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# Optics Photonics 2015 Sustainable Symposium

**Anandakumar Haldorai, Arulmurugan  
Ramu, Sudha Mohanram, Chow Chee  
Onn**



## **Optics Photonics 2015 Sustainable Symposium:**

*Second International Conference on Sustainable Technologies for Computational Intelligence* Ashish Kumar Luhach, Ramesh Chandra Poonia, Xiao-Zhi Gao, Dharm Singh Jat, 2021-10-18 This book gathers high quality papers presented at the Second International Conference on Sustainable Technologies for Computational Intelligence ICTSCI 2021 held at Graphic Era University Dehradun India during May 22 23 2021 It covers emerging topics in computational intelligence and effective strategies for its implementation in engineering applications

**EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing** Anandakumar Haldorai, Arulmurugan Ramu, Sudha Mohanram, Chow Chee Onn, 2019-10-18 This proceeding features papers discussing big data innovation for sustainable cognitive computing The papers feature detail on cognitive computing and its self learning systems that use data mining pattern recognition and natural language processing NLP to mirror the way the human brain works This international conference focuses on cognitive computing technologies from knowledge representation techniques and natural language processing algorithms to dynamic learning approaches Topics covered include Data Science for Cognitive Analysis Real Time Ubiquitous Data Science Platform for Privacy Preserving Data Science and Internet Based Cognitive Platform The EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing BDCC 2018 took place on 13 15 December 2018 in Coimbatore India

*1st International Conference on Lifelong Education and Leadership for ALL-ICLEL 2015* Assoc. Prof. Dr. Osman TITREK, Ress. Asst. Gözde Sezen Gültekin, Dr. Subhan EKŞİOĞLU, Asst. Prof. Dr. Demet ZAFER GÜNEŞ, Asst. Prof. Dr. Regec VOJTECH, 2016-03-01 Copyright 2015 ICLEL Conferences All rights reserved by ICLEL Conferences *Intelligent Computing Applications for Sustainable Real-World Systems* Manjaree Pandit, Laxmi Srivastava, Ravipudi Venkata Rao, Jagdish Chand Bansal, 2020-04-03 This book delves into various solution paradigms such as artificial neural network support vector machine wavelet transforms evolutionary computing swarm intelligence During the last decade novel solution technologies based on human and species intelligence have gained immense popularity due to their flexible and unconventional approach New analytical tools are also being developed to handle big data processing and smart decision making The idea behind compiling this work is to familiarize researchers academicians industry persons and students with various applications of intelligent techniques for producing sustainable cost effective and robust solutions of frequently encountered complex real world problems in engineering and science disciplines The practical problems in smart grids communication waste management elimination of harmful elements from nature etc are identified and smart and optimal solutions are proposed

**Sustainable Farming through Machine Learning** Suneeta Satpathy, Bijay Kumar Paikaray, Ming Yang, Arun Balakrishnan, 2024-11-25 This book explores the transformative potential of machine learning ML technologies in agriculture It delves into specific applications such as crop monitoring disease detection and livestock management demonstrating how artificial intelligence machine learning AI ML can optimize resource management and improve overall productivity in farming

practices Sustainable Farming through Machine Learning Enhancing Productivity and Efficiency provides an in depth overview of AI and ML concepts relevant to the agricultural industry It discusses the challenges faced by the agricultural sector and how AI ML can address them The authors highlight the use of AI ML algorithms for plant disease and pest detection and examine the role of AI ML in supply chain management and demand forecasting in agriculture It includes an examination of the integration of AI ML with agricultural robotics for automation and efficiency The authors also cover applications in livestock management including feed formulation and disease detection they also explore the use of AI ML for behavior analysis and welfare assessment in livestock Finally the authors also explore the ethical and social implications of using such technologies This book can be used as a textbook for students in agricultural engineering precision farming and smart agriculture It can also be a reference book for practicing professionals in machine learning and deep learning working on sustainable agriculture applications

**International Conference on Artificial Intelligence and Sustainable Engineering** Goutam Sanyal, Carlos M. Travieso-González, Shashank Awasthi, Carla M. A. Pinto, B. R. Purushothama, 2022-05-03 This book comprises select papers from the International Conference on Artificial Intelligence and Sustainable Engineering AISE 2020 The volume focuses on the recent advancements in artificial intelligence and addresses how it is useful in achieving truly sustainable solutions The key strands of this book include artificial intelligence in healthcare IoT for modern life security and surveillance big data analytics machine learning and computing communication technologies gesture technology virtual intelligence and audio speech processing The book addresses sustainability challenges in various computing techniques and opportunities for sustainable engineering based on AI and supporting tools such as engineering design for sustainable development using IoT AI smart cities waste minimization remanufacturing reuse and recycling technologies using IoT AI industry 4 0 intelligent and smart grid systems energy conservation using technology green engineering technology robotic process automation RPA and water and air quality management This book can be a valuable resource for academicians researchers and professionals working in AI and its applications

**Proceedings of the International Conference on Computational Intelligence and Sustainable Technologies** Kedar Nath Das, Debasish Das, Anjan Kumar Ray, Ponnuthurai Nagaratnam Suganthan, 2022-02-12 This book presents the collection of the accepted research papers presented in the 1st International Conference on Computational Intelligence and Sustainable Technologies ICoCIST 2021 This edited book contains the articles related to the themes on artificial intelligence in machine learning big data analysis soft computing techniques pattern recognitions sustainable infrastructural development sustainable grid computing and innovative technology for societal development renewable energy and innovations in Internet of Things IoT

**Green, Energy-Efficient and Sustainable Networks** Josip Lorincz, Antonio Capone, Luca Chiaraviglio, Jinsong Wu, 2020-01-21 The book Green Energy Efficient and Sustainable Networks provides insights and solutions for a range of problems in the field of obtaining greener energy efficient and sustainable networks The book

contains the outcomes of the Special Issue on Green Energy Efficient and Sustainable Networks of the Sensors journal Seventeen high quality papers published in the Special Issue have been collected and reproduced in this book demonstrating significant achievements in the field Among the published papers one paper is an editorial and one is a review while the remaining 15 works are research articles The published papers are self contained peer reviewed scientific works that are authored by more than 75 different contributors with both academic and industry backgrounds The editorial paper gives an introduction to the problem of information and communication technology ICT energy consumption and greenhouse gas emissions presenting the state of the art and future trends in terms of improving the energy efficiency of wireless networks and data centers as the major energy consumers in the ICT sector In addition the published articles aim to improve energy efficiency in the fields of software defined networking Internet of things machine learning authentication energy harvesting wireless relay systems routing metrics wireless sensor networks device to device communications heterogeneous wireless networks and image sensing The last paper is a review that gives a detailed overview of energy efficiency improvements and methods for the implementation of fifth generation networks and beyond This book can serve as a source of information in industrial teaching and or research and development activities The book is a valuable source of information since it presents recent advances in different fields related to greening and improving the energy efficiency and sustainability of those ICTs particularly addressed in this book

**Optical Sensing in Power Transformers** Jun Jiang,Guoming Ma,2020-12-07 A cutting edge advanced level exploration of optical sensing application in power transformers Optical Sensing in Power Transformers is filled with the critical information and knowledge on the optical techniques applied in power transformers which are important and expensive components in the electric power system Effective monitoring of systems has proven to decrease the transformer lifecycle cost and increase a high level of availability and reliability It is commonly held that optical sensing techniques will play an increasingly significant role in online monitoring of power transformers In this comprehensive text the authors noted experts on the topic present a scholarly review of the various cutting edge optical principles and methodologies adopted for online monitoring of power transformers Grounded in the authors extensive research the book examines optical techniques and high voltage equipment testing and provides the foundation for further application prototype and manufacturing The book explores the principles installation operation condition detection monitoring and fault diagnosis of power transformers This important text Provides a current exploration of optical sensing application in power transformers Examines the critical balance and pros and cons of cost and quality of various optical condition monitoring techniques Presents a wide selection of techniques with appropriate technical background Extends the vision of condition monitoring testing and analysis Treats condition monitoring testing and analysis tools together in a coherent framework Written for researchers technical research and development personnel manufacturers and frontline engineers Optical Sensing in Power Transformers offers an up to date review of the most recent developments of optical

sensing application in power transformers

### **International Conference on Advanced Intelligent Systems for**

**Sustainable Development** Janusz Kacprzyk, Mostafa Ezziyani, Valentina Emilia Balas, 2023-06-08 This book describes the potential contributions of emerging technologies in different fields as well as the opportunities and challenges related to the integration of these technologies in the socio economic sector In this book many latest technologies are addressed particularly in the fields of computer science and engineering The expected scientific papers covered state of the art technologies theoretical concepts standards product implementation ongoing research projects and innovative applications of Sustainable Development This new technology highlights the guiding principle of innovation for harnessing frontier technologies and taking full profit from the current technological revolution to reduce gaps that hold back truly inclusive and sustainable development The fundamental and specific topics are Big Data Analytics Wireless sensors IoT Geospatial technology Engineering and Mechanization Modeling Tools Risk analytics and preventive systems EcoDesign and Sustainability I Yusuke Kishita, Mitsutaka Matsumoto, Masato Inoue, Shinichi Fukushige, 2020-11-02 This book highlights cutting edge ecodesign research covering product and service design smart manufacturing and social perspectives in ecodesign Featuring selected papers presented at EcoDesign 2019 11th International Symposium on Environmentally Conscious Design and Inverse Manufacturing it also includes diverse interdisciplinary approaches to foster ecodesign research and activities In the context of Sustainable Development Goals SDGs it addresses the need for the manufacturing industry to design innovations for sustainable value creation taking into account technological developments legislation and consumer lifestyles Further the book discusses the concept of circular economy which originated in Europe and aims to increase resource efficiency by shifting away from the linear economy Focusing on product life cycle design and management smart manufacturing circular economy and business strategies and providing useful approaches and solutions to these emerging concepts this book is intended for both researchers and practitioners working in the broad field of ecodesign and sustainability *Design for Sustainability* S. M. Sapuan, Muhd Ridzuan Mansor, 2021-03-13 Design for Sustainability Green Materials and Processes provides fundamental and practical knowledge surrounding product development applications throughout the entire lifecycle of green materials ranging from conceptual design material and manufacturing process selection and environmental lifecycle assessment In addition several topics covering recent advances in the application of sustainable design within the automotive building and construction packaging and consumer product industries are also included in this book to provide practical examples of this philosophy in current applications Lastly a section on implementation of design for sustainability in education is added to aid readers that wish to introduce this philosophy to younger students This book will be beneficial to researchers students in higher education institutions design practitioners and engineers in private and public sector organization with aspirations to develop sustainable products in the future Design for sustainability is one of the primary focuses in human advancement nowadays with the aim of developing products and

services that meet the needs of the present without compromising the ability of future generations to meet their own needs Provides an overview on materials and process design for sustainability Discusses theoretical aspects about design for sustainability Includes a discussion of the most recent advances and applications in design for sustainability **Machine Intelligence and Data Analytics for Sustainable Future Smart Cities** Uttam Ghosh,Yassine Maleh,Mamoun Alazab,Al-Sakib Khan Pathan,2021-05-31 This book presents the latest advances in computational intelligence and data analytics for sustainable future smart cities It focuses on computational intelligence and data analytics to bring together the smart city and sustainable city endeavors It also discusses new models practical solutions and technological advances related to the development and the transformation of cities through machine intelligence and big data models and techniques This book is helpful for students and researchers as well as practitioners International Conference on Advances in Power Generation from Renewable Energy Sources (APGRES-2020) Editor in Chief Dr. D. Dhalin Editor Dr. Veeresh Fuskele Dr. Shiv Lal Dr. B. L. Gupta,2020-03-04 International Conference on Advances in Power Generation from Renewable Energy Sources APGRES 2020 **Soft Computing Based Medical Image Analysis** Nilanjan Dey,Amira S. Ashour,Fuquian Shi,Valentina Emilia Balas,2018-01-18 Soft Computing Based Medical Image Analysis presents the foremost techniques of soft computing in medical image analysis and processing It includes image enhancement segmentation classification based soft computing and their application in diagnostic imaging as well as an extensive background for the development of intelligent systems based on soft computing used in medical image analysis and processing The book introduces the theory and concepts of digital image analysis and processing based on soft computing with real world medical imaging applications Comparative studies for soft computing based medical imaging techniques and traditional approaches in medicine are addressed providing flexible and sophisticated application oriented solutions Covers numerous soft computing approaches including fuzzy logic neural networks evolutionary computing rough sets and Swarm intelligence Presents transverse research in soft computing formation from various engineering and industrial sectors in the medical domain Highlights challenges and the future scope for soft computing based medical analysis and processing techniques Sustainable Material Forming and Joining R.Ganesh Narayanan,Jay S Gunasekera,2019-02-06 The main objective of the book is to expose readers to the basics of sustainable material forming and joining technologies and to discuss the relationship between conventional and sustainable processes It also provides case studies for sustainable issues in material forming and joining processes workouts for converting conventional processes to green processes and highlights the importance of awareness on sustainable and green manufacturing through education The book will include green and sustainability concepts in material forming like bulk forming and sheet forming emphasizing hot forming materials development lubrication and minimizing defects Key Features Conceptualizes green and sustainability issues towards efficient material forming and joining Addresses important aspects of sustainable manufacturing by forming operations Presents comparison between traditional and

sustainable manufacturing processes Includes practical case studies from industry experts Discusses green and sustainability concepts in material forming like bulk forming and sheet forming emphasizing hot forming materials development lubrication and minimizing defects      **Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations**

Hiroshi Yokota,Dan M. Frangopol,2021-04-20 Bridge Maintenance Safety Management Life Cycle Sustainability and Innovations contains lectures and papers presented at the Tenth International Conference on Bridge Maintenance Safety and Management IABMAS 2020 held in Sapporo Hokkaido Japan April 11 15 2021 This volume consists of a book of extended abstracts and a USB card containing the full papers of 571 contributions presented at IABMAS 2020 including the T Y Lin Lecture 9 Keynote Lectures and 561 technical papers from 40 countries The contributions presented at IABMAS 2020 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of maintenance safety management life cycle sustainability and technological innovations of bridges Major topics include advanced bridge design construction and maintenance approaches safety reliability and risk evaluation life cycle management life cycle sustainability standardization analytical models bridge management systems service life prediction maintenance and management strategies structural health monitoring non destructive testing and field testing safety resilience robustness and redundancy durability enhancement repair and rehabilitation fatigue and corrosion extreme loads and application of information and computer technology and artificial intelligence for bridges among others This volume provides both an up to date overview of the field of bridge engineering and significant contributions to the process of making more rational decisions on maintenance safety management life cycle sustainability and technological innovations of bridges for the purpose of enhancing the welfare of society The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems including engineers researchers academics and students from all areas of bridge engineering      Developing and Applying Optoelectronics in Machine Vision Sergiyenko,

Oleg,Rodriguez-Quiñonez, Julio C.,2016-08-01 Sensor technologies play a large part in modern life as they are present in security systems digital cameras smartphones and motion sensors While these devices are always evolving research is being done to further develop this technology to help detect and analyze threats perform in depth inspections and perform tracking services Developing and Applying Optoelectronics in Machine Vision evaluates emergent research and theoretical concepts in scanning devices and 3D reconstruction technologies being used to measure their environment Examining the development of the utilization of machine vision practices and research optoelectronic devices and sensor technologies this book is ideally suited for academics researchers students engineers and technology developers      **Proceedings of the Canadian Society of Civil Engineering Annual Conference 2021** Scott Walbridge,Mazdak Nik-Bakht,Kelvin Tsun Wai Ng,Manas Shome,M. Shahria Alam,Ashraf el Damatty,Gordon Lovegrove,2022-05-17 This book comprises the proceedings of the Annual Conference of the Canadian Society of Civil Engineering 2021 The contents of this volume focus on specialty

conferences in construction environmental hydrotechnical materials structures transportation engineering etc This volume will prove a valuable resource for those in academia and industry      *Proceedings of the 6th International Conference on Advance Computing and Intelligent Engineering* Bibudhendu Pati, Chhabhi Rani Panigrahi, Prasant Mohapatra, Kuan-Ching Li, 2022-09-21 This book gathers high quality research papers presented at the 6th International Conference on Advanced Computing and Intelligent Engineering ICACIE 2021 organized by Bhubaneswar Institute of Technology Bhubaneswar Odisha India during December 23 24 2021 It includes sections describing technical advances and the latest research in the fields of computing and intelligent engineering Intended for graduate students and researchers working in the disciplines of computer science and engineering the proceedings also appeal to researchers in the field of electronics as they cover hardware technologies and future communication technologies

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