Intel Movidius Neural Compute Stick Ai Programming

Tomonobu Senjyu,Parikshit N. Mahalle,Thinagaran Perumal,Amit Joshi

Intel Movidius Neural Compute Stick Ai Programming:

Information and Communication Technology for Intelligent Systems Tomonobu Senjyu,Parikshit N. Mahalle,Thinagaran Perumal,Amit Joshi,2020-10-21 This book gathers papers addressing state of the art research in all areas of information and communication technologies and their applications in intelligent computing cloud storage data mining and software analysis It presents the outcomes of the Fourth International Conference on Information and Communication Technology for Intelligent Systems which was held in Ahmedabad India Divided into two volumes the book discusses the fundamentals of various data analysis techniques and algorithms making it a valuable resource for researchers and practitioners alike **Edge Computing** Fadi Al-Turjman,2018-11-09 In this book contributors provide insights into the latest developments of Edge Computing Mobile Edge Computing specifically in terms of communication protocols and related applications and architectures The book provides help to Edge service providers Edge service consumers and Edge service developers interested in getting the latest knowledge in the area The book includes relevant Edge Computing topics such as applications architecture services inter operability data analytics deployment and service resource management simulation and modeling and security and privacy Targeted readers include those from varying disciplines who are interested in designing and deploying Edge Computing Features the latest research related to Edge Computing from a variety of perspectives Tackles Edge Computing in academia and industry featuring a variety of new and innovative operational ideas Provides a strong foundation for researchers to advance further in the Edge Computing domain **The Internet of Things** John Davies,Carolina Fortuna,2020-02-20 Provides comprehensive coverage of the current state of IoT focusing on data processing infrastructure and techniques Written by experts in the field this book addresses the IoT technology stack from connectivity through data platforms to end user case studies and considers the tradeoffs between business needs and data security and privacy throughout There is a particular emphasis on data processing technologies that enable the extraction of actionable insights from data to inform improved decision making These include artificial intelligence techniques such as stream processing deep learning and knowledge graphs as well as data interoperability and the key aspects of privacy security and trust Additional aspects covered include creating and supporting IoT ecosystems edge computing data mining of sensor datasets and crowd sourcing amongst others The book also presents several sections featuring use cases across a range of application areas such as smart energy transportation smart factories and more The book concludes with a chapter on key considerations when deploying IoT technologies in the enterprise followed by a brief review of future research directions and challenges The Internet of Things From Data to Insight Provides a comprehensive overview of the Internet of Things technology stack with focus on data driven aspects from data modelling and processing to presentation for decision making Explains how IoT technology is applied in practice and the benefits being delivered Acquaints readers that are new to the area with concepts components technologies and verticals related to and enabled by IoT Gives IoT specialists a deeper

insight into data and decision making aspects as well as novel technologies and application areas Analyzes and presents important emerging technologies for the IoT arena Shows how different objects and devices can be connected to decision making processes at various levels of abstraction The Internet of Things From Data to Insight will appeal to a wide audience including IT and network specialists seeking a broad and complete understanding of IoT CIOs and CIO teams researchers in IoT and related fields final year undergraduates graduate students post graduates and IT and science media professionals

Artificial Intelligence, Ethics, and the Digital Society: Pathways to Sustainable Development Anju Beniwal,2025-06-25 In recent years the rapid advancement of technology particularly Artificial Intelligence AI and digital innovations has fundamentally transformed every dimension of human society These developments have not only reshaped our economies and lifestyles but have also raised critical ethical environmental and sociological questions This edited volume brings together a diverse range of scholarly contributions that explore the intersections between technological progress sustainable development and social well being The chapters included in this volume reflect contributions from scholars and researchers across India encompassing disciplines such as Sociology History Economics Political Science and Liberal Education The themes range from the role of AI in everyday life and the impact of smart cities on environmental management to localized frameworks of sustainability the digital transformation of food systems and the media s influence on social awareness campaigns Special emphasis is placed on how Artificial Intelligence and digital technologies can both aid and challenge the achievement of Sustainable Development Goals SDGs Simultaneously the ethical frameworks surrounding these innovations are explored to ensure technology serves humanity without compromising core societal values This book also examines grassroots realities and region specific concerns such as sustainable practices in Assam the digitalization of India s organic food sector and menstrual taboos across cultures providing an inclusive and grounded understanding of the diverse sociocultural contexts in which sustainability must be achieved I hope that this volume serves not only as a valuable academic resource but also as a catalyst for interdisciplinary dialogue and policy innovation It is my belief that such collaborative and ethical inquiry is essential to building a more just equitable and sustainable society in the face of the 21st century s challenges I am grateful to all the contributors who have enriched this volume with their research and insights Their dedication to critical inquiry and commitment to social change is what makes this collection both timely and transformative   **Artificial Neural Networks and Evolutionary Computation in Remote Sensing** Taskin Kavzoglu,2021-01-19 Artificial neural networks ANNs and evolutionary computation methods have been successfully applied in remote sensing applications since they offer unique advantages for the analysis of remotely sensed images ANNs are effective in finding underlying relationships and structures within multidimensional datasets Thanks to new sensors we have images with more spectral bands at higher spatial resolutions which clearly recall big data problems For this purpose evolutionary algorithms become the best solution for analysis This book includes eleven high quality papers selected after a

careful reviewing process addressing current remote sensing problems In the chapters of the book superstructural optimization was suggested for the optimal design of feedforward neural networks CNN networks were deployed for a nanosatellite payload to select images eligible for transmission to ground a new weight feature value convolutional neural network WFCNN was applied for fine remote sensing image segmentation and extracting improved land use information mask regional convolutional neural networks Mask R CNN was employed for extracting valley fill faces state of the art convolutional neural network CNN based object detection models were applied to automatically detect airplanes and ships in VHR satellite images a coarse to fine detection strategy was employed to detect ships at different sizes and a deep quadruplet network DQN was proposed for hyperspectral image classification *Transforming Industries, Empowering Societies* Parikshit Narendra Mahalle,Gitanjali R. Shinde,Namrata N. Wasatkar,Prashant Ramchandra Anerao,2025-12-01 With the ever increasing use of AI technologies ethical considerations take on greater importance Human centric AI emphasizes transparency making sure that AI systems work in a way that users can comprehend and trust Additionally it addresses bias and discrimination issues ensuring fairness and inclusion in the design and implementation of AI apps By emphasizing user experience security and human centric AI the goal is to improve collaboration between people and machines rather than replacing human decisions creating a future where technology is a force for good benefiting both businesses and society Written from a technological point of view Industry 5 0 for Society 5 0 explores the impact of cutting edge technologies including the Internet of Things cloud artificial intelligence and digital twin on individuals and community and considers how they can be used to solve societal problems The book considers how these technologies can positively affect industry healthcare agriculture design and manufacture contributing to the development of a sustainable environment that ultimately creates a positive and mutually beneficial relationship between people and AI Presents the fundamentals challenges and advancements in AI required for Industry 5 0 to be beneficial to society Focuses on human centric AI and how it can be used to create more sustainable industry Explores the ethical considerations and regulatory aspects of Edge AI helping readers navigate the responsible use of this technology **Neural Computing Learning Solutions** DTI Neural Computing Technology Transfer Programme,1994

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