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Advances and New Trends in Environmental and Energy Informatics

Selected and Extended Contributions
from the 28th International Conference
on Informatics for Environmental
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Book Advances Trends Environmental Energy Informatics

**Gupta, Brij B., Pramod,
Dhanya, Moslehpour, Massoud**



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Advances and New Trends in Environmental and Energy Informatics Jorge Marx Gomez, Michael Sonnenschein, Ute Vogel, Andreas Winter, Barbara Rapp, Nils Giesen, 2015-12-24 This book presents the latest findings and ongoing research in the field of green information systems and green information and communication technology ICT It provides insights into a whole range of cross cutting topics in ICT and environmental sciences as well as showcases how information and communication technologies allow environmental and energy efficiency issues to be handled effectively The papers presented in this book are a selection of extended and improved contributions to the 28th International Conference on Informatics for Environmental Protection dedicated to ICT for energy efficiency This book is essential and particularly worth reading for those who already gained basic knowledge and want to deepen and extend their expertise in the subjects mentioned above

Advances and New Trends in Environmental Informatics Volker Wohlgemuth, Frank Fuchs-Kittowski, Jochen Wittmann, 2016-09-02 This book presents the latest findings and ongoing research in the field of green information systems as well as green information and communication technology ICT It provides insights into a whole range of cross cutting concerns in ICT and environmental sciences and showcases how information and communication technologies allow environmental and energy efficiency issues to be handled effectively Offering a selection of extended and reworked contributions to the 30th International Conference EnviroInfo 2016 it is essential reading for anyone wanting to extend their expertise in the area

ICT Innovations for Sustainability Lorenz M. Hilty, Bernard Aebischer, 2014-08-06 ICT Innovations for Sustainability is an investigation of how information and communication technology can contribute to sustainable development It presents clear definitions of sustainability suggesting conceptual frameworks for the positive and negative effects of ICT on sustainable development It reviews methods of assessing the direct and indirect impact of ICT systems on energy and materials demand and examines the results of such assessments In addition it investigates ICT based approaches to supporting sustainable patterns of production and consumption analyzing them at various levels of abstraction from end user devices Internet infrastructure user behavior and social practices to macro economic indicators Combining approaches from Computer Science Information Systems Human Computer Interaction Economics and Environmental Sciences the book presents a new holistic perspective on ICT for Sustainability ICT4S It is an indispensable resource for anyone working in the area of ICT for Energy Efficiency Life Cycle Assessment of ICT Green IT Green Information Systems Environmental Informatics Energy Informatics Sustainable HCI or Computational Sustainability

Advances and New Trends in Environmental Informatics Volker Wohlgemuth, Stefan Naumann, Grit Behrens, Hans-Knud Arndt, 2021-12-10 This book is an outcome of the 35th International Conference EnviroInfo 2021 held at Humboldt University Berlin organized by the technical committee for Environmental Informatics of the German Informatics Society It presents a selection of papers that describe innovative scientific approaches and ongoing research in environmental informatics and the emerging field of

environmental sustainability promoted and facilitated by the use of information and communication technologies ICT The respective articles cover a broad range of scientific aspects including advances in core environmental informatics related technologies such as earth observation environmental modelling big data and machine learning robotics smart agriculture and food solutions renewable energy based solutions optimization of infrastructures sustainable industrial processes and citizen science as well as applications of ICT solutions intended to support societal transformation processes toward the more sustainable management of resource use transportation and energy supplies A special focus lies on the question how environmental informatics can contribute to achieving the United Nations Sustainable Development Goals Given its scope the book is essential reading for scientists experts and students in these fields of research **Advances and New Trends in**

Environmental Informatics Volker Wohlgemuth, Stefan Naumann, Grit Behrens, Hans-Knud Arndt, Maximilian Hüb, 2022-11-09 This book is an outcome of the 36th International Conference EnviroInfo 2022 held at the University of Hamburg Germany organized by the technical committee for Environmental Informatics of the German Informatics Society It presents a selection of papers that describe innovative scientific approaches and ongoing research in environmental informatics and the emerging field of environmental sustainability promoted and facilitated by the use of information and communication technologies ICT The respective articles cover a broad range of scientific aspects including advancements in core environmental informatics related technologies such as earth observation environmental modelling geographical information systems sustainable transportation risk modelling and assessment artificial intelligence applications renewable energy based solutions optimization of infrastructures sustainable industrial processes citizen science as well as applications of ICT solutions that are aiming at supporting societal transformation processes towards more sustainable management of resource use and energy supply A special focus is on how environmental informatics research covers the societal challenges of digitalization and sustainability green in IT green by IT and their relationships green data centres green software engineering green coding and green environmental management information systems The book is essential reading for scientists experts and students in these fields of research **Artificial Intelligence in Chemical Engineering** Farooq

Sher, 2025-10-04 Artificial Intelligence in Chemical Engineering explores the integration of artificial intelligence AI into various facets of chemical engineering The book introduces historical information highlights current state and trends in AI applications and discusses challenges and opportunities within the field Foundational principles of AI and machine learning are thoroughly covered giving readers a solid understanding of basic AI principles machine learning algorithms and the crucial processes of model training and validation The book then delves into the critical phase of data acquisition and preprocessing for AI models addressing strategies for data collection ensuring data quality and techniques for feature engineering and selection Subsequent chapters cover a wide spectrum of AI applications in chemical engineering From supervised and unsupervised learning for process modeling to the advanced realm of deep learning applications this book

explores neural networks convolutional and recurrent architectures and their real world applications in process optimization and analysis Navigates the dynamic intersection of AI and chemical engineering covering ethical considerations interdisciplinary applications and AI's impact on safety sustainability and innovation Bridges the gap between policy and implementation of AI in chemical engineering facilitating a harmonious integration of AI technologies and fostering responsible and effective use within the chemical engineering industry Offers a forward looking approach to guide professionals researchers and students in navigating the dynamic and transformative future of AI in chemical engineering

Sustainable Information Security in the Age of AI and Green Computing Gupta, Brij B., Pramod,

Dhanya, Moslehpour, Massoud, 2025-05-13 The convergence of artificial intelligence AI green computing and information security can create sustainable efficient and secure IT systems That is the latest advancements in leveraging AI may minimize environmental impact optimize resource usage and bolster cybersecurity within green IT frameworks Thus a holistic view of AI can drive sustainable innovation in computing and information systems This is important for raising awareness about the importance of sustainability in the tech industry and promoting the adoption of green computing practices among IT professionals and organizations Sustainable Information Security in the Age of AI and Green Computing contributes to a deeper understanding of the synergies between AI green computing and information security highlighting how these fields can work together to create more sustainable and secure systems By presenting cutting edge research practical solutions and future trends the book inspires new ideas and developments in sustainable IT practices and technologies Covering topics such as digital ecosystems malware detection and carbon emission optimization this book is an excellent resource for IT managers data center operators software developers cybersecurity experts policymakers corporate decision makers professionals researchers scholars academicians and more

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Environmental Informatics Andreas Kamilaris, Volker Wohlgemuth, Kostas Karatzas, Ioannis N. Athanasiadis, 2020-12-16

This book is an outcome of the 34th International Conference EnviroInfo 2020 hosted virtually in Nicosia Cyprus by the Research Centre on Interactive Media Smart Systems and Emerging Technologies RISE It presents a selection of papers that describe innovative scientific approaches and ongoing research in environmental informatics and the emerging field of environmental sustainability promoted and facilitated by the use of information and communication technologies ICT The respective articles cover a broad range of scientific aspects including advances in core environmental informatics related technologies such as earth observation environmental modelling big data and machine learning robotics smart agriculture and food solutions renewable energy based solutions optimization of infrastructures sustainable industrial processes and citizen science as well as applications of ICT solutions intended to support societal transformation processes toward the more sustainable management of resource use transportation and energy supplies Given its scope the book is essential reading for scientists experts and students in these fields of research Chapter Developing a Configuration System for a Simulation Game

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Advances and New Trends in Environmental Informatics Rüdiger Schaldach, Karl-Heinz Simon, Jens Weismüller, Volker Wohlgemuth, 2019-10-31 This book is an outcome of the 33rd International Conference EnviroInfo 2019 held at the University of Kassel Germany It presents a selection of papers that describe innovative scientific approaches and ongoing research in environmental informatics and the emerging field of computational sustainability The respective articles cover a broad range of scientific aspects including advances in core technologies such as earth observation environmental modelling big data and machine learning as well as applications of ICT solutions intended to support societal transformation processes toward the more sustainable management of resource use transportation and the energy supply Given its scope the book is essential reading for scientists experts and students in these fields of research

Advances and New Trends in Environmental Informatics Hans-Joachim Bungartz, Dieter Kranzlmüller, Volker Weinberg, Jens Weismüller, Volker Wohlgemuth, 2018-11-03 This book presents the latest findings and ongoing research in the field of environmental informatics It addresses a wide range of cross cutting activities such as efficient computing virtual reality disruption management big data open science and the internet of things and showcases how these green information communication technologies ICT can be used to effectively address environmental and societal challenges Presenting a selection of extended contributions to the 32nd edition of the International Conference EnviroInfo 2018 at the Leibniz Supercomputing Centre in Garching near Munich it is essential reading for anyone looking to expand their expertise in the area

Modern Power Converters for Renewable Energy Applications Natarajan Balasubramanian Muthu Selvan, Venkatraman Thiagarajan, Cheng Siong Chin, 2025-09-02 As the world transitions toward sustainable energy solutions power converters have become indispensable in enabling the efficient integration and operation of renewable energy systems Modern Power Converters for Renewable Energy Applications Modeling Analysis Design and Control offers a comprehensive guide to the modeling analysis design and control of these critical technologies tailored for solar photo voltaic wind energy and energy storage applications This book delves into the unique challenges and requirements of power converters with detailed coverage of DC DC DC AC and multilevel converter technologies Readers will gain insights into advanced control strategies for ensuring system stability and reliability under varying conditions Bridging theory and practice this book is packed with case studies simulation examples and design methodologies to help readers transition from conceptual understanding to practical implementation Using industry standard tools readers can analyze converter performance optimize designs and address real world challenges in renewable energy systems Key topics include grid synchronization power quality improvement and compliance with international standards equipping readers to handle the complexities of modern power grids This book also explores the integration of energy storage systems emphasizing their role in stabilizing renewable outputs and enhancing system flexibility Ideal for researchers engineers and students this book

provides the expertise needed to excel in power electronics for renewables Whether advancing research driving innovation or solving practical challenges *Modern Power Converters for Renewable Energy Applications Modeling Analysis Design and Control* is the definitive resource for mastering the technologies shaping the future of sustainable energy **Encyclopedia of Sustainable Technologies** Martin Abraham,2017-07-04 *Encyclopedia of Sustainable Technologies Eight Volume Set* provides an authoritative assessment of the sustainable technologies that are currently available or in development Sustainable technology includes the scientific understanding development and application of a wide range of technologies and processes and their environmental implications Systems and lifecycle analyses of energy systems environmental management agriculture manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes In addition the development of clean processes through green chemistry and engineering techniques are also described The book is the first multi volume reference work to employ both Life Cycle Analysis LCA and Triple Bottom Line TBL approaches to assessing the wide range of technologies available and their impact upon the world Both approaches are long established and widely recognized playing a key role in the organizing principles of this valuable work Provides readers with a one stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field offering comprehensive coverage of the field and a consistent high quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies **Design Strategies for Efficient and Sustainable Building Facilities** González-Lezcano, Roberto Alonso,Sansaniwal, Sunil Kumar,2024-08-05 Despite the growing emphasis on energy efficiency in building design our indoor environments often fall short of providing optimal conditions for health and well being Indoor air quality temperature and lighting levels play crucial roles in occupant health yet they are frequently overlooked in building practices This oversight leads to environments that can harm health contributing to respiratory problems allergies and reduced productivity *Design Strategies for Efficient and Sustainable Building Facilities* offers a comprehensive solution We delve into recent advances in building design construction and operation that prioritize energy efficiency and occupant health By incorporating intelligent sensors automation systems and renewable energy sources like solar and wind power buildings can be transformed into healthy sustainable spaces that promote well being This book is tailored for researchers professionals university professors and master s and doctoral students who seek to advance sustainable building practices *Applied Spectroscopy* ,2008 **Books in Series, 1876-1949** R.R. Bowker Company,1982 *Stealth Construction* Seyi S. Stephen,Ayodeji E. Oke,Clinton Ohis Aigbavboa,Opeoluwa I. Akinradewo,Pelumi E. Adetoro,Matthew Ikuabe,2025-01-30 *Stealth Construction* explores a strategic amalgamation of diverse construction practices and technologies into resilient construction with the aim of improving construction environmental protection safety speed project delivery economy and aesthetics *Advances and New Trends in*

Environmental Informatics 2023 Volker Wohlgemuth, Dieter Kranzlmüller, Maximilian Höb, 2024-02-08 This book is an outcome of the 37th International Conference EnviroInfo 2023 held at the Leibniz Supercomputing Centre Munich Germany organized by the technical committee for Environmental Informatics of the German Informatics Society It explores the fusion of information and communication technologies with environmental sustainability As a flagship edition of the EnviroInfo conference series it showcases the latest advancements in applied informatics and environmental informatics With a focus on Towards a Sustainable Digital Society the conference presents innovative research on topics such as green computing sustainable software engineering and digital transformation The proceedings cover essential subjects for shaping a greener future including energy efficient workloads environmental management systems legal frameworks Earth observation and geographical information systems It also examines emerging technologies like robotics AI and reinforcement learning highlighting their applications in environmental informatics From citizen science to disaster risk modeling and sustainable resource management the book explores the interdisciplinary nature of environmental informatics It also addresses societal aspects including its role in developing countries This resource is essential for researchers professionals and policymakers seeking to leverage ICT for addressing environmental challenges and building a sustainable digital society Handbook of Research on Driving Transformational Change in the Digital Built Environment Underwood, Jason, Shelbourn, Mark, 2021-05-07 The construction industry is amidst a digital transformation that is focused on addressing well documented issues and calls for significant improvements and changes through increased productivity whole life value client focus reduction of waste and being more sustainable The key aspect to driving change and transformation is the education and upskilling of the required workforce towards developing the required capacities Various approaches can be taken to embed digital construction within education and through collaborative efforts in order to drive change and facilitate improvements The Handbook of Research on Driving Transformational Change in the Digital Built Environment focuses on current developments in practice and education towards facilitating transformation in the built environment This book provides insight from a practice perspective in relation to the client s understanding digitally enabled collaboration interoperability and open standards and maturity capability Covering topics that include digital transformation and construction digitally enabled infrastructure building information modelling collaborative digital education and the digital built environment this book is an ideal reference source for engineers professionals and researchers in the field of digital transformation as well as doctoral scholars doctoral researchers professionals and academicians *Books and Periodicals Online* ,1994 Documentation Abstracts ,1998

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