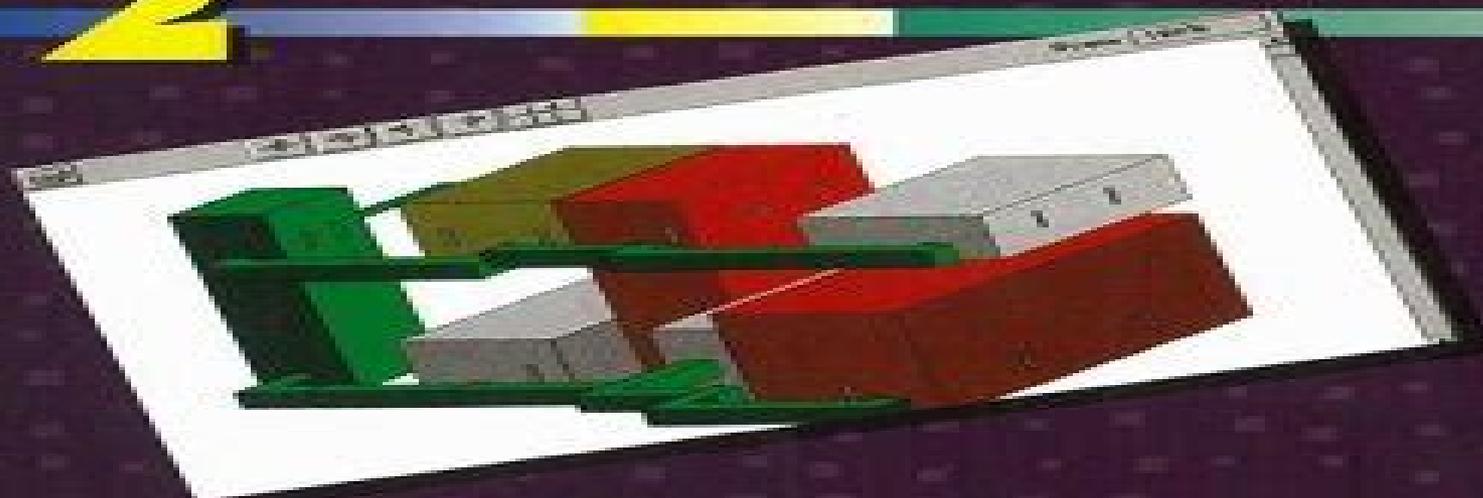


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# ARTIFICIAL INTELLIGENCE IN THE PETROLEUM INDUSTRY

## SYMBOLIC AND COMPUTATIONAL APPLICATIONS

# 2



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# Artificial Intelligence In The Petroleum Industry Symbolic And Computational Applications

**Jay Liebowitz**



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**Artificial Intelligence in the Petroleum Industry** Bertrand Braunschweig, Ron Day, 1995 [Artificial Intelligence in the Petroleum Industry](#) Bertrand Braunschweig, B. A. Bremdal, 1996 *Geological Prior Information* Andrew Curtis, Rachel Wood, 2004 Geological prior information represents a new and emerging field within the geosciences Prior information is the term used to describe previously existing knowledge that can be brought to bear on a new problem This volume describes a range of methods that can be used to find solutions to practical and theoretical problems using geological prior information and the nature of geological information that can be so employed , *10th International Conference on Theory and Application of Soft Computing, Computing with Words and Perceptions - ICSCCW-2019* Rafik A. Aliev, Janusz Kacprzyk, Witold Pedrycz, Mo Jamshidi, Mustafa B. Babanli, Fahreddin M. Sadikoglu, 2019-11-19 This book presents the proceedings of the 10th Conference on Theory and Applications of Soft Computing Computing with Words and Perceptions ICSCCW 2019 held in Prague Czech Republic on August 27 28 2019 It includes contributions from diverse areas of soft computing and computing with words such as uncertain computation decision making under imperfect information neuro fuzzy approaches deep learning natural language processing and others The topics of the papers include theory and applications of soft computing information granulation computing with words computing with perceptions image processing with soft computing probabilistic reasoning intelligent control machine learning fuzzy logic in data analytics and data mining evolutionary computing chaotic systems soft computing in business economics and finance fuzzy logic and soft computing in earth sciences fuzzy logic and soft computing in engineering fuzzy logic and soft computing in material sciences soft computing in medicine biomedical engineering and pharmaceutical sciences Showcasing new ideas in the field of theories of soft computing and computing with words and their applications in economics business industry education medicine earth sciences and other fields it promotes the development and implementation of these paradigms in various real world contexts This book is a useful guide for academics practitioners and graduates [The Handbook of Applied Expert Systems](#) Jay Liebowitz, 2019-07-23 The Handbook of Applied Expert Systems is a landmark work dedicated solely to this rapidly advancing area of study Edited by Jay Liebowitz a professor author and consultant known around the world for his work in the field this authoritative source covers the latest expert system technologies applications methodologies and practices The book features contributions from more than 40 of the world's foremost expert systems authorities in industry government and academia The Handbook is organized into two major sections The first section explains expert systems technologies while the second section focuses on applied examples in a wide variety of industries Key topics covered include fuzzy systems genetic algorithm development machine learning knowledge representation and much more **Rob Milne: A Tribute to a Pioneering AI Scientist, Entrepreneur and Mountaineer** A. Bundy, S. Wilson, 2006-07-27 Rob Milne was a remarkable man He died of a heart attack on the 5th of June 2005 while climbing Mount Everest in Nepal He was a hi tech entrepreneur

an AI researcher and a passionate mountaineer This work commemorates and celebrates the life of Rob Milne and covers various facets of Rob Milne s life

**Soft Computing for Reservoir Characterization and Modeling** Patrick Wong,Fred Aminzadeh,Masoud Nikravesh,2013-11-11 In the middle of the 20th century Genrich Altshuller a Russian engineer analysed hundreds of thousands of patents and scientific publications From this analysis he developed TRIZ G Altshuller 40 Principles TRIZ Keys to Technical Innovation TRIZ Tools Volume 1 First Edition Technical Innovation Center Inc Worcester MA January 1998 Y Salamatov TRIZ The Right Solution at the Right Time A Guide to Innovative Problem Solving Insytec B V 1999 the theory of inventive problem solving together with a series of practical tools for helping engineers solving technical problems Among these tools and theories the substance field theory gives a structured way of representing problems the patterns of evolution show the lifecycle of technical systems the contradiction matrix tells you how to resolve technical contradictions using the forty principles that describe common ways of improving technical systems For example if you want to increase the strength of a device without adding too much extra weight to it the contradiction matrix tells you that you can use Principle 1 Segmentation or Principle 8 Counterweight or Principle 15 Dynamicity or Principle 40 Composite Materials I really like two particular ones Principle 1 Segmentation and Principle 15 Dynamicity Segmentation shows how systems evolve from an initial monolithic form into a set of independent parts then eventually increasing the number of parts until each part becomes small enough that it cannot be identified anymore

**Machine Intelligence** Peter Sincak,Kaoru Hirota,J n Vas?c? k,2004 This book brings together the contributions of leading researchers inthe field of machine intelligence covering areas such as fuzzy logic neural networks evolutionary computation and hybrid systems There is wide coverage of the subject from simple tools through industrial applications to applications in high level intelligentsystems which are biologically motivated such as humanoid robots andselected parts of these systems like the visual cortex Readers willgain a comprehensive overview of the issues in machine intelligence afield which promises to play a very important role in the informationsociety of the future

*Intelligent Information Processing V* Zhongzhi Shi,Sunil Vadera,Agnar Aamodt,David Leake,2010-10-05 This volume comprises the 6th IFIP International Conference on Intelligent Infor tion Processing As the world proceeds quickly into the Information Age it encounters both successes and challenges and it is well recognized nowadays that intelligent information processing provides the key to the Information Age and to mastering many of these challenges Intelligent information processing supports the most vanced productive tools that are said to be able to change human life and the world itself However the path is never a straight one and every new technology brings with it a spate of new research problems to be tackled by researchers as a result we are not running out of topics rather the demand is ever increasing This conference provides a forum for engineers and scientists in academia and industry to present their latest research findings in all aspects of intelligent information processing This is the 6th IFIP International Conference on Intelligent Information Processing We received more than 50 papers of which 35 papers are included in this program as regular papers and 4 as short papers We

are grateful for the dedicated work of both the authors and the referees and we hope these proceedings will continue to bear fruit over the years to come All papers submitted were reviewed by two referees A conference such as this cannot succeed without help from many individuals who contributed their valuable time and expertise

*Applications of Artificial Intelligence (AI) and Machine Learning (ML) in the Petroleum Industry* Manan Shah, Ameya Kshirsagar, Jainam Panchal, 2022-09-02 Today raw data on any industry is widely available With the help of artificial intelligence AI and machine learning ML this data can be used to gain meaningful insights In addition as data is the new raw material for today's world AI and ML will be applied in every industrial sector Industry 4.0 mainly focuses on the automation of things From that perspective the oil and gas industry is one of the largest industries in terms of economy and energy Applications of Artificial Intelligence AI and Machine Learning ML in the Petroleum Industry analyzes the use of AI and ML in the oil and gas industry across all three sectors namely upstream midstream and downstream It covers every aspect of the petroleum industry as related to the application of AI and ML ranging from exploration data management extraction processing real time data analysis monitoring cloud based connectivity system and conditions analysis to the final delivery of the product to the end customer while taking into account the incorporation of the safety measures for a better operation and the efficient and effective execution of operations This book explores the variety of applications that can be integrated to support the existing petroleum and adjacent sectors to solve industry problems It will serve as a useful guide for professionals working in the petroleum industry industrial engineers AI and ML experts and researchers as well as students

Journal of Petroleum Technology, 1996-07 Natural Gas Alexandre Rojey, 1962 *Inverse Stochastic Model...* Mickaële Le Ravalec, In order to understand fluid flows in underground porous formations engineers need to produce models in the form of grid systems populated with physical properties such as permeability and porosity This procedure is of crucial importance but it is also problematic It is crucially important in determining where and how fluids flow reservoir or aquifer modeling is used to plan field development optimize oil production with the judicious selection of well locations assess contaminant migration design capture zones and so on It is problematic because there is never enough data available to describe with certainty the spatial distribution of permeability and porosity on a given scale Given the complex heterogeneity of natural porous media the fundamental question is how can this reality be incorporated in models This textbook refers to geostatistics and optimization to review the whole workflow for modern reservoir characterization and to provide an original solution A CD ROM with a software called GO is supplied with this book It provides tools to answer the illustrative exercises proposed and to help the reader to develop intuitive understanding This book is written at a comprehensible level for students who have had calculus linear algebra and some exposure to differential equations It should also serve already practicing engineers in oil reservoirs environment and hydrology

*Advances in Intelligent Data Analysis* David J Hand, Joost N. Kok, Michael R. Berthold, 2003-05-21 This book constitutes the refereed proceedings of the Third International Symposium on Intelligent Data

Analysis IDA 99 held in Amsterdam The Netherlands in August 1999 The 21 revised full papers and 23 posters presented in the book were carefully reviewed and selected from a total of more than 100 submissions The papers address all current aspects of intelligent data analysis they are organized in sections on learning visualization classification and clustering integration applications and media mining

*AI and Digital Technology for Oil and Gas Fields* Niladri Kumar Mitra, 2024-10-18 The book essentially covers the growing role of AI in the oil and gas industry including digital technologies used in the exploration phase customer sales service and cloud based digital storage of reservoir simulation data for modeling It starts with the description of AI systems and their roles within the oil and gas industry including the agent based system the impact of industrial IoT on business models and the ethics of robotics in AI implementation It discusses incorporating AI into operations leading to the reduction of operating costs by localizing control functions remote monitoring and supervision Features of this book are given as follows It is an exclusive title on the application of AI and digital technology in the oil and gas industry It explains cloud data management in reservoir simulation It discusses intelligent oil and gas well completion in detail It covers marketing aspects of oil and gas business during the exploration phase It reviews development of digital systems for business purposes This book is aimed at professionals in petroleum and chemical engineering technology and engineering management

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