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INTRODUCTION TO

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Privacy-Preserving Machine Learning Jin Li, Ping Li, Zheli Liu, Xiaofeng Chen, Tong Li, 2022-03-14 This book provides a thorough overview of the evolution of privacy preserving machine learning schemes over the last ten years after discussing the importance of privacy preserving techniques In response to the diversity of Internet services data services based on machine learning are now available for various applications including risk assessment and image recognition In light of open access to datasets and not fully trusted environments machine learning based applications face enormous security and privacy risks In turn it presents studies conducted to address privacy issues and a series of proposed solutions for ensuring privacy protection in machine learning tasks involving multiple parties In closing the book reviews state of the art privacy preserving techniques and examines the security threats they face *Advanced Mathematical Techniques in Science and Engineering* Mangey Ram, João Paulo Davim, 2022-09-01 In recent years mathematical techniques applied to novel disciplines within the science and engineering have experienced extraordinary growth Advanced Mathematical Techniques in Science and Engineering focusses on a detailed range of mathematics applied within various fields of science and engineering for different tasks Topics of focus include Analysis of Consensus Building Time in Social Groups Modeling of intersystem accidents in critical infrastructure systems Stochastic approaches to analysis and modeling of multi sources and big data Performance evaluation of computational DoS attack on access point in Wireless LANs Ranking methods for decision making under uncertainty Understanding time delay based Modeling Diffusion of technological products Role of soft computing in science and engineering Complex system reliability analysis and optimization Tree growth models in forest ecosystems modelling This research book can be used as a reference for students in a final year undergraduate engineering course such as mechanical mechatronics industrial computer science information technology etc Furthermore the book can serve as a valuable reference for academics engineers and researchers in these and related subject areas *Strategic Risk, Intelligence And Digital Transformation* Eduardo Rodriguez, 2024-03-19 In this book the study of strategic risk is not only for its control and mitigation using analytics and digital transformation in organizations but also it is about the strategic risks that digital transformation can bring to organizations Strategic risk control is one of the goals in creating intelligent organizations and at the same time it is part of the appetite for creating smarter organizations to support organizations development Knowledge that is created by data analytics and the capacity to operationalize that knowledge through digital transformation can produce potential sustainable competitive advantages The core of the volume is connecting data analytics and artificial intelligence risk management and digitalization to create strategic intelligence as the capacity of adaptation that organizations need to compete and to succeed Strategic intelligence is a symbiotic work of artificial intelligence business intelligence and competitive intelligence Strategic risk is represented by the probability of having variations in the performance results of the organizations that can limit their capacity to maintain sustainable competitive advantages There is

an emphasis in the book about the conversion of models that support data analytics into actions to mitigate strategic risk based on digital transformation This book reviews the steps that organizations have taken in using technology that connects the data analytics modeling process and digital operations such as the shift from the use of statistical learning and machine learning for data analytics to the improvement and use of new technologies The digitalization process is a potential opportunity for organizations however the results are not necessarily good for everyone Hence organizations implement strategic risk control in cloud computing blockchain artificial intelligence and create digital networks that are connected internally and externally to deal with internal and external customers with suppliers and buyers and with competitors and substitutes The new risks appear once new knowledge emerges and is in use but at the same time the new knowledge supports the initiatives to deal with risks arising from novel ways of competing and collaborating

Confluence of Artificial Intelligence and Robotic Process Automation Siddhartha Bhattacharyya, Jyoti Sekhar Banerjee, Debashis De, 2023-03-13 This book provides a detailed insight into Robotic Process Automation RPA technologies linked with AI that will help organizations implement Industry 4.0 procedures RPA tools enhance their functionality by incorporating AI objectives such as use of artificial neural network algorithms text mining techniques and natural language processing techniques for information extraction and the subsequent process of optimization and forecasting scenarios for the purpose of improving an organization's operational and business processes The target readers of this book are researchers professors graduate students scientists policymakers professionals and developers working in the IT and ITeS sectors i.e. people who are working on emerging technologies This book also provides insights and decision support tools necessary for executives concerned with different industrial and organizational automation centric jobs knowledge dissemination information and policy development for automation in different educational government and non government organizations This book is of special interest to college and university educators who teach AI machine learning blockchain business intelligence cognitive intelligence and brain intelligence courses in different capacities

Advances in Manufacturing and Materials Ravinder Kumar, Rakesh Kumar Phanden, R. K. Tyagi, J. Ramkumar, 2024-07-10 This book presents select proceedings of the 2nd Biennial International Symposium on Fluids and Thermal Engineering FLUTE 2023 It covers latest research trends in the areas of production engineering and technology such as sustainable manufacturing processes rapid prototyping process planning production scheduling manufacturing management and automation metrology optimization methods for production processes developments in casting welding machining materials and machine tools The contents of this book are useful for researchers and professionals working in the areas of manufacturing and materials engineering

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Viviana E.,Doorn, Jorge Horacio,Rivero, Laura C.,2009-02-28 This book provides a wide compendium of references to topics in the field of the databases systems and applications Provided by publisher **The Routledge Handbook of Geospatial Technologies and Society** Alexander J. Kent,Doug Specht,2023-08-17 The Routledge Handbook of Geospatial Technologies and Society provides a relevant and comprehensive reference point for research and practice in this dynamic field It offers detailed explanations of geospatial technologies and provides critical reviews and appraisals of their application in society within international and multi disciplinary contexts as agents of change The ability of geospatial data to transform knowledge in contemporary and future societies forms an important theme running throughout the entire volume Contributors reflect on the changing role of geospatial technologies in society and highlight new applications that represent transformative directions in society and point towards new horizons Furthermore they encourage dialogue across disciplines to bring new theoretical perspectives on geospatial technologies from neurology to heritage studies The international contributions from leading scholars and influential practitioners that constitute the Handbook provide a wealth of critical examples of these technologies as agents of change in societies around the globe The book will appeal to advanced undergraduates and practitioners interested or engaged in their application worldwide *The Response of Microalgae and Plankton to Climate Change and Human Activities* Zhaohe Luo,Yanpei Zhuang,Kieng Soon Hii,Hala F. Mohamed,2024-02-07 The majority of global seafood production and mariculture activities take place in marine coastal water bodies especially in areas of high primary productivity from microalgae and plankton This productivity sustains many forms of ecosystem services and promotes carbon dioxide absorption However climate change ocean warming acidification oxygen loss etc and anthropogenic disturbances nutrients intrusion aquaculture have influenced the microalgae plankton community assemblage and shifted it into a highly productive zone causing a severe impact on the marine ecosystem such as an increase in Harmful Algal Blooms dead zone expansions and coral algal phase shifts So far there is still little knowledge on the mechanisms of microalgae plankton community response to these changing environmental conditions Harmful microalgae impair the marine ecosystem through the production of the so called shellfish toxins which cause shellfish contamination and poisoning to the vertebrates including humans In addition some microalgae produce fish killing toxins ichthyotoxins causing increasing damage to marine aquaculture Besides that the high productivity bloom of microalgae in the water due to coastal eutrophication from anthropogenic activities is known to induce hypoxic anoxic conditions causing a severe economic impact on aquaculture

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