SMARI GITTES

ORIGINAL E-BOOK PACKAGE PRICE | US\$ 3,993 /£ 3,685

SPECIAL PACKAGE PRICE | US\$ 2,795 / £ 2,580



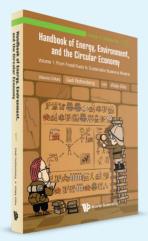
www.worldscientific.com/page/smart-cities

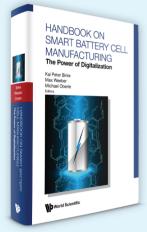


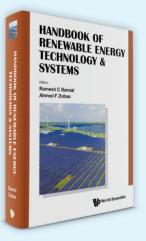


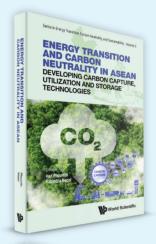


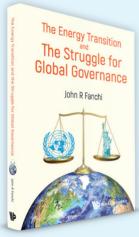
This collection explores a comprehensive suite of cutting-edge innovations that are shaping the future of urban living, delving into the integration of intelligent systems within cities, the evolution of transportation through smart mobility solutions, and the advancements in sustainable energy management.





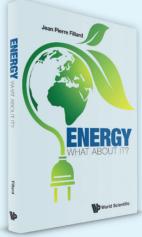






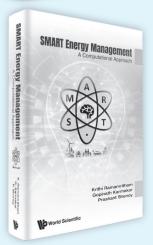


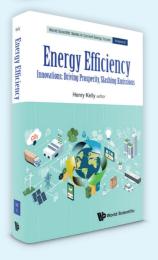




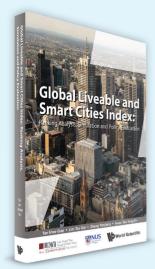


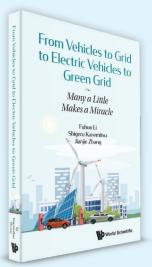


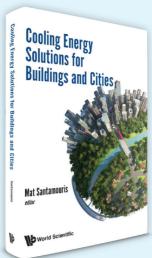


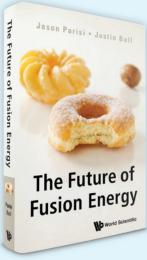


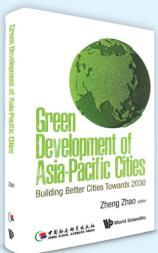


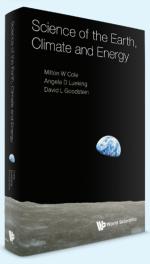


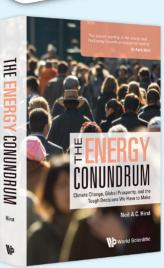












Title list		
TITLE	ISBN13	PUB DATE
ENERGY TRANSITION AND CARBON NEUTRALITY IN ASEAN: DEVELOPING CARBON CAPTURE, UTILISATION AND STORAGE TECHNOLOGIES	9789811288050	19-Aug-24
ENERGY TRANSITION AND THE STRUGGLE FOR GLOBAL GOVERNANCE, THE	9789811290206	29-Jul-24
HANDBOOK OF ENERGY, ENVIRONMENT, AND THE CIRCULAR ECONOMY - VOLUME 1: FROM FOSSIL FUELS TO SUSTAINABLE BUSINESS MODELS	9789811293030	03-Jun-24
VISIONS FOR THE FUTURE: TOWARDS MORE VIBRANT, SUSTAINABLE AND SMART CITIES	9789811293108	30-May-24
SMART SUSTAINABILITY TRANSFORMATION PLAYBOOK	9789811287275	08-Feb-24
ENERGY: WHAT ABOUT IT?	9789811267475	16-Oct-23
SMART CITY 2.0: STRATEGIES AND INNOVATIONS FOR CITY DEVELOPMENT	9789811257186	20-Feb-23
HANDBOOK ON SMART BATTERY CELL MANUFACTURING: THE POWER OF DIGITALIZATION	9789811245626	10-Jun-22
ELECTRIC VEHICLES IN SHARED FLEETS: MOBILITY MANAGEMENT, BUSINESS MODELS, AND DECISION SUPPORT SYSTEMS	9781800611429	29-Apr-22
SMART ENERGY MANAGEMENT: A COMPUTATIONAL APPROACH	9789811252297	04-Jan-22
HANDBOOK OF RENEWABLE ENERGY TECHNOLOGY & SYSTEMS	9781786349033	19-Aug-21
ENERGY EFFICIENCY: INNOVATIONS: DRIVING PROSPERITY, SLASHING EMISSIONS	9789811217869	09-Nov-20
TOWARD SUSTAINABLE AND ECONOMIC SMART MOBILITY: SHAPING THE FUTURE OF SMART CITIES	9781786347862	18-Jun-20
GLOBAL LIVEABLE AND SMART CITIES INDEX: RANKING ANALYSIS, SIMULATION AND POLICY EVALUATION	9789811211553	15-Nov-19
FROM VEHICLES TO GRID TO ELECTRIC VEHICLES TO GREEN GRID: MANY A LITTLE MAKES A MIRACLE	9789811206979	26-Jul-19
COOLING ENERGY SOLUTIONS FOR BUILDINGS AND CITIES	9789813236974	15-Feb-19
FUTURE OF FUSION ENERGY, THE	9781786345431	02-Jan-19
GREEN DEVELOPMENT OF ASIA-PACIFIC CITIES: BUILDING BETTER CITIES TOWARDS 2030	9789813236820	19-Dec-18
SCIENCE OF THE EARTH, CLIMATE AND ENERGY	9789813233621	27-Apr-18
ENERGY CONUNDRUM, THE: CLIMATE CHANGE, GLOBAL PROSPERITY, AND THE TOUGH DECISIONS WE HAVE TO MAKE	9781786344618	30-Jan-18

HIGHLIGHTS



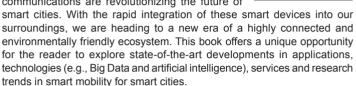
oward Sustainable and conomic Smart Mobility

Toward Sustainable and Economic Smart Mobility

Shaping the Future of Smart Cities

edited by Max Eiza (University of Central Lancashire, UK), Yue Cao (Lancaster University, UK) & Lexi Xu (China Unicom, China & Beijing University of Posts and Telecommunications, China)

During the last decade, developments in smart cars, mobile devices, internet of things and vehicular communications are revolutionizing the future of



Readership: Professionals and researchers in the areas of Smart Mobility (e.g., autonomous valet parking, passenger trajectory data, smart traffic control systems), general public interested in technological advances.

212pp Jun 2020 978-1-78634-786-2(ebook) US\$141 £130

Multiple Access Systems for Next-generation Communications

Theory and Practice of Multiple Access Systems

by Gui-Rong Liu (University of Cincinnati, USA)

This book provides a thorough examination of traditional and emerging multiple access systems, including Non-Orthogonal Multiple Access (NOMA) and Rate Splitting Multiple Access (RSMA), essential for efficient and low-latency communication in the era of massive Internet of Things. In particular, it discusses their potential role in enhancing 5G networks and their consideration as the standard for 6G multiple access. Geared towards postgraduates and researchers, the book establishes the theoretical groundwork of conventional multiple access systems while delving into practical applications. Through a focus on NOMA and RSMA, it offers valuable insights into cutting-edge wireless communication research and development.

Readership: Communications engineers, networking engineers, information engineers, electronics engineers, vehicular technology engineers.

400pp Jan 2025 978-981-98-0107-7(ebook) US\$253 £237

SMART Energy Management **A Computational Approach**

by Krithi Ramamritham (Indian Institute of Technology Bombay, India & Sai University, Chennai, India), Gopinath Karmakar (Bhabha Atomic Research Centre Mumbai, India) & Prashant Shenoy (University of Massachusetts, Amherst, USA)

"Overall a good technical treatise on smart energy and must read for students in energy studies and engineering, AI specialists in using IIoTs for



MART Energy Management

designing Building Management Systems and even policy makers. The book is even good for architects planning and designing electrical energy system for industry and cities; data collection through edge devices, energy consumption in building, industrial houses, locality and pushing these data through the cloud for an in-depth assessment of utilization of energy, predicting future energy requirements and energy mix for keeping the greenhouse effect under control."

Bhabha Atomic Research Centre Newsletter

The book also presents computational thinking and techniques such as inferencing and learning for energy management. To this end, this book is designed to help understand the recent research trends in energy management, focusing specifically on the efforts to increase energy efficiency of buildings, campuses, and cities.

Readership: Graduate students, researchers and practitioners interested in an overview of recent advances in energy management systems.

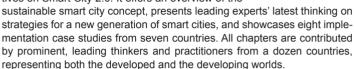
312pp Jan 2022 978-981-12-5229-7(ebook) US\$189 £175



Strategies and Innovations for City **Development**

edited by Deog-Seong Oh (Woosong University, South Korea), Fred Young Phillips (University of New Mexico, USA & Tongji University, China) & Avvari V Mohan (University of Nottingham Malaysia Campus, Malaysia)

This book offers leading-edge, international perspectives on Smart City 2.0. It offers an overview of the



Readership: City planners and city officials, students and researchers in the fields of urban planning and information technology, Information infrastructure consultants and providers and international banks and aid agencies.

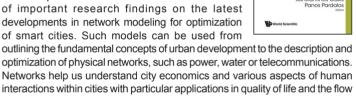
420pp Feb 2023 978-981-12-5718-6(ebook) US\$237 £220

Series on Computers and Operations Research -Volume 8

Network Design and Optimization for Smart Cities

edited by Konstantinos Gakis & Panos Pardalos (University of Florida, USA)

This comprehensive reference text is a collection of important research findings on the latest developments in network modeling for optimization of smart cities. Such models can be used from



Network Design and

Optimization for Smart Cities

SMART CITY 2.0

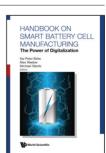
of people and goods. Finally, the natural environment and even the climate of cities can be modeled and managed as networks. Readership: Urban planners, researchers, academics, professionals and graduate students in neural networks/networking, systems engineering, electrical & electronic engineering, and energy studies.

May 2017 978-981-320-001-2(ebook) US\$237 £195

Handbook on Smart Battery Cell Manufacturing

The Power of Digitalization

edited by Kai Peter Birke (University of Stuttgart, Germany & Fraunhofer Institute for Manufacturing Engineering and Automation (IPA), Germany), Max Weeber (Fraunhofer Institute for Manufacturing Engineering and Automation (IPA), Germany) & Michael Oberle (Fraunhofer Institute for Manufacturing Engineering and Automation (IPA), Germany)



This handbook bridges the gap between basic electrochemical battery cell research and battery cell production approaches. To run lithium-ion battery gigafactories successfully and sustainably, high-quality battery cell production processes and systems are required. The Handbook provides a comprehensive and well-structured analysis of every aspect of the manufacturing process of smart battery cell, including upscaling battery cell production, accompanied by many instructive practical examples of the digitalization of battery products and manufacturing systems using an integrated life cycle perspective.

Readership: Industry Practitioners and Researchers specialising in Battery Cell Manufacturing; Advanced Undergraduate and Postgraduate Students in Electrical, Chemical and Mechanical Engineering and Research pertaining to Batteries.

488pp Jun 2022 978-981-12-4562-6(ebook) US\$253 £235

International Journal on **Smart and Sustainable Cities**

Centre for Liveable Cities and World Scientific Publishing Co Pte Ltd

Call for Papers on Science of Complex and Regenerative Cities

ISSN (print): 2972-4260 | ISSN (online): 2972-4252

To find out more about IJSSC, visit our website:



https://www.worldscientific.com/ijssc

Editor-in-Chief

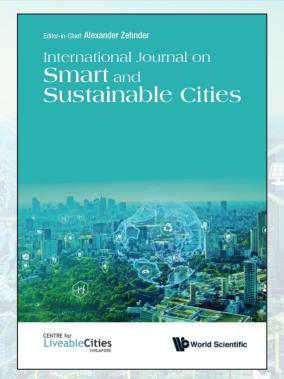
Alexander Zehnder

(Nanyang Technological University, Singapore)

Abstracting/Indexing: Baidu | | CNKI Scholar | CnpLINKer | Crossref | Dimensions | Ebsco Discovery Service | EBSCO Electronic Journal Service (EJS) | ExLibris Primo Central | Google Scholar | J-Gate | Naver | NSTL - National Science and Technology Libraries | OCLC WorldCat® | The Summon® Service.

SUBMIT YOUR PAPER TO THIS JOURNAL. RECOMMEND THIS JOURNAL TO YOUR LIBRARIAN!





The International Journal on Smart and Sustainable Cities is a **biannual** publication which aims to provide a platform for global inter-disciplinary research that is at the nexus of urban science and technology, sustainable development, urban planning, and resilience, with a focus on the Asia-Pacific region.

Types of Papers

To be a convenor of theory and practice, IJSSC accepts high-quality:

- · Research papers,
- Review papers,
- · Insights and/or Opinions pieces and
- · Policy notes

from academics, practitioners, and policy makers.

Topics covered

Here are examples of topics that IJSSC will cover:

- i. complexity science for cities
- ii. application of digital humanities and citizen science to address city challenges
- iii. the use of emerging technology such as artificial intelligence, big data, advancements in modelling and visualization, cloud computing, and/or Internet of Things to enhance liveability, sustainability, restorative, regenerative, and/or wellbeing benefits in urban systems such as food, energy, water, etc.
- iv. the development of human-centric infrastructure in cities
- v. the adoption of multi-stakeholder approach to anticipate and tackle emerging urban challenges
- vi. sustainable development in cities, including aspects of energy, urban greenery, mobility, planning, architecture, real estate, financing, governance, etc
- vii. other related topics

The Journal aims to connect theory and practice, share innovative thoughts and experiences from policymakers, academics, and industry leaders that would be useful to shed light on the practical applications of science and technology in advancing the liveability, and sustainability of cities.

Printed in Aug 2024 / SP JO 08 24 03 E



