and deploying sophisticated information systems The book utilizes non linear optimization techniques fuzzy logic and rough sets to model various real world use cases for the digital era The hybrid information system modeling handles both qualitative and quantitative data and can effectively handle uncertainty and imprecision in the data The combination of non linear optimization mechanisms fuzzy logic and rough sets provides a robust foundation for next generation information systems that can fulfill the demands of adaptive aware and adroit software applications for the knowledge era The book emphasizes the importance of the hybrid approach which combines the strengths of both mathematical and AI techniques to achieve a more comprehensive and effective modeling process Hybrid information system modeling techniques combine different approaches such as fuzzy logic rough sets and neural networks to create models that can handle the complexity and uncertainty of real world problems These techniques provide a powerful tool for modeling and analyzing complex systems and the applications of hybrid information system modeling demonstrate their potential for solving real world problems in various fields

**Advances in Artificial Intelligence-Empowered Decision Support Systems** George A. Tsihrintzis,Maria Virvou,Haris Doukas,Lakhmi C. Jain,2024-06-27 Decision Support Systems DSSs are Software and Information Systems which make use of various data and business models employ advanced data analytics procedures and access extensive databases and data warehouses to facilitate with a decision process or with organizational issues DSSs have proven to be particularly useful at the strategic level while they usually require only limited computer proficiency skills from their users Although DSSs have been under development and use for several decades recent advances in both Software Engineering technologies and Artificial Intelligence AI methodologies have heralded new avenues for research and development in this field This book exposes its readers to some of the most significant Advances in Artificial Intelligence Empowered Decision Support Systems It consists of an editorial note and an additional sixteen 16 chapters all invited from authors who work on the corresponding chapter theme and are recognized for their significant research contributions The chapters are organized into five parts namely i AI Empowered DSS in Medical Diagnosis and Biology ii AI Empowered DSS in Healthcare and Health Insurance iii AI Empowered DSS in Urban Matters iv Various Applications of AI

Empowered DSS and v Novel AI Empowered Methodologies in Decision Making Targeted toward academics researchers practitioners and students in Computer Science Artificial Intelligence and Management this book is also accessible to individuals from other disciplines interested in the cutting edge developments of AI empowered DSS technologies An extensive list of bibliographic references at the end of each chapter guides the readers to probe deeper into the application areas of interest to them

**Intelligent Hybrid Systems** Suran Goonatilake, Sukhdev Khebbal, 1995 This book provides a definition of hybrid systems summarizes the current state of the art and presents contributions that detail innovative methods for integrating different intelligent techniques The book is intended to equip researchers applications developers and managers with key reference and resource material for the successful development of hybrid systems

**Artificial Intelligence and Expert Systems** Mrs.C.Revathi, Mrs.R.Muthuramya, 2025-08-28 Authors Mrs C Revathi Assistant Professor Department of Commerce with Computer Applications A K D Dharma Raja Women s College Rajapalayam Tamil Nadu India Mrs R Muthuramya Assistant Professor Department of Commerce with Computer Applications A K D Dharma Raja Women s College Rajapalayam Tamil Nadu India

**Advanced Methodologies and Technologies in Artificial Intelligence, Computer Simulation, and Human-Computer Interaction** Khosrow-Pour, D.B.A., Mehdi, 2018-09-28 As modern technologies continue to develop and evolve the ability of users to adapt with new systems becomes a paramount concern Research into new ways for humans to make use of advanced computers and other such technologies through artificial intelligence and computer simulation is necessary to fully realize the potential of tools in the 21st century Advanced Methodologies and Technologies in Artificial Intelligence Computer Simulation and Human Computer Interaction provides emerging research in advanced trends in robotics AI simulation and human computer interaction Readers will learn about the positive applications of artificial intelligence and human computer interaction in various disciplines such as business and medicine This book is a valuable resource for IT professionals researchers computer scientists and researchers invested in assistive technologies artificial intelligence robotics and computer simulation

**Artificial Intelligence & Blockchain in Cyber Physical Systems** Muhammad Arif, Valentina Emilia Balas, Tabrez Nafis, Nawab Muhammad Faseeh Qureshi, Samar Wazir, Ibrar Hussain, 2023-12-01 This book explores the intersection of blockchain technology artificial intelligence AI and cyber physical systems CPS It discusses how these technologies can be integrated to create secure and efficient CPS solutions The book covers various topics including the basics of blockchain and AI their applications in CPS and the challenges of integrating these technologies It also explores real world examples of how blockchain and AI are used in CPS such as smart cities transportation systems and healthcare The authors delve into the technical aspects of how blockchain and AI can be used together to enhance CPS security data privacy and interoperability They also discuss the potential benefits and limitations of these technologies and provide insights into the future of CPS Overall this book provides a comprehensive overview of the use of blockchain and AI in CPS making it a valuable resource for researchers professionals and students in the fields of

computer science engineering and cybersecurity      Artificial Intelligence and Data Analytics for Energy Exploration and Production Fred Aminzadeh,Cenk Temizel,Yasin Hajizadeh,2022-08-26 ARTIFICIAL INTELLIGENCE AND DATA ANALYTICS FOR ENERGY EXPLORATION AND PRODUCTION This groundbreaking new book is written by some of the foremost authorities on the application of data science and artificial intelligence techniques in exploration and production in the energy industry covering the most comprehensive and updated new processes concepts and practical applications in the field The book provides an in depth treatment of the foundations of Artificial Intelligence AI Machine Learning and Data Analytics DA It also includes many of AI DA applications in oil and gas reservoirs exploration development and production The book covers the basic technical details on many tools used in smart oil fields This includes topics such as pattern recognition neural networks fuzzy logic evolutionary computing expert systems artificial intelligence machine learning human computer interface natural language processing data analytics and next generation visualization While theoretical details will be kept to the minimum these topics are introduced from oil and gas applications viewpoints In this volume many case histories from the recent applications of intelligent data to a number of different oil and gas problems are highlighted The applications cover a wide spectrum of practical problems from exploration to drilling and field development to production optimization artificial lift and secondary recovery Also the authors demonstrate the effectiveness of intelligent data analysis methods in dealing with many oil and gas problems requiring combining machine and human intelligence as well as dealing with linguistic and imprecise data and rules      **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      **Fundamentals of the New Artificial Intelligence** Toshinori Munakata,2008-01-01 The book covers the most essential and widely employed material in each area particularly the material important for real world applications Our goal is not to cover every latest progress in the fields nor

to discuss every detail of various techniques that have been developed New sections subsections added in this edition are Simulated Annealing Section 3 7 Boltzmann Machines Section 3 8 and Extended Fuzzy if then Rules Tables Sub section 5 5 3 Also numerous changes and typographical corrections have been made throughout the manuscript The Preface to the first edition follows General scope of the book Artificial intelligence AI as a field has undergone rapid growth in diversification and practicality For the past few decades the repertoire of AI techniques has evolved and expanded Scores of newer fields have been added to the traditional symbolic AI Symbolic AI covers areas such as knowledge based systems logical reasoning symbolic machine learning search techniques and natural language processing The newer fields include neural networks genetic algorithms or evolutionary computing fuzzy systems rough set theory and chaotic systems *Artificial Intelligence Systems Based on Hybrid Neural Networks* Michael Zgurovsky, Victor Sineglazov, Elena Chumachenko, 2020-09-03 This book is intended for specialists as well as students and graduate students in the field of artificial intelligence robotics and information technology It is will also appeal to a wide range of readers interested in expanding the functionality of artificial intelligence systems One of the pressing problems of modern artificial intelligence systems is the development of integrated hybrid systems based on deep learning Unfortunately there is currently no universal methodology for developing topologies of hybrid neural networks HNN using deep learning The development of such systems calls for the expansion of the use of neural networks NS for solving recognition classification and optimization problems As such it is necessary to create a unified methodology for constructing HNN with a selection of models of artificial neurons that make up HNN gradually increasing the complexity of their structure using hybrid learning algorithms **Artificial Intelligence and Expert Systems for Engineers** C.S. Krishnamoorthy, S. Rajeev, 2018-04-24 This book provides a comprehensive presentation of artificial intelligence AI methodologies and tools valuable for solving a wide spectrum of engineering problems What s more it offers these AI tools on an accompanying disk with easy to use software Artificial Intelligence and Expert Systems for Engineers details the AI based methodologies known as Knowledge Based Expert Systems KBES Design Synthesis Design Critiquing and Case Based Reasoning KBES are the most popular AI based tools and have been successfully applied to planning diagnosis classification monitoring and design problems Case studies are provided with problems in engineering design for better understanding of the problem solving models using the four methodologies in an integrated software environment Throughout the book examples are given so that students and engineers can acquire skills in the use of AI based methodologies for application to practical problems ranging from diagnosis to planning design and construction and manufacturing in various disciplines of engineering Artificial Intelligence and Expert Systems for Engineers is a must have reference for students teachers research scholars and professionals working in the area of civil engineering design in particular and engineering design in general **Advances in AI for Simulation and Optimization of Energy Systems** Qasem Abu Al-Haija, Omar Mohamed, Wejdan Abu Elhaija, 2025-03-20 Advances in AI for Simulation and Optimization of

Energy Systems explores AI's groundbreaking role in the future of energy. As the demand for cleaner, more efficient energy systems grows, AI-driven methodologies are leading the way in simulating and optimizing critical processes across the power generation, transmission, and storage sectors. Whether applied to traditional power grids, renewable energy systems, or energy markets, AI techniques such as neural networks, reinforcement learning, fuzzy logic, and metaheuristic optimization are revolutionizing how energy systems are modeled and managed. This comprehensive volume offers in-depth chapters on AI-driven simulation and optimization strategies, case studies that demonstrate real-world applications of AI in energy systems, an examination of the ethical concerns and legal frameworks surrounding AI, cutting-edge methodologies for improving energy technologies' accuracy, efficiency, and performance, and bringing together leading researchers and practitioners in AI and energy systems. This book is an invaluable resource for academics, engineers, and professionals who want to stay ahead of the curve in this rapidly evolving field.

*Artificial Intelligence for Cloud & Edge Computing* Jayaraman Kumarappan, Dr. S. Sathya Franklin, Mrs. S.M. Hemalatha, Mrs. G. Usha, Dr. Sudha Muthusamy R, 2024-11-22. This book explores the integration of AI with cloud and edge computing, highlighting how these technologies transform data processing and decision-making. The AI models are optimized for distributed environments, addressing challenges like latency, security, and scalability. It covers key applications across industries, examines emerging trends, and provides insights into the future of intelligent systems. Designed for professionals, researchers, and students, it offers a comprehensive understanding of how AI enhances computing efficiency at both centralized cloud infrastructures and decentralized edge devices.

*Artificial Intelligence in Modern Healthcare System* Ashish Kumar, Divya Singh, 2025-09-26. The book explores advancements in medical system design through the use of recent technologies, particularly artificial intelligence. It analyzes the accuracy of predictions suitable for real-time deployment of these methodologies. The text covers a wide range of prediction and segmentation algorithms based on machine learning and deep learning techniques. These approaches are applied in the analysis of critical diseases such as mental disorders, diabetic retinopathy, cardiovascular disorders, breast cancer, and many others.

**Hybrid Artificial Intelligent Systems** Emilio Corchado, 2011-05-16. The two LNAI volumes 6678 and 6679 constitute the proceedings of the 6th International Conference on Hybrid Artificial Intelligent Systems (HAIS 2011) held in Wroclaw, Poland, in May 2011. The 114 papers published in these proceedings were carefully reviewed and selected from 241 submissions. They are organized in topical sessions on hybrid intelligence systems, logistics and intelligent optimization, metaheuristics for combinatorial optimization and modelling complex systems, hybrid systems for context-based information fusion, methods of classifier fusion, intelligent systems for data mining and applications, systems of man and cybernetics, hybrid artificial intelligence systems in management of production systems, hybrid artificial intelligent systems for medical applications, and hybrid intelligent approaches in cooperative multi-robot systems.

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