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Smart City Emergence
Springer Nature
Smart Cities and Artificial
Intelligence offers a
comprehensive view of how

cities are evolving as smart ecosystems through the convergence of technologies incorporating machine learning and neural network capabilities, geospatial intelligence, data analytics and visualization, sensors, and smart connected objects. These recent advances in AI move us closer to developing urban operating systems that simulate human,

machine, and environmental cities through an patterns from transportation interconnected stream of infrastructure to theory, planning and design communication networks. methodologies, system Exploring cities as real-time, architecture, and the living, dynamic systems, application of smart city and providing tools and functions, with the ultimate formats including generative purpose of making cities design and living lab models more liveable, sustainable, that support cities to and self-sufficient. - become self-regulating, this Explores concepts in smart book provides readers with city design and a conceptual and practical development and the knowledge base to grasp transformation of cities and apply the key principles through the convergence of required in the planning, human, machine, and design, and operations of natural systems enabled by smart cities. Smart Cities and Artificial Intelligence (AI) - brings a multidisciplinary, Includes numerous integrated approach, diagrams to illustrate and examining how the digital explain complex smart city and physical worlds are systems and solutions - converging, and how a new Features diverse smart city combination of human and examples and initiatives machine intelligence is from around the globe transforming the experience Minutes of consultation workshop on the project consortium for Scaling-up Climate Smart Agriculture in South Asia (C-SUCSeS): of the urban environment. It presents a fresh holistic understanding of smart

interconnected stream of theory, planning and design methodologies, system architecture, and the application of smart city functions, with the ultimate purpose of making cities more liveable, sustainable, and self-sufficient. - Explores concepts in smart city design and development and the transformation of cities through the convergence of human, machine, and natural systems enabled by Artificial Intelligence (AI) - Includes numerous diagrams to illustrate and explain complex smart city systems and solutions - Features diverse smart city examples and initiatives from around the globe Minutes of consultation workshop on the project consortium for Scaling-up Climate Smart Agriculture in South Asia (C-SUCSeS):

Brainstorming the challenges and opportunities of tackling climate change in the region

Springer Nature

Humane and Sustainable Smart Cities explores how to develop emergent smart cities that are rooted in humane, innovative and sustainable values (CHIS). The book considers the move from technocratic and idealized smart metropole to humane cities as a product of fundamental demographic changes, the development of a usage-based rather than an ownership economy, the novel implications of digitalization, decentralization and decarbonization, and Internet-enabled changes in public opinion towards democratization and participation. The book's authors explore seven dimensions and characteristics of humane, sustainable and innovative cities in the developing world: the

economy, people, the place, energy and the environment, mobility, social inclusion and governance. Additional sections the operationalization of the CHIS concept into formal planning, policy implementation, and impact assessment considerations. Final discussions center on building a roadmap for planners seeking to design development policies conducive to human values and long-term social viability. - Provides an axiological framework for the development of humane, innovative and sustainable cities - Examines how that framework can be operationalized into formal planning, policy implementation and impact assessment - Explores humane, innovative and sustainable cities in terms of seven dimensions, including the economy, people, the place, energy and the environment,

mobility, social inclusion and governance - Explores proven paths for promoting effective community engagement in developing humane cities - Provides a practical roadmap to design development policies conducive to human values and long-term social viability

Artificial Intelligence Applications and Innovations. AIAI 2024 IFIP WG 12.5 International Workshops Springer Nature

This book presents the fundamentals and applications of solution-focused coaching both in individual coaching and in coaching entire teams. It provides central tools for consulting as well as an extensive collection of solution-focused

coaching questions for practical use. In the second part of the book, methods and procedures for conducting team coaching workshops are presented. The book is aimed primarily at coaches and consultants who want to enrich their work with solution-focused coaching, as well as managers especially in the field of human resource management.

Designing Smart Objects in Everyday Life AHFE Conference

The Smart Solution Book explains each tool in detail – what it is, when and how to use it, its strengths and its limitations. The tools range from quick fixes, which can be used by someone working alone, to large scale solutions which can be used by groups

of 100 and more. You can also use the tools separately or in combination with each other. Frame problems so they can be solved Find a solution to even the most intractable problem Enjoy the process of problem solving, whether alone or in collaboration with others Become more creative in your thinking so that, over time, solutions begin to present themselves The Smart Solution Book will change your way of thinking about business problems: apply the techniques and see the solutions unfold. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps.

Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. Software Architecture. ECSA 2024 Tracks and Workshops Springer Nature The ability of future industry to create interactive, flexible and always-on connections between design, manufacturing and supply is an ongoing challenge, affecting competitiveness, efficiency and resourcing. The goal of enterprise interoperability (EI) research is therefore to address the effectiveness of solutions that will successfully prepare

organizations for the advent and uptake of new technologies. This volume outlines results and practical concepts from recent and ongoing European research studies in EI, and examines the results of research and discussions cultivated at the I-ESA 2018 conference, “ Smart services and business impact of enterprise interoperability ” . The conference, designed to encourage collaboration between academic inquiry and real-world industry applications, addressed a number of advanced multidisciplinary topics including Industry 4.0, Big Data, the Internet of Things, Cloud computing, ontology, artificial intelligence, virtual reality and enterprise modelling for future

“ smart ” manufacturing. Readers will find this book to be a source of invaluable knowledge for enterprise architects in a range of industries and organizations.

Learning Factories of the Future Springer Nature This handbook brings together technical expertise, conceptual background, applications, and societal aspects of Industry 4.0: the evolution of automation and data exchange in fabrication technologies, materials processing, and device manufacturing at both experimental and theoretical model scales. The book assembles all the aspects of Industry 4.0, starting from the emergence of the concept to the consequences of its progression. Drawing on expert contributors from around the world, the volume details the technologies that sparked

the fourth revolution and illustrates their characteristics, potential, and methods of use in the industrial and societal domains. In addition, important topics such as ethics, privacy and security are considered in a reality where all data is shared and saved remotely. The collection of contribution serve a very broad audience working in the fields of science and engineering, chemical engineering, materials science, nanotechnology, energy, environment, green chemistry, sustainability, electrical and electronic engineering, solid-state physics, surface science, aerosol technology, chemistry, colloid science, device engineering, and computer technology. This handbook ideal reference libraries in universities and industrial institutions, government and independent institutes, individual research groups

and scientists.

Smart and Sustainable Operations and Supply Chain Management in Industry 4.0 Bloomsbury Publishing

This book constitutes the refereed proceedings of five International Workshops held as parallel events of the 18th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2022, virtually and in Hersonissos, Crete, Greece, in June 2022: the 11th Mining Humanistic Data Workshop (MHDW 2022); the 7th 5G-Putting Intelligence to the Network Edge Workshop (5G-PINE 2022); the 1st workshop on AI in Energy, Building and Micro-Grids (AIBMG 2022); the 1st Workshop/Special Session on Machine Learning and Big Data in Health Care (ML@HC 2022); and the 2nd Workshop on Artificial Intelligence in Biomedical

Engineering and Informatics (AIBEI 2022). The 35 full papers presented at these workshops were carefully reviewed and selected from 74 submissions.

Planning Climate Smart and Wise Cities John

Wiley & Sons

This book provides readers with a comprehensive overview of the latest developments in the field of smart manufacturing, exploring theoretical research, technological advancements, and practical applications of AI approaches. With Industry 4.0 paving the way for intelligent systems and innovative technologies to enhance productivity and quality, the transition to Industry 5.0 has introduced a new concept known as augmented intelligence (Aul), combining

artificial intelligence (AI) with human intelligence (HI). As the demand for smart manufacturing continues to grow, this book serves as a valuable resource for professionals and practitioners looking to stay up-to-date with the latest advancements in Industry 5.0. Covering a range of important topics such as product design, predictive maintenance, quality control, digital twin, wearable technology, quantum, and machine learning, the book also features insightful case studies that demonstrate the practical application of these tools in real-world scenarios. Overall, this book provides a comprehensive and up-to-date account of the latest advancements in smart manufacturing, offering

readers a valuable resource for navigating the challenges and opportunities presented by Industry 5.0.

Handbook of Smart Materials, Technologies, and Devices Springer Nature

This book constitutes refereed proceedings of the Workshops of the 17th European Dependable Computing Conference, EDCC: Second Workshop on Dynamic Risk Management for Autonomous Systems, DREAMS 2021, Third Workshop on Dependable Solutions for Intelligent Electricity Distribution Grids, DSOGRI 2021, 13th Workshop on Software Engineering for Resilient Systems, SERENE 2021, held in September 2021. Due to the COVID-19 pandemic

the workshops were held virtually. The 14 workshop papers presented were thoroughly reviewed and selected from 22 submissions. The workshop papers complement the main conference topics by addressing dependability or security issues in specific application domains or by focussing in specialized topics, such as system resilience.

Fine Woodworking Penguin

This two-volume constitutes the refereed proceedings of the First International Conference on Advancements in Smart Computing and Information Security, ASCIS 2022, held in Rajkot, India, in November 2022. The 37 full papers and 18 short papers presented were thoroughly reviewed and selected from the 206

submissions. The papers are organized in topical sections on artificial intelligence; smart computing; cyber security; industry.

Automated Invention for Smart Industries John Wiley & Sons

This book contains revised papers from the three workshops and two accompanying events that took place at the 20th International Conference on Business Information Systems, BIS 2017, held in Poznan, Poland, in June 2017. The workshops included in this volume are: * The 9th Workshop on Applications of Knowledge-Based Technologies in Business – AKTB 2017 accepted 9 papers from 16 submissions and featured 1 invited paper.

* The 8th Workshop on

Business and IT

Alignment - BITA 2017

selected 5 papers from 10 submissions. * The 1st Workshop on

Sustainable Energy Systems, Smart

Infrastructures, and

Smart Environments –

SESSISE 2017 selected

2 papers for inclusion in

this book. In addition, BIS

hosted a Doctoral

Consortium from which 5

papers are included.

Furthermore, two

contributions from the

Second National

Congress on Information

Systems, which took

place during BIS, are

included. The volume

ends with an invited

paper presented during a

special session of the

main BIS conference.

The Blockchain

Technology for Secure

and Smart Applications

across Industry

Verticals Springer
Nature
Smart City Emergence:
Cases from around the
World analyzes how
smart cities are
currently being
conceptualized and
implemented,
examining the
theoretical
underpinnings and
technologies that
connect theory with
tangible practice
achievements. Using
numerous cities from
different regions
around the globe, the
book compares how
smart cities of
different sizes are
evolving in different
countries and
continents. In addition,
it examines the
challenges cities face
as they adopt the

smart city concept,
separating fact from
fiction, with insights
from scholars,
government officials
and vendors currently
involved in smart city
implementation. -
Utilizes a sound and
systematic research
methodology - Includes
a review of the latest
research developments
- Contains, in each
chapter, a brief
summary of the case,
an illustration of the
theoretical context that
lies behind the case,
the case study itself,
and conclusions
showing learned
outcomes - Examines
smart cities in relation
to climate change,
sustainability, natural
disasters and
community resiliency

Human Aspects of
Advanced Manufacturing,
Production Management
and Process Control
Springer

This book provides information that facilitates integrated climate actions in cities, leveraging disruptive technologies, business models, policies, financing, and leadership solutions. It fosters the development of climate smart and wise cities. It reviews the major developments of climate actions in cities and combines climate environment and energy technology, policy and financing instruments. A range of distinguished authors assess the experiences thus far and also consider future development from both theoretical and practical perspectives. They also discuss many policy and technical options, including climate smart and wise city planning, inclusion of urban

nature, international and national carbon market mechanisms and measuring its impact and digital transformation. Moreover, attention is paid to the role of natural principles, the role of transparency principles and to aspects of democratic climate governance within a climate action scheme. This book makes clear that the carbon neutrality, sustainability, circularity, efficiency, connectivity and resiliency of cities depend to a large extent on the specific digital technologies and the leadership reshaping our cities. Discussing multidisciplinary aspects of climate action, this book offers new insights to academics, policymakers and practitioners both in the public and private sectors. Those insights are not only retrospective, relevant for understanding the past, but they are also prospective and forward-looking, guiding the

achievements of the SDGs and the climate goals. Artificial Intelligence Applications and Innovations. AIAI 2022 IFIP WG 12.5 International Workshops Springer
The Blockchain Technology for Secure and Smart Applications across Industry Verticals, Volume 121, presents the latest information on a type of distributed ledger used for maintaining a permanent and tamper-proof record of transactional data. The book presents a novel compendium of existing and budding Blockchain technologies for various smart applications. Chapters in this new release include the Basics of Blockchain, The Blockchain History, Architecture of

Blockchain, Core components of Blockchain, Blockchain 2.0: Smart Contracts, Empowering Digital Twins with Blockchain, Industrial Use Cases at the Cusp of the IoT and Blockchain Paradigms, Blockchain Components and Concepts, Digital Signatures, Accumulators, Financial Systems, and more. This book is a unique effort to illuminate various techniques to represent, improve and authorize multi-institutional and multidisciplinary research in a different type of smart applications, like the financial system, smart grid, transportation system, etc. Readers in identity-privacy, traceability, immutability, transparency, auditability, and security

will find it to be a valuable resource. - Provides a snapshot of the state of current research based on the decentralized system that provides security and privacy to the smart applications - Chapters cover the fundamental concepts of the newly emerged Blockchain technology along with, the various smart applications - Helps to elucidate new trading platforms that provides business benefits like efficiency, auditability, traceability, transparency, feedback, and security

Re-imagining Diffusion and Adoption of Information Technology and Systems: A Continuing Conversation Elsevier

This two-volume set of IFIP AICT 617 and 618

constitutes the refereed proceedings of the IFIP WG 8.6 International Working Conference "Re-imagining Diffusion and Adoption of Information Technology and Systems: A Continuing Conversation" on Transfer and Diffusion of IT, TDIT 2020, held in Tiruchirappalli, India, in December 2020. The 86 revised full papers and 36 short papers presented were carefully reviewed and selected from 224 submissions. The papers focus on the re-imagination of diffusion and adoption of emerging technologies. They are organized in the following parts:

Part I: artificial intelligence and

autonomous systems;
big data and analytics;
blockchain; diffusion
and adoption
technology; emerging
technologies in e-
Governance; emerging
technologies in
consumer decision
making and choice; fin-
tech applications;
healthcare information
technology; and
Internet of Things Part
II: diffusion of
information technology
and disaster
management; adoption
of mobile and platform-
based applications;
smart cities and digital
government; social
media; and diffusion of
information technology
and systems
Artificial Intelligence
Applications and
Innovations. AIAI 2023

IFIP WG 12.5
International Workshops
Springer Nature
Gathers tips on cleaning,
entertaining, decorating,
home repairs, eliminating
pet odors, and solving
health and beauty
problems
Smart Questions Springer
Nature
Hand and Power Tools
Work Best Together In
today's world of more-
power-is-better, it's easy
to overlook the value of
hand tools. What most
woodworker's don't realize
is that combining both hand
and power tool worlds is
the best way to produce
the highest quality
woodworking. In Hand
Tool Essentials you'll learn
how to choose and use
hand tools for chopping,
cutting, paring, sawing,
marking, drilling and more.
Many of the tools are
familiar, but others will
surprise you with their
usefulness. Though they've

been around for hundreds (or thousands) of years, these tools have gotten lost in the rush of the industrial revolution. Rediscovering the value of these tools in your woodworking will also give you a better understanding of how your power tools work. But this book is more than about how to use hand tools. It's about using hand tools in balance with power tools to save you time, provide a more pleasant woodworking experience and ultimately give you a better woodworking project. The Complete Idiot's Guide to Household Solutions Intl Food Policy Res Inst Smart Cities Policies and Financing: Approaches and Solutions is the definitive professional reference for harnessing the full potential of policy making and financial planning in

smart cities. It covers the effective tools for capturing the dynamic relations between people, policies, financing, and environments, and where they are most often useful and effective for all relevant stakeholders. The book examines the key role of science, technology, and innovation (STI) - especially in information and communications technologies - in the design, development, and management of smart cities policies and financing. It identifies the problems and offers practical solutions in implementation of smart infrastructure policies and financing. Smart Cities Policies and Financing is also about how the implementation of smart infrastructure projects (related to the

challenges of the lack of financing and the application of suitable policies) underlines the key roles of science, technology and innovation (STI) communities in addressing these challenges and provides key policies and financing that will help guide the design and development of smart cities. - Brings together experts from academia, government and industry to offer state-of- the-art solutions for improving the lives of billions of people in cities around the globe - Creates awareness among governments of the various policy tools available, such as output-based contracting, public-private partnerships, procurement policies, long-term contracting,

and targeted research funds in order to promote smart infrastructure implementation, and encouraging the use of such tools to shape markets for smart infrastructure and correct market failures - Ensures the inclusiveness of smart city projects by adequately addressing the special needs of marginalized sections of society including the elderly, persons with disabilities, and inhabitants of informal settlements and informal sectors - Ensures gender considerations in the design of smart cities and infrastructure through the use of data generated by smart systems to make cities safer and more responsive to the needs of women - Demonstrate practical

implementation through real-life case studies - Enhances reader comprehension using learning aids such as hands-on exercises, checklists, chapter summaries, review questions, and an extensive appendix of additional resources Foundations and Trends in Smart Learning Taunton Sustainable Communities Design Handbook: Green Engineering, Architecture, and Technology, Second Edition, brings together the major players responsible for sustainable development at both community and metropolitan scales. The book aims to explain and demonstrate the practice, planning, design, building and managing of the engineering, architectural and economic development of cities and communities to meet sustainable development objectives.

Offering a holistic approach to creating sustainable communities, the book includes a 40 percent increase in new methods and technology over the last edition, and 50 percent more case studies from around the world to illustrate how common sustainability problems are solved. As the concept and practices of a sustainable built environment have evolved over the years, it is increasingly recognized that the scope should be expanded beyond individual buildings to the community scale. Written by an international team of engineers, architects, and environmental experts this second edition includes new HVAC technologies for heating and cooling, energy effect technologies for lighting, and new construction materials which improve heating and cooling efficiencies. This new edition will also include critical updates on

international codes: LEED, BREEAM, and Green Globes. - Explains the most cutting-edge green technologies and methods for use in built communities - Provides a common approach in using natural resources when building and designing green communities - Features coverage of green practices from architecture to construction - Covers compliance with various international codes, methods and legal frameworks

Smart Product

Engineering Pearson UK

This book focuses on the interplay between pedagogy and technology, and their fusion for the advancement of smart learning environments. It discusses various components of this interplay, including learning and assessment

paradigms, social factors and policies, emerging technologies, innovative application of mature technologies, transformation of curriculum and teaching behavior, transformation of administration, best infusion practices, and piloting of new ideas. The book provides an archival forum for researchers, academics, practitioners and industry professionals interested and/or engaged in reforming teaching and learning methods by promoting smart learning environments. It also facilitates discussions and constructive dialogue among various stakeholders on the limitations of existing learning environments, the need for reform, innovative uses of emerging pedagogical

approaches and technologies, and sharing and promoting best practices, leading to the evolution, design and implementation of smart learning environments.