

Vol 18

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this book looks at how to combine metaheuristic optimization algorithms and fuzzy decision making methods to improve the sustainability and effectiveness of supply chains mathematical and metaheuristic optimization methods based on natural processes combined with fuzzy decision making enable the construction of models that can effectively address the multifaceted issues of contemporary supply chains this book offers a variety of decision making techniques including entropy measures distance measures coefficient correlation aggregating operators topsis edas and more this book overcomes the drawbacks of existing fuzzy decision making methods the book also presents case studies that demonstrate the application of metaheuristic decision making algorithms to improve the sustainability and viability of supply chains one such notable example is green supplier selection in supply chain management the changing supply chain management landscape offers many areas for future research like investigating the intersection of mathematical and metaheuristic fuzzy decision making algorithms with new technologies such as the internet of things iot and artificial intelligence which can create more responsive and adaptive supply chains

digital blockchain big data artificial intelligence and virtual reality in healthcare ecosystem is a book that explores the revolutionary impact of blockchain big data and artificial intelligence ai on the pharmaceutical and healthcare sectors the book discusses ai big data and their applications in drug research clinical trials regulatory compliance and post marketing surveillance the book also discusses education and training in smart pharma demonstrating the potential of ai big data and machine learning to improve workforce capacities the book discusses intellectual property and data privacy issues the legislative framework for ai adoption ethical considerations and future trends in ai enabled drug research manufacturing and healthcare innovation it is a valuable resource for healthcare professionals industrial experts and academicians offering theoretical and practical insights

this book explores a wide range of methods for advanced solutions in the field of oncology it explores the transformative role of ai in advancing cancer care focusing on its applications in drug discovery surgical progress and digital twin technology the book provides an in depth analysis of ai s impact on various cancers including breast colorectal brain and others and highlights its potential to enhance early detection accurate diagnosis and personalized treatment the book will investigate the development and optimization of ai algorithms to achieve high accuracy in detecting malignant cells at different stages the technologies encompass machine learning techniques to identify patterns in medical imaging natural language processing to evaluate patient histories and deep learning models to forecast treatment outcomes specific methodologies such as supervised and unsupervised learning models convolutional neural networks for image analysis and reinforcement learning for adaptive treatment strategies are provided the utilization of case studies and real world examples in cancer care will demonstrate every approach enabling readers to gain a practical understanding of how these technologies might be implemented

3d printing and 4d printing require support materials for fabrication ultimately affecting part quality and limiting applicability 5d printing adds dimensions to the layers of 3d printing opening previously unheard of opportunities for efficiency personalization resource conservation and circular economy this cutting edge technology can play a pivotal role in addressing environmental challenges by minimizing waste optimizing material usage and streamlining production processes the book is a fascinating journey through the evolution of traditional 3d printing into the fifth dimension it covers extrusion metal and gel based 5d printing processes and 5d printing processes applicable to polymers and metals primary secondary and tertiary recycling this book also highlights rapid tooling in biomedical applications via 5d 5d printing is an accessible guide to 5d printing technology for engineering structural biomedical healthcare and automobile applications and showcases real world examples of how 5d printing can contribute to a more eco friendly and economically viable manufacturing landscape

this book covers innovative research topics on metaverse digital twins and disease screening and precision medicines which represents the convergence of three significant technological trends each with the potential to impact healthcare on its own however when combined they could establish entirely novel avenues for delivering care offering the potential to reduce costs significantly and greatly enhance patient outcomes these trends include telepresence telemedicine the digital twin dt and blockchain telepresence refers to people s capacity to virtually be together despite physical distance this can be achieved through

virtual reality vr immersing the user entirely augmented reality ar overlaying artificial images onto a real image or other methods aside from vr and ar distinguish two other metaverse types lifelogging capturing storing and sharing everyday experiences and information about objects and people and the mirror world reflecting the real world but integrating and providing external environment information in the healthcare context telepresence is predominantly utilized in telemedicine which involves delivering medical services remotely

green manufacturing with artificial intelligence applications serves as a comprehensive textbook designed for students researchers and educators in mechanical production and industrial engineering the book integrates principles of sustainable manufacturing with cutting edge artificial intelligence tools to promote eco efficient and smart production systems it explains concepts such as energy optimization waste minimization intelligent process control and digital manufacturing with real world examples and case studies emphasizing both theoretical foundations and practical implementation this text prepares learners to understand and apply ai driven approaches for achieving greener cleaner and more efficient manufacturing aligned with industry 4 0 and 5 0 goals

tax planning for u s companies doing business in the eu analyses the design of tax conversion and deferral structures that are advantageous to u s multinationals to reach their goals minimizing liability maximizing credits deducting expenses and utilizing losses using tools such as routing of income and classification of entities and overcoming barriers like the cfc provisions of the u s tax law examines u s federal corporate law and analyses european company taxation with specific tax planning techniques for germany france the netherlands belgium austria denmark ireland spain luxembourg and switzerland

el handbook of the birds of the world es la primera obra que ilustra y trata en detalle todas las especies de aves cuando se publique el volumen 16 ser la primera vez que una clase animal pueda consultarse entera en una misma obra la información de cada volumen está agrupada por familias con una introducción sobre aspectos generales del grupo ilustrada con dibujos y fotografías le sigue el apartado dedicado a cada una de las especies que incluye 1 minas ilustrativas de todas ellas se alando las diferencias sexuales significativas de todas las familias cada volumen tiene aproximadamente 800 páginas y trata de 500 a 800 especies más de 60 láminas a todo color cientos de fotograf as y mapas de distribución además de miles de referencias bibliográficas

list of members in v 1 3 5 14

an in depth guide to upper and lower extremity anatomy based on the latest imaging techniques while the study of anatomy plays a fundamental role in the practice of medicine most textbooks do not rely on modern imaging and post processing methods to depict and increase its understanding imaging anatomy text and atlas volume 3 bones joints muscles vessels and nerves is the third in a series of four richly illustrated radiologic references edited by distinguished radiologist farhood saremi the atlas is coedited by esteemed colleagues dakshesh b patel damián sánchez quintana hiro kiyosue meng law and r shane tubbs and features contributions from an impressive group of international experts this book fills a gap in the literature with descriptions of relevant anatomical components in the context of current advances in imaging technology and science this exquisitely crafted atlas combines fundamental core anatomy principles with modern imaging and postprocessing methods to increase understanding of intricate anatomical features twenty four concise chapters cover terminology and classification of musculoskeletal structure bones muscles joints arteries veins nerves and lymphatics high quality dissecting imaging anatomy discussion of anatomical variants postsurgical anatomy and important pathology examples provide a strong foundation for differentiating normal versus pathologic anatomy key highlights state of the art ct mr angiography and ultrasound techniques infused with 3d reformations color coded volume rendering and 3 7 tesla mr views delineate anatomy in great detail cross sectional and topographic cadaveric views and illustrations by world renowned anatomists improve the ability to grasp difficult radiology concepts consistently formatted chapters including an introduction embryology review of anatomy discussion of anatomical variants surgical anatomy and congenital and acquired pathologies enhance learning this unique atlas provides a virtual user friendly dissection experience it is a must have reference for students radiology residents veteran radiologists internists general surgeons and vascular and transplant surgeons

a comprehensive practical text on effectively running an emergency department emergency department management is a real world pragmatic guide designed to help emergency department managers efficiently handle the many complex issues that arise in this challenging clinical environment written by professionals who have spent their entire careers in the service of emergency department patients this unique text delivers practical solutions to virtually any problem that may arise in running an emergency department or acute care center complete expert coverage of every important management topic including

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