

HUMAN INTELLIGENCE

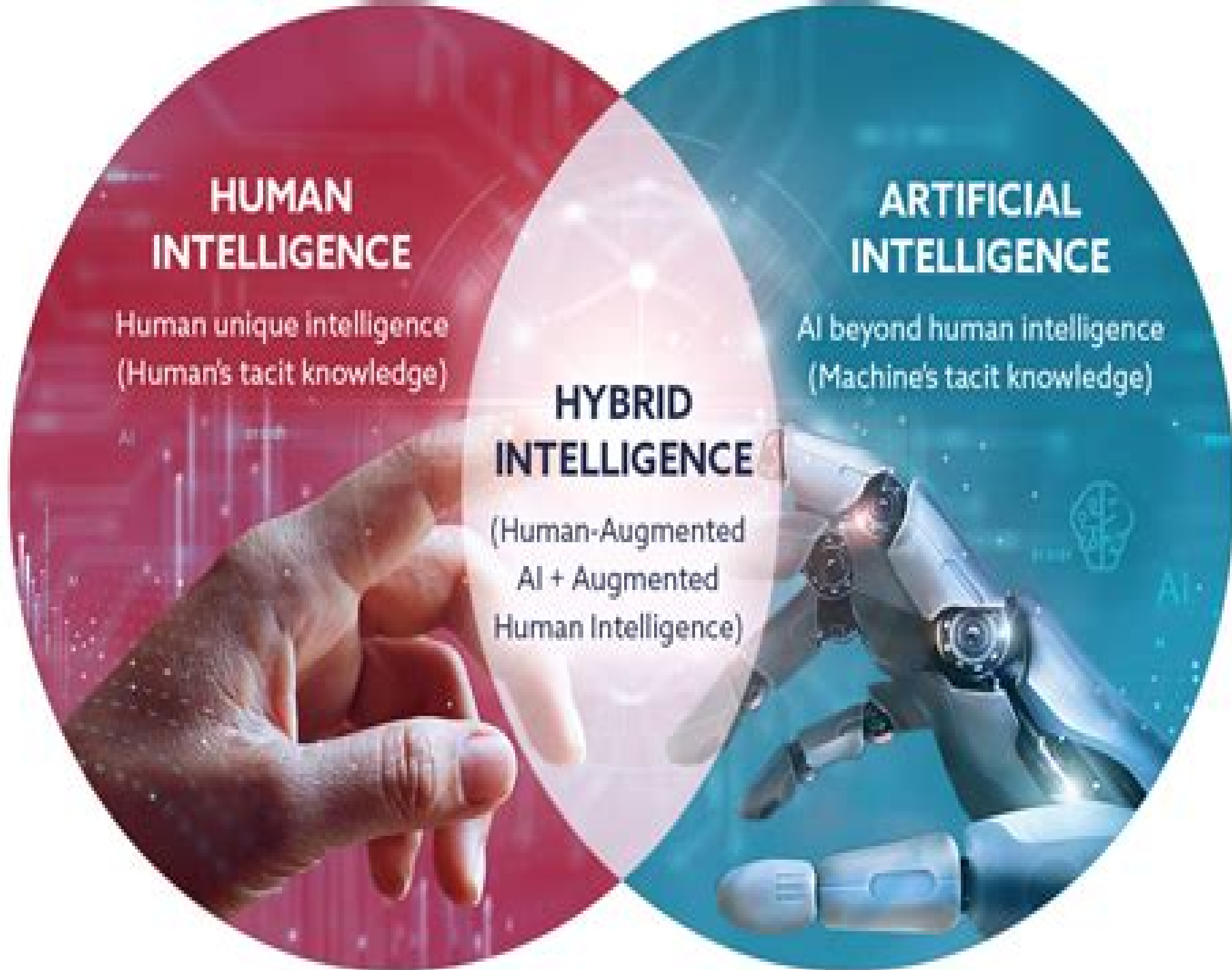
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(Human's tacit knowledge)

ARTIFICIAL INTELLIGENCE

AI beyond human intelligence
(Machine's tacit knowledge)

HYBRID INTELLIGENCE

(Human-Augmented
AI + Augmented
Human Intelligence)



Artificial Intelligence And Hybrid Systems

**Ramakant Bhardwaj,Pushan Kumar
Dutta,Pethuru Raj,Abhishek
Kumar,Kavita Saini,Alfonso González
Briones,Mohammed K.A. Kaabar**

Artificial Intelligence And Hybrid Systems:

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

Artificial Intelligence Applications for a Sustainable Environment Mahmoud Nasr, Abdelazim Negm, Lai Peng, 2025-10-22 This book explores the applications of artificial intelligence AI in environmental protection with a focus on pollution monitoring and mitigation Offering an authoritative perspective on circular and green economies through strategic AI deployment it covers topics like risk management for human health impacts optimization of water engineering processes and real time monitoring for contamination detection Particular attention is given to water quality related concerns and optimizing operational parameters critical for wastewater treatment In this book readers will discover how AI is applied for early warning systems detecting potential contamination in aquatic terrestrial and atmospheric environments Expert contributors discuss the integration of AI with environmental sustainability the Internet of Things IoT machine learning and automated monitoring techniques The book also highlights the role of AI supported low cost smart sensors in environmental monitoring and climate change mitigation Other key topics include intelligent control systems for wireless monitoring of waste management in green cities and AI's potential in diagnosing managing and forecasting air pollution related diseases for atmospheric sustainability The book concludes with recommendations for maintaining a circular and green economy

Given its breadth this book is an indispensable resource for researchers scholars and practitioners interested in understanding the transformative role of AI in environmental engineering and its contribution to sustainable development

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 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

Hybrid Architectures for Intelligent Systems Abraham Kandel, Gideon Langholz, 1992 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

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