

30th Ibima Conference International Business Information

Retrofitting expresses, in a traditional approach, the process of improving something after it has been manufactured, constructed, or assembled. These systems integrate new technologies, new functions, and new services that increase the energy performance in existing private, public, and commercial buildings. Retrofitting for Optimal Energy Performance is a comprehensive reference source that examines environmentally conscious technologies and their applications in advancing retrofitting practices. Providing relevant theoretical frameworks and the latest empirical research findings in the area, it highlights an array of topics such as climate change, energy management, and optimization modeling, and is essential for academicians, students, researchers, engineers, architects, entrepreneurs, managers, policymakers, and building owners.

This proceedings book addresses the main issues of contemporary political geography and international relations, providing a platform for discussion and collaboration of experts in the fields of Political Geography, Geopolitics, International Relations, and International Law. Participants from all over the world consider the controversies and challenges posed by globalization, focusing, in particular, on the ideologies of globalization and regionalism, migration crises, prevention of ethnic conflicts, and measures to counteract racism, xenophobia, and extremism

This book gathers selected papers presented at the 2019 International Conference on Integrated Science in Digital Age (ICIS 2019), which was jointly supported by the Institute of Certified Specialists (ICS), Russia and Springer and held in Batumi, Georgia on May 10–12, 2019. The ICIS 2019 received roughly 50 contributions, by authors hailing from six countries. Following a peer-review process, the Scientific Committee – a multidisciplinary group of 110 experts from 38 countries around the globe – selected roughly 60% for publication. The main topics covered include: Artificial Intelligence Research; Digital Business & Finance; Educational Sciences; Health Management Informatics; Public Administration in the Digital Age; and Social Problem-solving.

This two-volume book presents an unusually diverse selection of research papers, covering all major topics in the fields of information and communication technologies and related sciences. It provides a wide-angle snapshot of current themes in information and power engineering, pursuing a cross-disciplinary approach to do so. The book gathers revised contributions that were presented at the 2018 International Conference: Sciences of Electronics, Technologies of Information and Telecommunication (SETIT'18), held on 20–22 December 2018 in Hammamet, Tunisia. This eighth installment of the event attracted a wealth of submissions, and the papers presented here were selected by a committee of experts and underwent additional, painstaking revision. Topics covered include: · Information Processing · Human-Machine Interaction · Computer Science · Telecommunications and Networks · Signal Processing · Electronics · Image and Video This broad-scoped approach is becoming increasingly popular in scientific publishing. Its aim is to encourage scholars and professionals to overcome disciplinary barriers, as demanded by current trends in the industry and in the consumer market, which are rapidly leading toward a convergence of data-driven applications, computation, telecommunication, and energy awareness. Given its coverage, the book

will benefit graduate students, researchers and practitioners who need to keep up with the latest technological advances. This book contains original and fundamental research papers in the following areas: engineering technologies for precision agriculture, agricultural systems management and digitalization in agriculture, logistics in agriculture, and other topics. Selected materials of the largest regional scientific event—INTERAGROMASH 2021 conference—included in this book present the results of the latest research in the areas of precision agriculture and agricultural machinery industry. The book is aimed for professionals and practitioners, for researchers, scholars, and producers. The materials presented here are used in the educational process at specific agricultural universities or during vocational training at enterprises and become an indispensable helper to farm managers in making the best agronomic decisions. The book is also useful for representatives of regional authorities, as it gives an idea of existing high-tech solutions for agriculture.

This book presents a range of qualitative and quantitative analyses in areas such as cybersecurity, sustainability, multivariate analysis, customer satisfaction, parametric programming, software reliability growth modeling, and blockchain technology, to name but a few. It also highlights integrated methods and practices in the areas of machine learning and genetic algorithms. After discussing applications in supply chains and logistics, cloud computing, six sigma, production management, big data analysis, satellite imaging, game theory, biometric systems, quality, and system performance, the book examines the latest developments and breakthroughs in the field of science and technology, and provides novel problem-solving methods. The themes discussed in the book link contributions by researchers and practitioners from different branches of engineering and management, and hailing from around the globe. These contributions provide scholars with a platform to derive maximum utility in the area of analytics by subscribing to the idea of managing business through system sciences, operations, and management. Managers and decision-makers can learn a great deal from the respective chapters, which will help them devise their own business strategies and find real-world solutions to complex industrial problems.

The book presents a collection of 103 peer-reviewed articles from the Second International Conference on Intelligent Systems in Production Engineering and Maintenance (ISPEM 2018). The conference was organized by the Faculty of Mechanical Engineering and CAMT (Centre for Advanced Manufacturing Technologies), Wrocław University of Science and Technology and was held in Wrocław (Poland) on 17–18 September 2018. The conference topics included the possibility of using a wide range of intelligent methods in production engineering, presenting and discussing new solutions for innovative plants, research findings and case studies demonstrating advances in production and maintenance from the point of view of Industry 4.0 – particularly applications of intelligent systems, methods and tools in production engineering, maintenance, logistics, quality management, information systems and product development. The book is divided into two parts: the first includes papers related to intelligent systems in production engineering, while the second is dedicated to special sessions focusing on: 1. Computer Aided methods in Production Engineering 2. Mining 4.0 and Intelligent Mining Transportation 3. Modelling and Simulation of Production Processes 4. Multi-Faceted Modelling of Networks and Processes 5. Product Design and Product Manufacturing in Industry 4.0 This book is an

excellent source of information for scientists in the field of manufacturing engineering and for top managers in production enterprises.

XIV International Scientific Conference "INTERAGROMASH 2021" Precision Agriculture and Agricultural Machinery Industry, Volume 1 Springer Nature

?The European Conference on Innovation and Entrepreneurship has been running now for 16 years. This event has been held in Italy, Northern Ireland, France, Belgium, Portugal, and Finland to mention some of the countries who have hosted it. The conference is generally attended by participants from more than 40 countries and attracts an interesting combination of academic scholars, practitioners and individuals who are engaged in various aspects of innovation and entrepreneurship teaching and research. The 16th European Conference on Innovation and Entrepreneurship will be hosted by Instituto Universitário de Lisboa (ISCTE), Portugal and the Conference Chair will be Florinda Matos

?These proceedings represent the work of contributors to the 17th International Conference on Intellectual Capital, Knowledge Management & Organisational Learning (ICICKM 2020), hosted by ACI and the University of Toronto, Canada on 15-16 October 2020. The Conference Chairs are Dr. Anthony Wensley, from the University of Toronto and Dr. Max Evans, from McGill University. The Programme Chair is Dr. Ilja Frissen from McGill University.

This book constitutes the joint refereed proceedings of the 20th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networks and Systems, NEW2AN 2020, and the 13th Conference on Internet of Things and Smart Spaces, ruSMART 2020. The conference was held virtually due to the COVID-19 pandemic. The 79 revised full papers presented were carefully reviewed and selected from 225 submissions. The papers of NEW2AN address various aspects of next-generation data networks, with special attention to advanced wireless networking and applications. In particular, they deal with novel and innovative approaches to performance and efficiency analysis of 5G and beyond systems, employed game-theoretical formulations, advanced queuing theory, and stochastic geometry, while also covering the Internet of Things, cyber security, optics, signal processing, as well as business aspects. ruSMART 2020, provides a forum for academic and industrial researchers to discuss new ideas and trends in the emerging areas.

Fierce competition in today's global market offers a powerful motivation for developing even more sophisticated and multi-functional technology tools. Implementing these specific techniques and strategies benefits global economics and contributes to the harmonization of economic interests at the micro- and macro-levels. Avatar-Based Models, Tools, and Innovation in the Digital Economy is an essential reference source that provides a critical analysis of avatar-based models, tools, and neuro natural platforms and features developments in terms of the application of these theories and methodologies to the communication and socio-economic sphere. Featuring research on topics such as digital communications, economic development, and consumer management, this book is ideally designed for students, researchers, industry professionals, and academicians seeking coverage on combining the use of intelligence artificial and natural approaches to a variety of communication technologies.

Even though blockchain technology was originally created as a ledger system for bitcoin to operate on, using it for areas other than

cryptocurrency has become increasingly popular as of late. The transparency and security provided by blockchain technology is challenging innovation in a variety of businesses and is being applied in fields that include accounting and finance, supply chain management, and education. With the ability to perform such tasks as tracking fraud and securing the distribution of medical records, this technology is key to the advancement of many industries.

The **Research Anthology on Blockchain Technology in Business, Healthcare, Education, and Government** is a vital reference source that examines the latest scholarly material on trends, techniques, and uses of blockchain technology applications in a variety of industries, and how this technology can further transparency and security. Highlighting a range of topics such as cryptography, smart contracts, and decentralized blockchain, this multi-volume book is ideally designed for academics, researchers, industry leaders, managers, healthcare professionals, IT consultants, engineers, programmers, practitioners, government officials, policymakers, and students.

This book constitutes the revised and extended papers of the First International Conference on Innovations in Digital Economy, SPBU IDE 2019, held in St. Petersburg, Russia, in October 2019. The 8 papers presented were thoroughly reviewed and selected for publication from 78 submissions. The papers are organized according the following topical sections: economic efficiency and social consequences of digital innovations implementation; industrial, service and agricultural digitalization; regional innovation systems and clusters as drivers of the economic growth during the Fourth Industrial Revolution; response of an educational system and labor market to the digital-driven changes in the economic system.

This book presents selected papers from the 30th Eurasia Business and Economics Society (EBES) Conferences, held in Kuala Lumpur (Malaysia). The theoretical and empirical papers gathered here cover diverse areas of business, economics and finance in various geographic regions, including not only topics from HR, management, finance, marketing but also contributions on public economics, political economy and regional studies.

This book contains the results of the latest research on energy-related topics in transportation, economics, and management. The book is composed of select research proceedings of the EMMFT 2019 conference, and covers such issues as energy efficiency in the transport sector, infrastructure, mobile equipment, rail transportation safety and reliability assessment methods, communication and signal, traction power supply, operation organization, and modeling unique transport scenarios. This book also gathers cutting-edge studies on the relationship between energy innovations and economic growth, the impacts of globalization and energy policies of countries on economics and environmental quality, and design and analysis of energy management systems. This book is of considerable interest to engineers, scientists, graduate students, and researchers in the field of transportation engineering, as well as to professionals working in the energy industries. It is also of use to employees and investors concerned with energy management, including utilities and industry professionals, and regulators.

This book highlights recent findings in industrial, manufacturing and mechanical engineering, and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering are discussed, including the dynamics of machines and working processes, friction, wear and lubrication in machines, surface transport and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems and their industrial applications, industrial mechatronics, automation and robotics. The book gathers selected papers presented at the 5th International Conference on Industrial Engineering (ICIE), held in Sochi, Russia in March 2019. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, the book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates.

This proceedings book contains 21 articles that arouse the greatest interest among experts from academia, industry and scientific experts in the area of the structural transformation of industrial and economic systems on a new technological base. V Scientific International Conference «Technological Transformation: A New Role for Human, Machines and Management (TT-2020)» was held on 16-18 September 2020 in St. Petersburg at the Peter the Great St. Petersburg Polytechnic University. The conference aimed to discuss the results of system studies on the key drivers and consequences of wide digitalization in various sectors of the economy and industry, as well as in the service sector. Topics were presented: New industrial base, Virtual engineering, Diffusion of technology, Digital infrastructure, Supercomputers, Cyberphysical interface and Informatics of cognitive processes, Convergence, harmonization and integration of artificial and natural intelligence, Changing social and economic landscape and new management systems, Digital technologies in logistics, Cyberphysical systems and artificial intelligence.

Melanie Buchmüller befasst sich in diesem Buch mit strategischen Optionen zur Verbesserung der Wertschöpfung innerhalb eines Unternehmens, einschließlich des Risiko- und Prozessmanagements sowie der Produktmodularisierung. Die Autorin untersucht die Erfolgsfaktoren und die Prozesse für eine erfolgreiche Produktmodularisierungsumsetzung und erbringt den Nachweis für die Kosteneinsparung durch die Modularisierung. Berücksichtigt wird hierbei die Nachhaltigkeit im Prozessmanagement und ihre Auswirkung auf die Produktmodularisierung. ?

The book is devoted to substantiating the necessity for starting and supporting the high level of marketing activity of modern healthcare organizations that function in the market conditions under the influence of the competition mechanism. The authors substantiate that state-funded healthcare organizations in Russia, which are the basis of the Russian market of medical services, face the deficit of financial resources and do not have sufficient flexibility for high marketing activity and supporting their competitiveness, which leads to growth of dissatisfaction of society with the

healthcare sphere on the whole and increase of demand for services of private organizations of healthcare. The authors show that a perspective solution to this problem is usage of technologies of public-private partnership, which allow conducting deregulation and attracting private investments into development of state organizations of healthcare, thus creating favorable conditions and stimuli for activation of their marketing activities. Recommendations for application of the mechanism of public-private partnership to development of marketing of healthcare organizations in modern Russia are offered.

This book gathers the best papers presented at the first conference held by the Russian chapter of the Association for Information Systems (AIS). It shares the latest insights into various aspects of the digitalization of the economy and the consequences of transformation in public administration, business and public life. Integrating a broad range of analytical perspectives, including economic, social and, technological, this interdisciplinary book is particularly relevant for scientists, digital technology users, companies and public institutions.

This book systematically examines and quantifies industrial problems by assessing the complexity and safety of large systems. It includes chapters on system performance management, software reliability assessment, testing, quality management, analysis using soft computing techniques, management analytics, and business analytics, with a clear focus on exploring real-world business issues. Through contributions from researchers working in the area of performance, management, and business analytics, it explores the development of new methods and approaches to improve business by gaining knowledge from bulk data. With system performance analytics, companies are now able to drive performance and provide actionable insights for each level and for every role using key indicators, generate mobile-enabled scorecards, time series-based analysis using charts, and dashboards. In the current dynamic environment, a viable tool known as multi-criteria decision analysis (MCDA) is increasingly being adopted to deal with complex business decisions. MCDA is an important decision support tool for analyzing goals and providing optimal solutions and alternatives. It comprises several distinct techniques, which are implemented by specialized decision-making packages. This book addresses a number of important MCDA methods, such as DEMATEL, TOPSIS, AHP, MAUT, and Intuitionistic Fuzzy MCDM, which make it possible to derive maximum utility in the area of analytics. As such, it is a valuable resource for researchers and academicians, as well as practitioners and business experts.

Society is now completely driven by data with many industries relying on data to conduct business or basic functions within the organization. With the efficiencies that big data bring to all institutions, data is continuously being collected and analyzed. However, data sets may be too complex for traditional data-processing, and therefore, different strategies must evolve to solve the issue. The field of big data works as a valuable tool for many different industries. The Research Anthology on Big Data Analytics, Architectures, and Applications is a complete reference source on big data analytics that offers the latest, innovative architectures and frameworks and explores a variety of applications within various industries. Offering an international perspective, the applications discussed within this anthology feature global representation. Covering topics such as advertising curricula, driven supply chain, and smart cities, this research anthology is ideal for data scientists, data analysts, computer engineers, software engineers, technologists, government officials, managers, CEOs, professors, graduate students, researchers, and academicians.

Inclusive Development of Society contains papers that were originally presented at the 2018 International Congress on Management and Technology in Knowledge, Service, Tourism & Hospitality (SERVE 2018), held 6-7 October and 15-16 December 2018 in Kuta, Bali, Indonesia and 18-19 October, 2018 at The Southern Federal University, Rostov-on-don, Russia. The contributions deal with various interdisciplinary research topics, particularly in the fields of social sciences, economics and the arts. The papers focus especially on such topics as language, cultural studies, economics, behavior studies, political sciences, media and communication, psychology and human development. The theoretical research studies included here should provide a solid foundation for the development of new tools that explore the possibilities of developing tourism, hospitality, service industries in Knowledge Economic Era, and the empirical papers will advance our knowledge regarding the impact of information technologies in organizations' and institutions' practices. These proceedings should be of interest to academics and professionals in the wider field of social sciences, including disciplines such as education, psychology, tourism and knowledge management.

This book reports on topics at the interface between manufacturing and materials engineering, with a special emphasis on product design and advanced manufacturing processes, intelligent solutions for Industry 4.0, covers topics in ICT for engineering education, describes the numerical simulation and experimental studies of milling, honing, burnishing, grinding, boring, and turning, as well as the development and implementation of advanced materials. Based on the 4th International Conference on Design, Simulation, Manufacturing: The Innovation Exchange (DSMIE-2021), held on June 8-11, 2021, in Lviv, Ukraine, this first volume of a 2-volume set provides academics and professionals with extensive information on trends, technologies, challenges and practice-oriented experience in the above-mentioned areas.

The book presents the best contributions from the international scientific conference "Growth Poles of the Global Economy: Emergence, Changes and Future," which was organized by the Institute of Scientific Communications (Volgograd, Russia) together with the universities of Kyrgyzstan and various other cities in Russia. The 143 papers selected, focus on spatial and sectorial structures of the modern global economy according to the theory of growth poles. It is intended for representatives of the academic community: university and college staff developing study guides on socio-humanitarian disciplines in connection with the theory of growth poles, researchers, and undergraduates, masters, and postgraduates who are interested in the recent inventions and developments in the field. It is also a valuable resource for expert practitioners managing entrepreneurial structures in the existing and prospective growth poles of the global economy as well as those at international institutes that regulate growth poles. The first part of the book investigates the factors and conditions affecting the emergence of the growth poles of the modern global economy. The second part then discusses transformation processes in the traditional growth poles of the global economy under the influence of the technological progress. The third part examines how social factors affect the formation of new growth poles of the modern global economy. Lastly, the fourth part offers perspectives on the future growth of the global economy on the basis of the digital economy and Industry 4.0.

This proceedings book features selected papers from the 9th National Scientific and Practical Conference "Digital Economy: Complexity and Variety Vs. Rationality," which took place on April 17–18, 2019, in Vladimir (Russian Federation). It presents the latest research in the field of the digital economy, discussing its role in the creation of advantages for the state, entrepreneurship, and society, as well as the emergence of new economic risks. The chapters address the following topics: the importance of economy's digital modernization, tools for the formation of the digital economy in Russia, specific features and perspectives of digital modernization of the regional economy, an overview of the social consequences of transition to the digital economy, financial components of the digital economy, legal challenges regarding the digital reality

for society and state, and the main challenges and threats to the profession of jurisprudence in the context of the digitization of the economy. Intended for representatives of the academic community and researchers interested in the formation of the digital economy and digital society as well as undergraduates, postgraduates, and masters of economic specialties, the book is also a valuable resource for companies that use or wishing to implement digital technologies into their economic practices; and public and government employees involved with monitoring, control, and regulation of the digital economy.

This book provides a systemic view on the digital future from the perspectives of various socio-humanitarian sciences: economics, social sciences, pedagogics and law. Presenting selected papers from the multi-disciplinary international conference “Climate changes and economy of the future: global transformation”, which was held at Pskov State University (Russia) on November 13–14, 2019, it offers a comprehensive overview of the current problems and the future potential of digital transformations of economic activities. This multidisciplinary book includes the latest research on the opportunities of the digital economy and the social and ecological consequences of its implementation, and as such offers a “road map” for development. It also features scientific and practical recommendations to allow effective management of the digitization process according to the current priorities.

Sustainable value management reveals a new space for studying business models. The traditional approach is based on the assumption that the goal of any business is to make money. All decisions regarding supply and production should be made to maximize profit. The discrepancy in creating non-economic value is sometimes the result of separating ownership from control over an enterprise. Although shareholders are interested in maximizing profit, management that actually makes decisions can also pursue other goals. In addition to economic aspects, the management intentions of modern managers are also influenced by factors arising from the organizational culture built, co-created within the organization and sometimes with the participation of external actors such as suppliers and customers. The sources of the creation of social values will be the management intentions of top management, often initiated by the adopted values and rules on the basis of which resources are bound within the structure of the business model. The value of sustainability is based on the identification of those creative sources that relate to economic and social value. Economic value is created through social value and vice versa. This allows the complementarity of the value created to be mutually supportive. The business model that integrates both of these values should be more resistant to crises than the one that is oriented only toward producing economic value. Concurrent implementation of economic and social goals increases resilience and affects the success of modern business models. This is due to the specificity of the business ecosystem that is built as part of the business model, which, in essence, is based on the use of social factors to merge the business model into a complex ecosystem capable of producing value.

This two-volume set constitutes the proceedings of the Third Conference on Creativity in Intellectual Technologies and Data Science, CIT&DS 2019, held in Volgograd, Russia, in September 2019. The 67 full papers, 1 short paper and 3

keynote papers presented were carefully reviewed and selected from 231 submissions. The papers are organized in topical sections in the two volumes. Part I: cyber-physical systems and Big Data-driven world. Part II: artificial intelligence and deep learning technologies for creative tasks; intelligent technologies in social engineering.

For any organization to be successful, it must operate in such a manner that knowledge and information, human resources, and technology are continually taken into consideration and managed effectively. Business concepts are always present regardless of the field or industry – in education, government, healthcare, not-for-profit, engineering, hospitality/tourism, among others. Maintaining organizational awareness and a strategic frame of mind is critical to meeting goals, gaining competitive advantage, and ultimately ensuring sustainability. The Encyclopedia of Organizational Knowledge, Administration, and Technology is an inaugural five-volume publication that offers 193 completely new and previously unpublished articles authored by leading experts on the latest concepts, issues, challenges, innovations, and opportunities covering all aspects of modern organizations. Moreover, it is comprised of content that highlights major breakthroughs, discoveries, and authoritative research results as they pertain to all aspects of organizational growth and development including methodologies that can help companies thrive and analytical tools that assess an organization's internal health and performance. Insights are offered in key topics such as organizational structure, strategic leadership, information technology management, and business analytics, among others. The knowledge compiled in this publication is designed for entrepreneurs, managers, executives, investors, economic analysts, computer engineers, software programmers, human resource departments, and other industry professionals seeking to understand the latest tools to emerge from this field and who are looking to incorporate them in their practice. Additionally, academicians, researchers, and students in fields that include but are not limited to business, management science, organizational development, entrepreneurship, sociology, corporate psychology, computer science, and information technology will benefit from the research compiled within this publication.

These proceedings represent the work of contributors to the 2nd European Conference on the Impact of Artificial Intelligence and Robotics (ECIAIR 2020), hosted by ACI and Instituto Universitário de Lisboa (ISCTE-IUL), Portugal on 22-23 October 2020. The Conference Chair is Dr Florinda Matos, and the Programme Chairs are Dr Ana Maria de Almeida and Prof Isabel Salavisa, all from Instituto Universitário de Lisboa (ISCTE-IUL), Portugal.

Perceived importance of personal and organizational values congruence in the management of organizations have actualized this phenomenon in both theory and practice. Researchers continuously show positive impact of personal and organizational values congruence on employees' behavior, attitudes, organizational climate and organizational performance. Management of organizations are also seeking to apply the solutions to eliminate the gap between

organizational and employees' values. However, arising scientific and practical problems requires to purify the factors that determine values congruence. This challenges for a search of complex and consistent understanding of this phenomenon: from theory to practice. This book aims to provide the reader with a comprehensive overview of the personal and organizational values congruence phenomenon, featuring the most important critical issues regarding the exposure, diagnosis and strengthening of congruence of personal and organizational values.

Recent global shifts in population have led to the fast urbanization of Africa. For Africa and the developing world, choosing the right policy strategies, processes, and tools are essential to turning urban centers into engines of industry and economic prosperity. *Industrial and Urban Growth Policies at the Sub-National, National, and Global Levels* is a pivotal reference source that examines current and evolving conditions of industrial and urban policies and their relationships around the world, especially between developed and developing economies. While highlighting topics such as the Fourth Industrial Revolution, urban policy, and global common good, this publication seeks to deepen and broaden the understanding of transformation in industrial development and responses to emerging urbanization processes. This book is ideally designed for industrial planners, entrepreneurs, urban development authorities, policymakers, academicians, researchers, and students.

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