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Artificial Intelligence and Internet of Things Internet of Things (IoT) for Automated and Smart Applications Innovations in Smart Cities Applications Volume 4 Smart Technologies Advances in Deep Learning Applications for Smart Cities Artificial Intelligence Applications for Smart Societies Smart Computing Techniques and Applications Innovations in Smart Cities Applications Edition 2 Recent Advances in Intelligent Systems and Smart Applications Artificial Intelligence Applications to Smart City and Smart Enterprise Security and Privacy Applications for Smart City Development Smart Grid Machine Learning and IoT for Intelligent Systems and Smart Applications AI-Aided IoT Technologies and Applications for Smart Business and Production Smart Manufacturing Big Data Intelligence for Smart Applications Smart Cities Smart Technology Applications in Business Environments Smart Environments Convergence of ICT and Smart Devices for Emerging Applications Intelligent Decision Support Systems for Smart City Applications Handbook of Research on Smart Technology Applications in the Tourism Industry Smart Cards Context-Aware Communication and

Computing: Applications for Smart Environment Build
Android-Based Smart Applications Cognitive Internet of
Medical Things for Smart Healthcare Security in Smart
Cities: Models, Applications, and Challenges Smart
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Artificial Intelligence and Internet of Things

2021-08-25

this book reveals the applications of ai and iot in smart healthcare and medical systems it provides core principles algorithms protocols emerging trends security problems and the latest e healthcare services findings the book also provides case studies and discusses how ai and iot applications such as wireless devices sensors and deep learning could play a major role in assisting patients doctors and pharmaceutical staff it focuses on how to use ai and iot to keep patients safe and healthy and at the same time empower physicians to deliver superlative care this book is written for researchers and practitioners working in the information technology computer science and medical equipment manufacturing industry for products and services having basic and high level ai and iot applications the book is also a useful guide for academic researchers and students

Internet of Things (IoT) for Automated and Smart Applications

2019-11-27

internet of things iot is a recent technology paradigm that creates a global network of machines and devices that are capable of communicating with each other security cameras sensors vehicles buildings and software are examples of devices that can exchange data between each other iot is recognized as one of the most important areas

of future technologies and is gaining vast recognition in a wide range of applications and fields related to smart homes and cities military education hospitals homeland security systems transportation and autonomous connected cars agriculture intelligent shopping systems and other modern technologies this book explores the most important iot automated and smart applications to help the reader understand the principle of using iot in such applications

Innovations in Smart Cities Applications Volume 4

2021-02-12

this proceedings book is the fourth edition of a series of works which features emergent research trends and recent innovations related to smart city presented at the 5th international conference on smart city applications sca20 held in safranbolu turkey this book is composed of peer reviewed chapters written by leading international scholars in the field of smart cities from around the world this book covers all the smart city topics including smart citizenship smart education smart mobility smart healthcare smart mobility smart security smart earth environment agriculture smart economy smart factory and smart recognition systems this book contains a special section intended for covid 19 pandemic researches this book edition is an invaluable resource for courses in computer science electrical engineering and urban sciences for sustainable development

Smart Technologies

2019-08-27

the book introduces the concept of smart technologies especially internet of things iot and elaborates upon various constituent technologies their evolution and their applications to various challenging problems in society it then presents research papers and case studies based upon inception application and implementation of iot based smart technologies for various application areas from some of the most technologically conservative domains like agriculture and farming to the most advanced areas such as automobiles financial transactions and industrial applications the book contents is thus applicable not only to academic researcher but also to interested readers from industries and corporates and those involved in policy making excerpt from the foreword read the complete text on springerlink this book contains besides the two introductory chapters written by the project leaders from indian institute of science iisc bangalore and tu clausthal tuc germany the different areas of research work done within the ingpar indo german partnership in advanced research founded by daad in germany and ugc in india project so far by the indian and german young researchers it offers new perspectives and documents important progress in smart technologies i can say without reservation that this book and more specifically the method it espouses will change fundamental ideas for cutting edge innovation and disruption in the smart technology area prof dr thomas hanschke president tu clausthal clausthal zellerfeld germany

Advances in Deep Learning Applications for Smart Cities

2022-05-13

within the past decade technology has grown exponentially and governments have promoted smart cities emerging smart cities have become both crucibles and showrooms for the practical application of the internet of things iot cloud computing and the integration of big data into everyday life this complex concoction requires new thinking of the synergistic utilization of deep learning and blockchain methods and data driven decision making with automation infrastructure autonomous transportation and more advances in deep learning applications for smart cities provides a global perspective on current and future trends concerning the integration of deep learning and blockchain for smart cities it provides valuable insights on the best practices and success factors for smart cities covering topics such as digital healthcare object detection methods and power consumption this book is an excellent reference for researchers scientists libraries industry experts government organizations students and educators of higher education business professionals communication and marketing agencies entrepreneurs and academicians

Artificial Intelligence Applications for Smart Societies

2021-04-27

this volume discusses recent advances in artificial intelligence ai applications in smart internet connected

2023-03-17 **6/33** **schey solutions manual**

societies highlighting three key focus areas the first focus is on intelligent sensing applications this section details the integration of wireless sensing networks wsn and the use of intelligent platforms for wsn applications in urban infrastructures and discusses ai techniques on hardware and software systems such as machine learning pattern recognition expert systems neural networks genetic algorithms and intelligent control in transportation and communications systems the second focus is on ai based internet of things iot systems which addresses applications in traffic management medical health smart homes and energy readers will also learn about how ai can extract useful information from big data in iot systems the third focus is on crowdsourcing cs and computing for smart cities this section discusses how cs via gps devices gis tools traffic cameras smart cards smart phones and road deceleration devices enables citizens to collect and share data to make cities smart and how these data can be applied to address urban issues including pollution traffic congestion public safety and increased energy consumption this book will of interest to academics researchers and students studying ai cloud computing iot and crowdsourcing in urban applications

Smart Computing Techniques and Applications

2021-07-07

this book presents best selected papers presented at the 4th international conference on smart computing and informatics sci 2020 held at the department of computer science and engineering vasavi college of engineering

autonomous hyderabad telangana india it presents advanced and multi disciplinary research towards the design of smart computing and informatics the theme is on a broader front which focuses on various innovation paradigms in system knowledge intelligence and sustainability that may be applied to provide realistic solutions to varied problems in society environment and industries the scope is also extended towards the deployment of emerging computational and knowledge transfer approaches optimizing solutions in various disciplines of science technology and health care

Innovations in Smart Cities Applications Edition 2

2019-02-06

this book highlights cutting edge research presented at the third installment of the international conference on smart city applications sca2018 held in tétouan morocco on october 10 11 2018 it presents original research results new ideas and practical lessons learned that touch on all aspects of smart city applications the respective papers share new and highly original results by leading experts on iot big data and cloud technologies and address a broad range of key challenges in smart cities including smart education and intelligent learning systems smart healthcare smart building and home automation smart environment and smart agriculture smart economy and digital business and information technologies and computer science among others in addition various novel proposals regarding smart cities are discussed gathering peer reviewed chapters written by prominent researchers

from around the globe the book offers an invaluable instructional and research tool for courses on computer and urban sciences students and practitioners in computer science information science technology studies and urban management studies will find it particularly useful further the book is an excellent reference guide for professionals and researchers working in mobility education governance energy the environment and computer sciences

Recent Advances in Intelligent Systems and Smart Applications

2020-06-27

this book explores the latest research trends in intelligent systems and smart applications it presents high quality empirical and review studies focusing on various topics including information systems and software engineering knowledge management technology in education emerging technologies and social networks it provides insights into the theoretical and practical aspects of intelligent systems and smart applications

Artificial Intelligence Applications to Smart City and Smart Enterprise

2020-11-23

smart cities operate under more resource efficient management and economy than ordinary cities as such advanced business models have emerged around smart cities which led to the creation of smart enterprises and organizations that depend on advanced technologies this

book includes 21 selected and peer reviewed articles contributed in the wide spectrum of artificial intelligence applications to smart cities chapters refer to the following areas of interest vehicular traffic prediction social big data analysis smart city management driving and routing localization safety health and life quality

Security and Privacy Applications for Smart City Development

2020

this book explores security and privacy applications for smart city development

Smart Grid

2012-04-09

electric power systems worldwide face radical transformation with the need to decarbonise electricity supply replace ageing assets and harness new information and communication technologies ict the smart grid uses advanced ict to control next generation power systems reliably and efficiently this authoritative guide demonstrates the importance of the smart grid and shows how ict will extend beyond transmission voltages to distribution networks and customer level operation through smart meters and smart homes smart grid technology and applications clearly unravels the evolving smart grid concept with extensive illustrations and practical examples describes the spectrum of key enabling technologies required for the realisation of the smart grid

with worked examples to illustrate the applications enables readers to engage with the immediate development of the power system and take part in the debate over the future smart grid introduces the constituent topics from first principles assuming only a basic knowledge of mathematics circuits and power systems brings together the expertise of a highly experienced and international author team from the uk sri lanka china and japan electrical electronics and computer engineering researchers practitioners and consultants working in inter disciplinary smart grid rd d will significantly enhance their knowledge through this reference the tutorial style will greatly benefit final year undergraduate and master s students as the curriculum increasing focuses on the breadth of technologies that contribute to smart grid realisation

Machine Learning and IoT for Intelligent Systems and Smart Applications

2021-11

the fusion of ai and iot enables the systems to be predictive prescriptive and autonomous and this convergence has evolved the nature of emerging applications from being assisted to augmented and ultimately to autonomous intelligence this book discusses algorithmic applications in the field of machine learning and iot with pertinent applications it further discusses challenges and future directions in the machine learning area and develops understanding of its role in technology in terms of iot security issues pertinent applications described include

speech recognition medical diagnosis optimizations predictions and security aspects features focuses on algorithmic and practical parts of the artificial intelligence approaches in iot applications discusses supervised and unsupervised machine learning for iot data and devices presents an overview of the different algorithms related to machine learning and iot covers practical case studies on industrial and smart home automation includes implementation of ai from case studies in personal and industrial iot this book aims at researchers and graduate students in computer engineering networking communications information science engineering and electrical engineering

AI-Aided IoT Technologies and Applications for Smart Business and Production

2023-12-01

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

Smart Manufacturing

2020-08-04

research efforts in the past decade have led to considerable advances in the concepts and methods of smart manufacturing smart manufacturing applications and case studies includes information about the key applications of these new methods as well as practitioners accounts of real life applications and case studies written by thought leaders in the field from around the world smart manufacturing applications and case studies is essential reading for graduate students researchers process engineers and managers it is complemented by a companion book titled smart manufacturing concepts and methods which describes smart manufacturing methods in detail includes examples of applications of smart manufacturing in process industries provides a thorough

overview of the subject and practical examples of applications through well researched case studies offers insights and accounts of first hand experiences to motivate further implementations of the key concepts of smart manufacturing

Big Data Intelligence for Smart Applications

2022-02-27

today the use of machine intelligence expert systems and analytical technologies combined with big data is the natural evolution of both disciplines as a result there is a pressing need for new and innovative algorithms to help us find effective and practical solutions for smart applications such as smart cities iot healthcare and cybersecurity this book presents the latest advances in big data intelligence for smart applications it explores several problems and their solutions regarding computational intelligence and big data for smart applications it also discusses new models practical solutions and technological advances related to developing and transforming cities through machine intelligence and big data models and techniques this book is helpful for students and researchers as well as practitioners

Smart Cities

2017-07-12

provides the foundations and principles needed for addressing the various challenges of developing smart

cities smart cities are emerging as a priority for research and development across the world they open up significant opportunities in several areas such as economic growth health wellness energy efficiency and transportation to promote the sustainable development of cities this book provides the basics of smart cities and it examines the possible future trends of this technology smart cities foundations principles and applications provides a systems science perspective in presenting the foundations and principles that span multiple disciplines for the development of smart cities divided into three parts foundations principles and applications smart cities addresses the various challenges and opportunities of creating smart cities and all that they have to offer it also covers smart city theory modeling and simulation and examines case studies of existing smart cities from all around the world in addition the book addresses how to develop a smart city and how to present the state of the art and practice of them all over the world focuses on the foundations and principles needed for advancing the science engineering and technology of smart cities including system design system verification real time control and adaptation internet of things and test beds covers applications of smart cities as they relate to smart transportation connected vehicle cv and intelligent transportation systems its for improved mobility safety and environmental protection smart cities foundations principles and applications is a welcome reference for the many researchers and professionals working on the development of smart cities and smart city related industries

Smart Technology Applications in Business Environments

2017-03-03

technology continues to make great strides in society by providing opportunities for advancement inclusion and global competency as new systems and tools arise novel applications are created as well smart technology applications in business environments is an essential reference source for the latest scholarly research on the risks and opportunities of utilizing the latest technologies in different aspects of society such as education healthcare systems and corporations featuring extensive coverage on a broad range of topics and perspectives including virtual reality robotics and social media this publication is ideally designed for academicians researchers students and practitioners seeking current research on the improvement and increased productivity from the implementation of smart technologies

Smart Environments

2004-10-28

smart environments contains contributions from leading researchers describing techniques and issues related to developing and living in intelligent environments reflecting the multidisciplinary nature of the design of smart environments the topics covered include the latest research in smart environment philosophical and computational architecture considerations network protocols for smart environments intelligent sensor

networks and powerline control of devices and action prediction and identification

Convergence of ICT and Smart Devices for Emerging Applications

2020-05-19

this book focuses on recent topics related to the convergence of information and communication technologies ict and computing with smart devices domain areas of application include social industrial business development and day to day life aspects this book presents chapters related to the aforementioned topics including case studies showcasing future technological trends and challenges topics social inclusion solutions and social changes smart devices and applications for day to day life smart iot and applications and smart cities solutions the book is applicable to researchers students professionals and professors in a wide range of fields focuses on recent developments in ict and smart devices that pose a clear benefit for users presents applications of ict in education health electronics communication networking computing tourism transportation appeals to researchers academics and professionals in a cross section of disciplines

Intelligent Decision Support Systems for Smart City Applications

2022-12-05

intelligent decision support systems for smart city applications this book provides smart city frameworks to

address new difficulties by adding new features and allowing the city environment to react to collected data and information to increase the efficiency and sustainability of services for inhabitants making a smart city is an emerging strategy to mitigate the problems generated by urban population growth and rapid urbanization this book aims to provide a better understanding of the concept of smart cities and the application of an intelligent decision support system based on the analysis of existing information there are eight critical factors of smart city initiatives management and organization technology governance policy context people and communities economy built infrastructure and natural environment this book will focus on the application of the decision support system in managing these eight crucial aspects of smart cities the intent in writing this book was also to provide a source that covers the stage by stage integration of the four key areas involving planning physical infrastructure ict infrastructure and deploying the smart solutions necessary for city transformation with this as the motivation decision support systems for smart city applications provides the application of an intelligent decision support system for effectively and efficiently managing the transformation process which can aid various supply chain stakeholders academic researchers and related professionals in building smart cities various chapters of this book are expected to support practicing managers during the implementation of smart solutions for city transformation audience this book is aimed at both academics and practitioners alike in the fields of intelligent computing decision support systems the manufacturing industry supply chain managers stakeholders policymakers and other technical and administrative personnel

Handbook of Research on Smart Technology Applications in the Tourism Industry

2020-01-17

in today s modernized society certain technologies have become more applicable within many professional fields and are much easier to implement this includes the tourism industry where smart technology has provided a range of new marketing possibilities including more effective sales tactics and delivering a more personalized customer experience as the scope of business analytics continues to expand professionals need research on the various applications of smart technology within the field of tourism the handbook of research on smart technology applications in the tourism industry is an essential reference source that discusses the use of intelligent systems in tourism as well as their influence on consumer relationships featuring research on topics such as digital advertising wearable technology and consumer behavior this book is ideally designed for travel agents tour developers restaurateurs hotel managers tour directors airlines marketers researchers managers hospitality professionals policymakers business strategists researchers academicians and students seeking coverage on the use of smart technologies in tourism

Smart Cards

1998-01-07

a complete nuts and bolts guide to designing building and
2023-03-17 **19/33** schey solutions manual

managing the smart card system that s right for your company already a well established medium of exchange in europe smart card technology has made major inroads in the north american market in the past few years visa and mastercard are committed to replacing credit cards with them over the next five years and microsoft is racing to use them for e commerce clearly the time for asking why regarding smart cards has passed the important question companies now should be asking themselves is how how to plan how to develop how to implement and how to manage the smart card system that is right for our company this book provides complete unbiased answers to these and all your technical and business questions about smart card systems dreifus and monk guide you step by step through the entire process of selecting designing building and managing a smart card application tailored to your business they supply numerous checklists to help guarantee that you make the correct technical decisions during each phase of the process and they include real world case studies illustrating successful smart card implementations in a variety of industries including banking manufacturing entertainment healthcare and transportation crucial topics covered in detail include smart card architectures and standards security and encryption smart card operating systems smart card application design and development development tools testing and certification smart cards arms you with everything you need to know to make informed decisions about the smart card system that s right for your company

Context-Aware Communication and

Computing: Applications for Smart Environment

2017-06-29

this book introduces context aware computing providing definitions categories characteristics and context awareness itself and discussing its applications with a particular focus on smart learning environments it also examines the elements of a context aware system including acquisition modelling reasoning and distribution of context it also reviews applications of context aware computing both past and present to offer readers the knowledge needed to critically analyse how context awareness can be put to use it is particularly to those new to the subject area who are interested in learning how to develop context aware computing oriented applications as well as postgraduates and researchers in computer engineering communications engineering related areas of information technology it further it provides practical know how for professionals working in it support and technology consultants and business decision makers and those working in the medical human and social sciences

Build Android-Based Smart Applications

2017-12-15

build smart applications using cutting edge technologies such as rules engines code automation frameworks and natural language processing nlp this book provides step by step instructions on how to port nine rules engines clips

jruleengine dtrules zilonis termware roolie openrules jxbre and jeops to the android platform you ll learn how to use each rules engine to build a smart application with sample code snippets so that you can get started with programming smart applications immediately build android based smart applications also describes porting issues with other popular rules engines drools jllisa take and jess this book is a step by step guide on how to generate a working smart application from requirement specifications it concludes by showing you how to generate a smart application from unstructured knowledge using the stanford pos part of speech tagger nlp framework what you will learn evaluate the available rules engines to see which rules engine is best to use for building smart applications build smart applications using rules engines create a smart application using nlp automatically generate smart application from requirement specifications who this book is for android and web developers with some experience

Cognitive Internet of Medical Things for Smart Healthcare

2020-10-19

this book aims to provide a detailed understanding of iomt supported applications while engaging premium smart computing methods and improved algorithms in the field of computer science it contains thirteen chapters discussing various applications under the umbrella of the internet of medical things these applications geared towards iomt cloud analysis machine learning computer vision and deep learning have enabled the evaluation of the proposed solutions

Security in Smart Cities: Models, Applications, and Challenges

2018-11-04

this book offers an essential guide to iot security smart cities iot applications etc in addition it presents a structured introduction to the subject of destination marketing and an exhaustive review on the challenges of information security in smart and intelligent applications especially for iot and big data contexts highlighting the latest research on security in smart cities it addresses essential models applications and challenges written in plain and straightforward language the book offers a self contained resource for readers with no prior background in the field primarily intended for students in information security and iot applications including smart cities systems and data heterogeneity it will also greatly benefit academic researchers it professionals policymakers and legislators it is well suited as a reference book for both undergraduate and graduate courses on information security approaches the internet of things and real world intelligent applications

Smart Infrastructure and Applications

2019-07-03

this book provides a multidisciplinary view of smart infrastructure through a range of diverse introductory and advanced topics the book features an array of subjects that include smart cities and infrastructure e healthcare

2023-03-17

23/33

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emergency and disaster management internet of vehicles supply chain management e-governance and high performance computing the book is divided into five parts smart transportation smart healthcare miscellaneous applications big data and high performance computing and internet of things iot contributions are from academics researchers and industry professionals around the world features a broad mix of topics related to smart infrastructure and smart applications particularly high performance computing big data and artificial intelligence includes a strong emphasis on methodological aspects of infrastructure technology and application development presents a substantial overview of research and development on key economic sectors including healthcare and transportation

Smart Card Applications

2007-04-30

a practical guide to the specification design and programming of smart card systems for working applications more than 3 billion smartcards are produced every year generally defined as any pocket sized card with embedded integrated circuits or chips they have a huge number of applications including travel cards chip and pin cards pet tags mobile phone sims and pallet trackers now with modern smart card technology such as java card and basic card it is possible for everyone to create his or her own applications on a smart card this book provides generic solutions for programming smart cards enabling the creation of working applications and systems key features presents a comprehensive introduction to the topic of smart cards explaining component elements and

the smart card microcontrollers sets out information on operating systems with case studies of a range of applications including credit card security mobile phones and transport payment cards gives detailed advice on the monitoring of smart card applications recognizing potential attacks on security and improving system integrity provides modules and examples so that all types of systems can be built up from a small number of individual components offers guidelines on avoiding and overcoming design errors ideal for practising engineers and designers looking to implement smart cards in their business it is also a valuable reference for postgraduate students taking courses on embedded system and smart card design

Innovations in Smart Cities Applications Edition 3

2020-02-04

this book highlights original research and recent advances in various fields related to smart cities and their applications it gathers papers presented at the fourth international conference on smart city applications sca19 held on october 2 4 2019 in casablanca morocco bringing together contributions by prominent researchers from around the globe the book offers an invaluable instructional and research tool for courses on computer science electrical engineering and urban sciences it is also an excellent reference guide for professionals researchers and academics in the field of smart cities this book covers topics including smart citizenship smart education digital business and smart governance smart health care new generation of networks and systems for smart cities smart

grids and electrical engineering smart mobility smart
security sustainable building sustainable environment

Smart Sensor Networks Using AI for Industry 4.0

2021-10-11

smart sensor networks wsns using ai have left a mark on the lives of all by aiding in various sectors such as manufacturing education healthcare and monitoring of the environment and industries this book covers recent ai applications and explores aspects of modern sensor technologies and the systems needed to operate them the book reviews the fundamental concepts of gathering processing and analyzing different ai based models and methods it covers recent wsn techniques for the purpose of effective network management on par with the standards laid out by international organizations in related fields and focuses on both core concepts along with major applicational areas the book will be used by technical developers academicians data sciences industrial professionals researchers and students interested in the latest innovations on problem oriented processing techniques in sensor networks using iot and evolutionary computer applications for industry 4 0

Smart Data

2019-03-19

smart data state of the art perspectives in computing and applications explores smart data computing techniques to

provide intelligent decision making and prediction services support for business science and engineering it also examines the latest research trends in fields related to smart data computing and applications including new computing theories data mining and machine learning techniques the book features contributions from leading experts and covers cutting edge topics such as smart data and cloud computing ai for networking smart data deep learning big data capture and representation ai for big data applications and more features presents state of the art research in big data and smart computing provides a broad coverage of topics in data science and machine learning combines computing methods with domain knowledge and a focus on applications in science engineering and business covers data security and privacy including ai techniques includes contributions from leading researchers

Sensor Network Methodologies for Smart Applications

2020-06-26

technologies in today s society are rapidly developing at a pace that is challenging to stay up to date with as an increasing number of global regions are implementing smart methods and strategies for sustainable development they are continually searching for modern advancements within computer science sensor networks software engineering and smart technologies a compilation of research is needed that displays current applications of computing methodologies in the progression of global cities and how smart technologies are being utilized sensor

network methodologies for smart applications is a collection of innovative research on the methods of intelligent systems and technologies and their various applications within sustainable development practices while highlighting topics including machine learning network security and optimization algorithms this book is ideally designed for researchers scientists developers programmers engineers educators policymakers geographers planners and students seeking current research on smart technologies and sensor networks

Machine Learning Paradigm for Internet of Things Applications

2022-02-16

machine learning paradigm for internet of things applications as companies globally realize the revolutionary potential of the iot they have started finding a number of obstacles they need to address to leverage it efficiently many businesses and industries use machine learning to exploit the iot s potential and this book brings clarity to the issue machine learning ml is the key tool for fast processing and decision making applied to smart city applications and next generation iot devices which require ml to satisfy their working objective machine learning has become a common subject to all people like engineers doctors pharmacy companies and business people the book addresses the problem and new algorithms their accuracy and their fitness ratio for existing real time problems machine learning paradigm for internet of thing applications provides the state of the art applications of machine learning in an iot environment the most common

use cases for machine learning and iot data are predictive maintenance followed by analyzing cctv surveillance smart home applications smart healthcare in store contextualized marketing and intelligent transportation systems readers will gain an insight into the integration of machine learning with iot in these various application domains

Smart Metering Design and Applications

2013-10-04

taking into account the present day trends and the requirements this brief focuses on smart metering of electricity for next generation energy efficiency and conservation the contents include discussions on the smart metering concepts and existing technologies and systems as well as design and implementation of smart metering schemes together with detailed examples

Smart Systems Design, Applications, and Challenges

2020

this book explores new trends and applications in smart systems

Artificial Intelligence and Industrial Applications

2020-09-01

this book gathers the refereed proceedings of the artificial intelligence and industrial applications a2ia 2020 the first installment of an annual international conference organized by the ensam meknes at moulay ismail university morocco the 30 papers presented here were carefully reviewed and selected from 141 submissions by an international scientific committee they address various aspects of artificial intelligence such as smart manufacturing smart maintenance smart supply chain management supervised learning unsupervised learning reinforcement learning graph based and semi supervised learning neural networks deep learning planning and optimization and other ai applications the book is intended for ai experts offering them a valuable overview of the status quo and a global outlook for the future with many new and innovative ideas and recent important developments in ai applications both of a foundational and practical nature it will also appeal to non experts who are curious about this timely and important subject

Smart Grid Sensors

2022-04-21

discover the ever growing field of smart grid sensors classic and state of the art technologies and innovative data driven applications

Smart Intelligent Computing and Applications

2018-11-04

the proceedings covers advanced and multi disciplinary research on design of smart computing and informatics the theme of the book broadly focuses on various innovation paradigms in system knowledge intelligence and sustainability that may be applied to provide realistic solution to varied problems in society environment and industries the volume publishes quality work pertaining to the scope of the conference which is extended towards deployment of emerging computational and knowledge transfer approaches optimizing solutions in varied disciplines of science technology and healthcare

Smart Sensors and Systems

2018-04-22

this book describes the technology used for effective sensing of our physical world and intelligent processing techniques for sensed information which are essential to the success of internet of things iot the authors provide a multidisciplinary view of sensor technology from materials process circuits and big data domains and showcase smart sensor systems in real applications including smart home transportation medical environmental agricultural etc unlike earlier books on sensors this book provides a global view on smart sensors covering abstraction levels from device circuit systems and algorithms

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