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Next-Generation Machine Learning with Spark Butch Quinto,2020-02-22 Access real world documentation and examples for the Spark platform for building large scale enterprise grade machine learning applications The past decade has seen an astonishing series of advances in machine learning These breakthroughs are disrupting our everyday life and making an impact across every industry Next Generation Machine Learning with Spark provides a gentle introduction to Spark and Spark MLlib and advances to more powerful third party machine learning algorithms and libraries beyond what is available in the standard Spark MLlib library By the end of this book you will be able to apply your knowledge to real world use cases through dozens of practical examples and insightful explanations What You Will Learn Be introduced to machine learning Spark and Spark MLlib 2 4 x Achieve lightning fast gradient boosting on Spark with the XGBoost4J Spark and LightGBM libraries Detect anomalies with the Isolation Forest algorithm for Spark Use the Spark NLP and Stanford CoreNLP libraries that support multiple languages Optimize your ML workload with the Alluxio in memory data accelerator for Spark Use GraphX and GraphFrames for Graph Analysis Perform image recognition using convolutional neural networks Utilize the Keras framework and distributed deep learning libraries with Spark Who This Book Is For Data scientists and machine learning engineers who want to take their knowledge to the next level and use Spark and more powerful next generation algorithms and libraries beyond what is available in the standard Spark MLlib library also serves as a primer for aspiring data scientists and engineers who need an introduction to machine learning Spark and Spark MLlib *Artificial Intelligence Programming with Python* Perry Xiao,2022-02-21 A hands on roadmap to using Python for artificial intelligence programming In Practical Artificial Intelligence Programming with Python From Zero to Hero veteran educator and photophysicist Dr Perry Xiao delivers a thorough introduction to one of the most exciting areas of computer science in modern history The book demystifies artificial intelligence and teaches readers its fundamentals from scratch in simple and plain language and with illustrative code examples Divided into three parts the author explains artificial intelligence generally machine learning and deep learning It tackles a wide variety of useful topics from classification and regression in machine learning to generative adversarial networks He also includes Fulsome introductions to MATLAB Python AI machine learning and deep learning Expansive discussions on supervised and unsupervised machine learning as well as semi supervised learning Practical AI and Python cheat sheet quick references This hands on AI programming guide is perfect for anyone with a basic knowledge of programming including familiarity with variables arrays loops if else statements and file input and output who seeks to understand foundational concepts in AI and AI development **AI-Based Optimized Design of Structural Frames** Won-Kee Hong,2024-10-16 This book introduces an auto design based optimization for building frames using an artificial neural network ANN based Lagrange method and novel genetic algorithm GA The work of great mathematician Joseph Louis Lagrange and ANNs are merged to identify parameters that optimize structural frames of reinforced concrete prestressed

concrete and steel frames subject to one or more design constraints New features for enhancing conventional GA are also demonstrated to optimize structural frames New features for optimizing multiple design targets of the building frames are highlighted while design requirements imposed by codes are automatically satisfied Chapters provide readers with an understanding of how both ANN based and novel GA based structural optimization can be implemented in holistically optimizing designated design targets for building structural frames guiding readers toward more rational designs that is consistent with American Institute of Steel Construction AISC and American Concrete Institute ACI standards ANN based holistic designs of multi story frames in general and reinforced concrete prestressed concrete and steel frames in particular are introduced This book suits structural engineers architects and graduate students in the field of building frame designs and is heavily illustrated with color figures and tables *Deep Learning for Chest Radiographs* Yashvi Chandola,Jitendra Virmani,H.S Bhadauria,Papendra Kumar,2021-07-16 Deep Learning for Chest Radiographs enumerates different strategies implemented by the authors for designing an efficient convolution neural network based computer aided classification CAC system for binary classification of chest radiographs into Normal and Pneumonia Pneumonia is an infectious disease mostly caused by a bacteria or a virus The prime targets of this infectious disease are children below the age of 5 and adults above the age of 65 mostly due to their poor immunity and lower rates of recovery Globally pneumonia has prevalent footprints and kills more children as compared to any other immunity based disease causing up to 15% of child deaths per year especially in developing countries Out of all the available imaging modalities such as computed tomography radiography or X ray magnetic resonance imaging ultrasound and so on chest radiographs are most widely used for differential diagnosis between Normal and Pneumonia In the CAC system designs implemented in this book a total of 200 chest radiograph images consisting of 100 Normal images and 100 Pneumonia images have been used These chest radiographs are augmented using geometric transformations such as rotation translation and flipping to increase the size of the dataset for efficient training of the Convolutional Neural Networks CNNs A total of 12 experiments were conducted for the binary classification of chest radiographs into Normal and Pneumonia It also includes in depth implementation strategies of exhaustive experimentation carried out using transfer learning based approaches with decision fusion deep feature extraction feature selection feature dimensionality reduction and machine learning based classifiers for implementation of end to end CNN based CAC system designs lightweight CNN based CAC system designs and hybrid CAC system designs for chest radiographs This book is a valuable resource for academicians researchers clinicians postgraduate and graduate students in medical imaging CAC computer aided diagnosis computer science and engineering electrical and electronics engineering biomedical engineering bioinformatics bioengineering and professionals from the IT industry Provides insights into the theory algorithms implementation and application of deep learning techniques for medical images such as transfer learning using pretrained CNNs series networks directed acyclic graph networks lightweight CNN models deep feature extraction and conventional

machine learning approaches for feature selection feature dimensionality reduction and classification using support vector machine neuro fuzzy classifiers Covers the various augmentation techniques that can be used with medical images and the CNN based CAC system designs for binary classification of medical images focusing on chest radiographs Investigates the development of an optimal CAC system design with deep feature extraction and classification of chest radiographs by comparing the performance of 12 different CAC system designs **Advances in Intelligent Computing and Communication** Mihir Narayan Mohanty,Swagatam Das,2025-07-18 This book presents high quality research papers presented at 5th International Conference on Intelligent Computing and Advances in Communication ICAC 2024 organized by Siksha O Anusandhan deemed to be university Bhubaneswar Odisha India in December 2024 This book brings out the new advances and research results in the fields of theoretical experimental and applied signal and image processing soft computing networking and antenna research Moreover it provides a comprehensive and systematic reference on the range of alternative conversion processes and technologies **IoT, UAV, BCI Empowered Deep Learning models in Precision Agriculture** José Dias Pereira,Liangliang Yang ,Jian Lian,Dengchao Feng,2024-05-10 Machine vision applications in precision agriculture have attracted a great deal of attention They focus on monitoring protection and management of various plant populations These applications have shown potential value in reforming crucial components of plant production including fine grained ripeness recognition of all kinds of plants and detecting and classifying weeds seeds and pests for crop health quality and quantity enhancement In recent decades the extensive achievements of deep learning techniques have shown significant opportunities for almost all fields Accordingly many deep learning models have been presented for different types of images and have achieved promising outcomes The deep learning based approaches can contribute to gaining insights into the plants inherent characteristics and the surrounding environmental elements This research topic s primary value is providing a platform for deep learning based applications for precision agriculture These applications can be fairly evaluated and compared with each other Accordingly more effective and efficient detection and classification approaches for precision agriculture can be developed or optimized MatConvNet Deep Learning and iOS Mobile App Design for Pattern Recognition: Emerging Research and Opportunities Wu, Jiann-Ming,Tien, Chao-Yuan,2020-04-17 Deep learning has become a trending area of research due to its adaptive characteristics and high levels of applicability In recent years researchers have begun applying deep learning strategies to image analysis and pattern recognition for solving technical issues within image classification As these technologies continue to advance professionals have begun translating this intelligent programming language into mobile applications for devices Programmers and web developers are in need of significant research on how to successfully develop pattern recognition applications using intelligent programming MatConvNet Deep Learning and iOS Mobile App Design for Pattern Recognition Emerging Research and Opportunities is an essential reference source that presents a solution to developing intelligent pattern recognition Apps on iOS devices based on

MatConvNet deep learning Featuring research on topics such as medical image diagnosis convolutional neural networks and character classification this book is ideally designed for programmers developers researchers practitioners engineers academicians students scientists and educators seeking coverage on the specific development of iOS mobile applications using pattern recognition strategies **AI for Radiology** Oge Marques,2024-02-12 Artificial intelligence AI has revolutionized many areas of medicine and is increasingly being embraced This book focuses on the integral role of AI in radiology shedding light on how this technology can enhance patient care and streamline professional workflows This book reviews explains and contextualizes some of the most current practical and relevant developments in artificial intelligence and deep learning in radiology and medical image analysis AI for Radiology presents a balanced viewpoint of the impact of AI in these fields underscoring that AI technologies are not intended to replace radiologists but rather to augment their capabilities freeing professionals to focus on more complex cases This book guides readers from the basic principles of AI to their practical applications in radiology moving from the role of data in AI to the ethical and regulatory considerations of using AI in radiology and concluding with a selection of resources for further exploration This book has been crafted with a diverse readership in mind It is a valuable asset for medical professionals eager to stay up to date with AI developments computer scientists curious about AI s clinical applications and anyone interested in the intersection of healthcare and technology **Modern Volcano Monitoring** Zack Spica,Corentin Caudron,2025-09-21 This book describes the different tools that have been developed during the last decades to explain how scientists study volcanoes It takes into consideration volcanology as being a complex field at the interface between geology geochemistry and geophysics and provides information about these aspects to embrace the diversity of a volcanic system The book also provides an outlook to which direction this research is leading It offers a hands on experience directly useful if the reader wants to start applying the principles exposed

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