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Development of Smart Context-Aware Services for Cargo Transportation Dalė Dzemydienė, Aurelija Burinskienė, Kristina Čižiūnienė, Arūnas Miliauskas, 2022-09-02 With a focus on cargo transportation this book addresses the development of approaches intended to secure an infrastructure of smart services to support the adaptive implementation of online multi modal freight transport management processes It discusses the development of multi criteria decision making components and their integration into the multi layered computer based information management of intelligent systems Through detailed descriptions of various components of intelligent transport management systems the book demonstrates how to develop the services needed in the right place and at the right time and how to properly adapt to user needs making necessary interventions to ensure the safety of the transportation process Further it describes the main ways to increase the autonomy and efficiency of user vehicle interaction and shows how Information and Communications Technology ICT structural support for current and past situations in AI based systems can help to anticipate future developments in freight Handbook of Triboelectric Nanogenerators Zhong Lin Wang, Ya Yang, Junyi Zhai, Jie Wang, 2023-08-25 transportation This handbook comprehensively covers the rapidly evolving field of power generation using triboelectric nanogenerators Since their emergence in 2012 triboelectric nanogenerators have experienced fast development both in fundamental science aspects and technological innovations resulting in a plethora of outstanding applications and commercial opportunities in e.g. micro nano energy systems self powered sensors blue energy and high voltage power sources The Handbook of Triboelectric Nanogenerators provides an indispensable overview of the state of the art in the field It begins with a review of the physical and technological fundamentals and provides detailed coverage of triboelectric nanogenerators for cutting edge applications from wearable electronics and medical implants to smart home sensing devices and human machine interfacing Edited and authored by active researchers in the field the handbook offers a wealth of information for applied physicists and chemists as well as materials scientists and engineers In addition mechanical and electronic engineers working in the fields of energy scavenging power sources and sensor related application development will benefit greatly from the technical information presented in this groundbreaking reference work Guidebook for direct access entities engaging in the Green Climate Fund accreditation process Food and Agriculture Organization of the United Nations, 2021-02-25 This document was prepared by the FAO Regional Office for Europe and Central Asia REU in close collaboration with FAO's Climate and Environment Division CBC in the frames of the second project of the Republic of North Macedonia under the Green Climate Fund Readiness and Preparatory Support Programme implemented by FAO under guidance and leadership of the Cabinet of the Deputy President of the Government of North Macedonia as National Designated Authority NDA to the GCF The document aims to provide the main quidelines that potential entities should consider before engaging in the Green Climate Fund GCF accreditation process It includes a brief description of the main steps of the GCF accreditation process information on the most relevant policies as well as an explanation of each section of the accreditation form Materials Engineering And Environmental Science - Proceedings Of The 2015 International Conference (Mees2015) Oingzhou Xu,2016-03-30 This book consists of one hundred and nine selected papers presented at the 2015 International Conference on Materials Engineering and Environmental Science MEES2015 which was successfully held in Wuhan China during September 25 27 2015 All papers selected for this proceedings were subjected to a rigorous peer review process by at least two independent peers The papers were selected based on innovation organization and quality of presentation The MEES2015 covered a wide spectrum of research topics ranging from fundamental studies technical innovations to industrial applications in Chemical Material and Chemical Processing Technology Composite Materials Alloy Materials and Metal Materials Characteristics of Materials Building Material and Construction Technology Ecology and Environment Technology for Environmental Protection Economy and Environment Mechanical and Control Engineering and Manufacturing Technology The MEES2015 brought together more than one hundred researchers from China South Korea Taiwan Japan Malaysia and Saudi Arabia and provided them with a forum to share exchange and discuss new scientific development and future directions of Materials Engineering Sovbean Physiology and Genetics, 2022-04-20 Sovbean Physiology and Genetics Volume 102 and Environmental Science presents comprehensive reviews on the latest development in soybean research covering soybean genomics physiology and genetics under biotic and abiotic stress growth and development nitrogen fixation and nutritional values etc Chapters in this new release cover Root Physiology and Morphology in Relationship to Stress Tolerance Soybean Insects Application of Genomic Studies in Soybean Breeding Secondary metabolism in soybean The roles of CLE peptides in nitrogen fixation in soybean Seed morphology in soybean Physiology and genetic regulations of oil and protein contents in soybean Regulation of flowering and maturation in soybean and much more As soybeans are a key component in climate smart agriculture because of their high nutritional value large cultivation area and nitrogen fixing ability this book fills a gap in information on this growing commodity Presents a comprehensive review of the most up to date soybean research Covers the most concerned topics in soybean research including genomics abiotic and biotic stresses physiology nutritional values nitrogen fixation and more Explores the unique features of soybean that are beneficial for climate smart agriculture *Agronomic Crops* Mirza Hasanuzzaman, 2019-11-23 Agronomic crops have provided food beverages fodder fuel medicine and industrial raw materials since the beginning of human civilization More recently agronomic crops have been cultivated using scientific rather than traditional methods However in the current era of climate change agronomic crops are suffering from different environmental stresses that result in substantial yield loss To meet the food demands of the ever increasing global population new technologies and management practices are being adopted to boost yields and maintain productivity under both normal and adverse conditions Further in the context of sustainable agronomic crop production scientists are adopting new approaches such as varietal development soil management nutrient and water management and pest management

Researchers have also made remarkable advances in developing stress tolerance in crops However the search for appropriate solutions for optimal production to meet the increasing food demand is still ongoing Although there are several publications on the recent advances in these areas there are few comprehensive resources available covering all of the recent topics This timely book examines all aspects of production technologies management practices and stress tolerance of The Routledge Handbook of Accounting Information Systems Erik Strauss, Martin Quinn, 2022-11-25 The Routledge Handbook of Accounting Information Systems is a prestige reference work offering a comprehensive overview of the state of current knowledge and emerging scholarship in the discipline of AIS The pace of technological driven change is rapid and this revised edition provides a deeper focus on the technical underpinnings and organisational consequences of accounting information systems It has been updated to capture the changes in technology since the previous edition It now includes chapters and scholarly thought on artificial intelligence predictive analytics and data visualisation among others Contributions from an international cast of authors provide a balanced overview of established and developing themes identifying issues and discussing relevant debates The chapters are analytical and engaging Many chapters include cases or examples and some provide additional resources for readers The chapters also provide a reflection on where the research agenda is likely to advance in the future This is a complete and indispensable guide for students and researchers in accounting and accounting information systems academics and students seeking convenient access to an unfamiliar area as well as established researchers seeking a single repository on the current debates and literature in the field

Uncertainty, Modeling, and Decision Making in Geotechnics Kok-Kwang Phoon, Takayuki Shuku, Jianye Ching, 2023-12-11 Uncertainty Modeling and Decision Making in Geotechnics shows how uncertainty quantification and numerical modeling can complement each other to enhance decision making in geotechnical practice filling a critical gap in guiding practitioners to address uncertainties directly The book helps practitioners acquire a working knowledge of geotechnical risk and reliability methods and guides them to use these methods wisely in conjunction with data and numerical modeling In particular it provides guidance on the selection of realistic statistics and a cost effective accessible method to address different design objectives and for different problem settings and illustrates the value of this to decision making using realistic examples Bringing together statistical characterization reliability analysis reliability based design probabilistic inverse analysis and physical insights drawn from case studies this reference guide from an international team of experts offers an excellent resource for state of the practice uncertainty informed geotechnical design for specialist practitioners and the research community and Utilization of Combustion and Incineration Residues Lei Wang, Dan Tsang, Jianhua Yan, 2024-05-25 Treatment and Utilization of Combustion and Incineration Residues introduces state of art strategies for combustion and incineration solid residue management and utilization The book also reviews current technologies for pollutant removal and control of combustion and incineration residues Recycling ashes and slags in

sustainable construction materials are also evaluated on environmental impacts and engineering values and the use of different ashes and slags in cement clinker production is classified based on the sources and properties of the residues In addition the recovery of valuable metals and inorganic elements is also discussed Finally Treatment and Utilization of Combustion and Incineration Residues examines the latest understanding of reaction mechanisms of various treatment technologies is elaborated to foster the future design of treatment technologies and the actualization of sustainable management for combustion incineration residues Provides systematical classification and introduction of combustion incineration solid residues Introduces the detoxification and purification technologies of hazardous combustion incineration ashes and slags Highlights the treatment and recycling approaches of combustion and incineration residues in cement clinker production and sustainable construction materials manufacture Provides systematical classification and introduction of combustion incineration solid residues Introduces the detoxification and purification technologies of hazardous combustion incineration ashes and slags Highlights the treatment and recycling approaches of combustion and incineration residues in cement clinker production and sustainable construction materials manufacture **RAMIRAN 2023: Managing Organic** Resources in a Changing Environment Rachel E. Thorman, David Robert Chadwick, Tom Misselbrook, Fiona Nicholson ,Harald Menzi,2025-08-12 This Research Topic of Frontiers Waste Management in Agroecosystems will highlight original contributions to the 18th International RAMIRAN conference held in Cambridge UK in September 2023 The conference will focus on developing strategies to maximise the efficiency of organic materials against a background of changing regulation policy and market forces and increasing pressure on the environment soil quality and food production Submissions are invited for papers which address one or more of the conference themes policy and regulation nutrient utilisation soil quality air and water quality treatment and processing technologies and promoting best practice

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