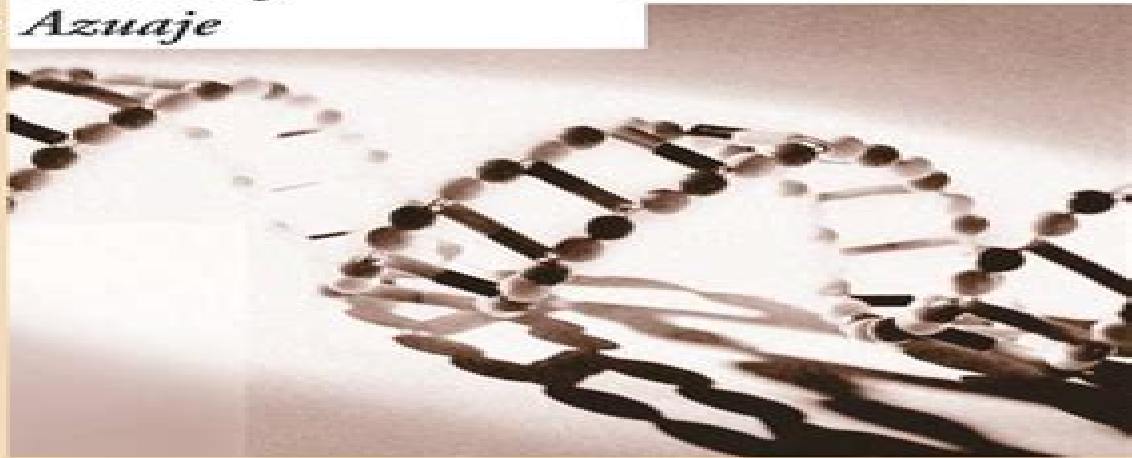


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Artificial Intelligence Theory, Models, and Applications P Kaliraj,T. Devi,2021-10-21 This book examines the fundamentals and technologies of Artificial Intelligence AI and describes their tools challenges and issues It also explains relevant theory as well as industrial applications in various domains such as healthcare economics education product development agriculture human resource management environmental management and marketing The book is a boon to students software developers teachers members of boards of studies and researchers who need a reference resource on artificial intelligence and its applications and is primarily intended for use in courses offered by higher education institutions that strive to equip their graduates with Industry 4 0 skills FEATURES Gender disparity in the enterprises involved in the development of AI based software development as well as solutions to eradicate such gender bias in the AI world A general framework for AI in environmental management smart farming e waste management and smart energy optimization The potential and application of AI in medical imaging as well as the challenges of AI in precision medicine AI s role in the diagnosis of various diseases such as cancer and diabetes The role of machine learning models in product development and statistically monitoring product quality Machine learning to make robust and effective economic policy decisions Machine learning and data mining approaches to provide better video indexing mechanisms resulting in better searchable results

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Data Mining in Drug Discovery Rémy D. Hoffmann, Arnaud Gohier, Pavel Pospisil, 2013-09-25 Written for drug developers rather than computer scientists this monograph adopts a systematic approach to mining scientific data sources covering all key steps in rational drug discovery from compound screening to lead compound selection and personalized medicine Clearly divided into four sections the first part discusses the different data sources available both commercial and non commercial while the next section looks at the role and value of data mining in drug discovery The third part compares the most common applications and strategies for polypharmacology where data mining can substantially enhance the research effort The final section of the book is devoted to systems biology approaches for compound testing Throughout the book industrial and academic drug discovery strategies are addressed with contributors coming from both areas enabling an informed decision on when and which data mining tools to use for one's own drug discovery project

Supramolecular Structure and Function 10 Jasminka Brnjas-Kraljević, Greta Pifat-Mrzljak, 2011-03-22 The book is based on lectures presented on the International Summer School on Biophysics held in Croatia in September 2009 The advantage of the School is that it provides advanced training in very broad scope of areas related to biophysics contrary to other similar schools or workshops that are centered mainly on one topic or technique In this volume tenth in the row the papers in the field of biophysics are presented The topics are biological phenomena from single protein to macromolecular aggregations structure by using variant physical methods NMR EPR FTIR Mass Spectrometry etc The interrelationship of supramolecular structures and their functions is enlightened by applications of principals of these physical methods in the biophysical and molecular biology context

Comprehensive Toxicology, 2017-12-01 Comprehensive Toxicology Third Edition Fifteen Volume Set discusses chemical effects on biological systems with a focus on understanding the mechanisms by which chemicals induce adverse health effects Organized by organ system this comprehensive reference work addresses the toxicological effects of chemicals on the immune system the hematopoietic system cardiovascular system respiratory system hepatic toxicology renal toxicology gastrointestinal toxicology reproductive

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Guide to Applied Machine Learning for Biologists Mohammad "Sufian" Badar, 2023-06-21 This textbook is an introductory guide to applied machine learning specifically for biology students It familiarizes biology students with the basics of modern computer science and mathematics and emphasizes the real world applications of these subjects The chapters give an overview of computer systems and programming languages to establish a basic understanding of the important concepts in computer systems Readers are introduced to machine learning and artificial intelligence in the field of bioinformatics connecting these applications to systems biology biological data analysis and predictions and healthcare diagnosis and treatment This book offers a necessary foundation for more advanced computer based technologies used in biology employing case studies real world issues and various examples to guide the reader from the basic prerequisites to machine learning and its applications

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