

Nutrition Science And Applications 1st Edition

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nature inspired includes roughly speaking bio inspired physical inspired social inspired and so on this book contains highly original contributions about how nature is going to shape networking systems of the future hence it focuses on rigorous approaches and cutting edge solutions which encompass three classes of major methods 1 those that take inspiration from nature for the development of novel problem solving techniques 2 those that are based on the use of networks to synthesize natural phenomena and 3 those that employ natural materials to compute or communicate

the book offers insight into the healthcare system by exploring emerging technologies and ai based applications and implementation strategies it includes current developments for future directions as well as covering the concept of the healthcare system along with its ecosystem data centric ai solutions and emerging technologies in the healthcare ecosystem focuses on the mechanisms of proposing and incorporating solutions along with architectural concepts design principles smart solutions decision making process and intelligent predictions it offers state of the art approaches for overall innovations developments and implementation of the smart healthcare ecosystem and highlights medical signal and image processing algorithms healthcare based computer vision systems and discusses explainable ai xai techniques for healthcare this book will be useful to researchers involved in ai iot data and emerging technologies in the medical industry it is also suitable as supporting material for undergraduate and graduate level courses in related engineering disciplines

this book covers the need for internet of things iot technologies and artificial intelligence ai aided iot solutions for business and production it shows how iot based technology uses algorithms and ai models to bring out the desired results ai aided iot technologies and applications for smart business and production shows how a variety of iot technologies can be used toward integrating data fabric solutions and how intelligent applications can be used to greater effect in business and production operations the book also covers the integration of iot data driven financial technology fintech applications to fulfill the goals of trusted ai aided iot solutions next the authors show how iot based technology uses algorithms and ai models to bring out the desired results across various industries

including smart cities buildings hospitals hotels homes factories agriculture transportation and more the last part focuses on ai aided iot techniques data analytics and visualization tools this book targets a mixed audience of specialists analysts engineers scholars researchers academics and professionals it will be useful to engineering officers iot and ai engineers engineering and industrial management students and research scholars looking for new ideas methodologies technologies models frameworks theories and practices to resolve the challenging issues associated with leveraging iot technologies data driven analytics ai aided models iot cybersecurity 5g sensors and augmented and virtual reality techniques for developing smart systems in the era of industrial revolution 4.0

this book discusses the basic principles of sustainable development in a smart city ecosystem to better serve the life of citizens it examines smart city systems driven by emerging iot powered technologies and the other dependent platforms smart cities ai iot technologies big data solutions cloud platforms and cybersecurity techniques discusses the design and implementation of the core components of the smart city ecosystem the editors discuss the effective management and development of smart city infrastructures starting with planning and integrating complex models and diverse frameworks into an ecosystem specifically the chapters examine the core infrastructure elements including activities of the public and private services as well as innovative ict solutions computer vision iot technologies data tools cloud services ar vr technologies cybersecurity techniques treatment solution of the environmental water pollution and other intelligent devices for supporting sustainable living in the smart environment the chapters also discuss machine vision models and implementation as well as real time robotic applications upon reading the book users will be able to handle the challenges and improvements of security for smart systems and will have the know how to analyze and visualize data using big data tools and visualization applications the book will provide the technologies solutions as well as designs of smart cities with advanced tools and techniques for students researchers engineers and academics

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