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Advanced Functional Materials and Devices
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Proceedings of the International Conference on Health Care Systems Engineering *Processing and Characterization of Materials* 13th Chaotic Modeling and Simulation International Conference *Privacy Technologies and Policy Advances in Materials Research* **Proceedings of the 7th International Conference on Advances in Energy Research** *Complex Networks XII Runtime Verification* **Nanooptics and Photonics, Nanochemistry and Nanobiotechnology, and Their Applications** *New Perspectives in Partial Least Squares and Related Methods* *Sustainable Leadership for Entrepreneurs and Academics* **Arts, Research, Innovation and Society Number Theory and Related Fields** **Proceedings of FORM 2021 Problems of Geocosmos-2020** *Complex Networks XI Progress in Systems Engineering* **Proceedings of SECON 2020 1st Karl Schwarzschild Meeting on Gravitational Physics Research and Innovation Forum 2020** **Proceedings of the 2018 Conference of the Computational Social Science Society of the Americas** *Robotics Research Advances in Service Science* *Proceedings of the Regional Conference on Science, Technology and Social Sciences (RCSTSS 2016)* **Diagrammatic Representation and Inference Research & Innovation Forum 2019** *Robotics Research Information Systems and Management Science* **Advances in Energy Research, Vol. 1** **Conference Proceedings of ICDLAIR2019** **Proceedings of the First International Forum on Financial Mathematics and Financial Technology** *International Conference on Reliable Systems Engineering (ICoRSE) - 2021* **Industrial Engineering and Operations Management** **Proceedings of the 7th International Conference on the Applications of Science and Mathematics 2021** *Nanomaterials and Nanocomposites, Nanostructure Surfaces, and Their Applications* Advanced Materials **Digital Transformation Sustaining Tomorrow**

Gathering the proceedings of the 13th CHAOS2020 International Conference, this book highlights recent developments in nonlinear, dynamical and complex systems. The conference was intended to provide an essential forum for Scientists and Engineers to exchange ideas, methods, and techniques in the field of Nonlinear Dynamics, Chaos, Fractals and their applications in General Science and the Engineering Sciences. The respective chapters address key methods, empirical data and computer techniques, as well as major theoretical advances in the applied nonlinear field. Beyond showcasing the state of the art, the book will help academic and industrial researchers alike apply chaotic theory in their studies. This proceedings volume focuses on the business models and higher education schemes in various countries that drive sustainable development. Specifically, it

combines different approaches to issues such as social practices, educational practices, academic policies, energy, sustainable growth, R&D and global security from the point of view of academics, entrepreneurs, policy-makers and NGO representatives. Featuring selected contributions presented at the 2018 PRIZK International Conference on Entrepreneurial and Sustainable Academic Leadership (ESAL2018) held in the Czech Republic, this book combines contributions from both theory and practice providing a unique toolbox of policies for entrepreneurs and academics alike. Our quickly globalizing and stratifying world is marked by such processes as economic interconnectedness, digitalization, micro targeting and spillover causation. In such an environment, there is a great need for strategies and tools for securing future sustainable development in both business and education. In this regard, leadership is one of the crucial elements in achieving these goals seemingly and simultaneously. The goal of the 2018 PRIZK International ESAL Conference and the enclosed contributions is to explore different strategies and policies that drive sustainable development in entrepreneurial and academic leadership. Featuring research from fields such as business, economics, education, social sciences, psychology and behavioral sciences, this book is a useful reference for students, academics, scholars, researchers and policy makers in leadership, entrepreneurship, education and sustainability. This book presents selected papers from the 6th International Conference on Advances in Energy Research (ICAER 2017), which cover topics ranging from energy optimization, generation, storage and distribution, and emerging technologies, to energy management, policy, and economics. The book is interdisciplinary in scope and addresses a host of different areas relevant to energy research, making it of interest to scientists, policymakers, students, economists, rural activists, and social scientists alike. This book constitutes the refereed proceedings of the 18th International Conference on Runtime Verification, RV 2018, held in Limassol, Cyprus, in November 2018. The 21 full papers presented together with 3 short papers and 3 tool papers were carefully reviewed and selected from 49 submissions. The RV conference is concerned with all aspects of monitoring and analysis of hardware, software and more general system executions. Runtime verification techniques are lightweight techniques to assess correctness, reliability, and robustness; these techniques are significantly more powerful and versatile than conventional testing, and more practical than exhaustive formal verification. Chapter "Hardware-based Runtime Verification with Embedded Tracing Units and Stream Processing" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com. This book includes selected conference proceedings of Conference on Processing and Characterization

of Materials (CPCM-2020). The content of the book includes processing of and characterization of materials, sustainable energy materials, defense materials, functionally graded materials, and composites which has significant impact on cutting-edge applications. The book also includes surface engineering, computational methods and materials, waste utilization, and corrosion and environmental degradation of materials. Design, research, and development studies, experimental investigations, theoretical analysis, and fabrication techniques relevant to the application of materials in various assemblies, ranging from individual components to complete structure are presented in the book. The book is useful for graduate students, researchers, and industry professionals alike. This collection of proceedings from the International Conference on Systems Engineering, Las Vegas, 2014 is orientated toward systems engineering, including topics like aero-space, power systems, industrial automation and robotics, systems theory, control theory, artificial intelligence, signal processing, decision support, pattern recognition and machine learning, information and communication technologies, image processing, and computer vision as well as its applications. The volume's main focus is on models, algorithms, and software tools that facilitate efficient and convenient utilization of modern achievements in systems engineering. This proceedings volume presents a selection of the best papers from the 14th International Conference on Business Excellence, Business Revolution in the Digital Era (ICBE 2020), held in Bucharest, Romania. The respective papers share the latest findings and perspectives on innovation in a turbulent business environment, and on improvements in economic, societal and technological structures and processes to help reach major sustainability goals. This book highlights some of the latest advances in nanotechnology and nanomaterials from leading researchers in Ukraine, Europe and beyond. It features contributions presented at the 8th International Science and Practice Conference Nanotechnology and Nanomaterials (NANO2020), which was held on August 26–29, 2020 at Lviv Polytechnic National University, and was jointly organized by the Institute of Physics of the National Academy of Sciences of Ukraine, University of Tartu (Estonia), University of Turin (Italy), and Pierre and Marie Curie University (France). Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key findings on material properties, behavior, and synthesis. This book's companion volume also addresses topics such as nano-optics, energy storage, and biomedical applications. This book features research presented and discussed during the Research & Innovation Forum (Rii Forum) 2020. As such, this book offers a unique insight into emerging topics, issues and developments pertinent to

the fields of technology, innovation and education and their social impact. Papers included in this book apply inter- and multi-disciplinary approaches to query such issues as technology-enhanced teaching and learning, smart cities, information systems, cognitive computing and social networking. What brings these threads of the discussion together is the question of how advances in computer science – which are otherwise largely incomprehensible to researchers from other fields – can be effectively translated and capitalized on so as to make them beneficial for society as a whole. In this context, Rii Forum and Rii Forum proceedings offer an essential venue where diverse stakeholders, including academics, the think tank sector and decision-makers, can engage in a meaningful dialogue with a view to improving the applicability of advances in computer science. This volume gathers selected peer-reviewed papers presented at the XXVI International Joint Conference on Industrial Engineering and Operations Management (IJCIEOM), held on July 8-11, 2020 in Rio de Janeiro, Brazil. The respective chapters address a range of timely topics in industrial engineering, including operations and process management, global operations, managerial economics, data science and stochastic optimization, logistics and supply chain management, quality management, product development, strategy and organizational engineering, knowledge and information management, work and human factors, sustainability, production engineering education, healthcare operations management, disaster management, and more. These topics broadly involve fields like operations, manufacturing, industrial and production engineering, and management. Given its scope, the book offers a valuable resource for those engaged in optimization research, operations research, and practitioners alike. “Number Theory and Related Fields” collects contributions based on the proceedings of the “International Number Theory Conference in Memory of Alf van der Poorten,” hosted by CARMA and held March 12-16th 2012 at the University of Newcastle, Australia. The purpose of the conference was to promote number theory research in Australia while commemorating the legacy of Alf van der Poorten, who had written over 170 papers on the topic of number theory and collaborated with dozens of researchers. The research articles and surveys presented in this book were written by some of the most distinguished mathematicians in the field of number theory, and articles will include related topics that focus on the various research interests of Dr. van der Poorten. The book introduces concepts, principles, methods and procedures that will be valuable to students and scholars in thinking about existing organization systems, proposing new systems and working with management professionals in implementing new information systems. This book of Information Systems and Management Science (proceedings of ISMS 2020) is intended to be used as a reference by students and researchers who collect scientific and technical contributions with respect to models, tools, technologies and applications in the field of information systems and management science. This textbook shows how to exploit information systems in a technology-

rich management field. This book contains a selection of the latest research in the field of Computational Social Science (CSS) methods, uses, and results, as presented at the 2018 annual conference of the CSSSA. This conference was held in Santa Fe, New Mexico, October 25 – 28, 2018, at the Drury Plaza Hotel. CSS investigates social and behavioral dynamics in both nature and society, through computer simulation, network analysis, and the science of complex systems. The Computational Social Science Society of the Americas (CSSSA) is a professional society that aims to advance the field of CSS in all its areas, from fundamental principles to real-world applications, by holding conferences and workshops, promoting standards of scientific excellence in research and teaching, and publishing novel research findings. What follows is a diverse representation of new approaches and research findings, using the tools of CSS and Agent-Based Modeling (ABM) in exploring complex phenomena across many different domains. Readers will not only have the methods and results of these specific projects on which to build, but will also gain a greater appreciation for the broad scope of CSS, and have a wealth of case-study examples that can serve as meaningful exemplars for new research projects and activities. This book, we hope, will appeal to any researchers and students working in the social sciences, broadly defined, who aim to better understand and apply the concepts of Complex Adaptive Systems to their work. New Perspectives in Partial Least Squares and Related Methods shares original, peer-reviewed research from presentations during the 2012 partial least squares methods meeting (PLS 2012). This was the 7th meeting in the series of PLS conferences and the first to take place in the USA. PLS is an abbreviation for Partial Least Squares and is also sometimes expanded as projection to latent structures. This is an approach for modeling relations between data matrices of different types of variables measured on the same set of objects. The twenty-two papers in this volume, which include three invited contributions from our keynote speakers, provide a comprehensive overview of the current state of the most advanced research related to PLS and related methods. Prominent scientists from around the world took part in PLS 2012 and their contributions covered the multiple dimensions of the partial least squares-based methods. These exciting theoretical developments ranged from partial least squares regression and correlation, component based path modeling to regularized regression and subspace visualization. In following the tradition of the six previous PLS meetings, these contributions also included a large variety of PLS approaches such as PLS metamodels, variable selection, sparse PLS regression, distance based PLS, significance vs. reliability, and non-linear PLS. Finally, these contributions applied PLS methods to data originating from the traditional econometric/economic data to genomics data, brain images, information systems, epidemiology, and chemical spectroscopy. Such a broad and comprehensive volume will also encourage new uses of PLS models in work by researchers and students in many fields. This book constitutes the refereed conference

proceedings of the 9th Annual Privacy Forum, APF 2021. Due to COVID-19 pandemic the conference was held virtually. The 9 revised full papers were carefully reviewed and selected from 43 submissions. The papers are organized in topical sections on Implementing Personal Data Processing Principles; Privacy Enhancing Technologies; Promoting Compliance with the GDPR. This volume offers the state-of-the-art research and developments in service science and related research, education and practice areas. It showcases emerging technology and applications in fields including healthcare, information technology, transportation, sports, logistics, and public services. Regardless of size and service, a service organization is a service system. Because of the socio-technical nature of a service system, a systems approach must be adopted to design, develop, and deliver services, aimed at meeting end users' both utilitarian and socio-psychological needs. Effective understanding of service and service systems often requires combining multiple methods to consider how interactions of people, technology, organizations, and information create value under various conditions. The papers in this volume highlight ways to approach such technical challenges in service science and are based on submissions from the 2018 INFORMS International Conference on Service Science. This book presents peer-reviewed articles and recent advances on the potential applications of Science and Mathematics for future technologies, from the 7th International Conference on the Applications of Science and Mathematics (SCIEMATHIC 2021), held in Malaysia. It provides an insight about the leading trends in sustainable Science and Technology. The world is looking for sustainable solutions to problems more than ever. The synergistic approach of mathematicians, scientists and engineers has undeniable importance for future technologies. With this viewpoint, SCIEMATHIC 2021 has the theme “Quest for Sustainable Science and Mathematics for Future Technologies”. The conference brings together physicists, mathematicians, statisticians and data scientists, providing a platform to find sustainable solutions to major problems around us. The works presented here are suitable for professionals and researchers globally in making the world a better and sustainable place. This book includes the proceedings of the Sustaining Tomorrow 2020 symposium and summit which bring together research from experts in academia, industry, and policy arenas to uncover the challenges and to forge solutions to sustain tomorrow. To sustain tomorrow, we need to continuously make headway in Agriculture, Engineering, Energy, Environment, Economics, Water, among other necessities. This book disseminates the most recent advances in these fields and promotes collaborations to maximize opportunities for innovative solutions. Though primarily intended to offer an update for experts and researchers in the field, this book is equally useful as a valuable educational tool for relevant undergraduate and graduate courses. Key aspects covered include the better and more responsible engineering and management of energy conversion and conservation processes, the furthering of renewable energy technologies, improvements in water-

agriculture nexus and energy-environment-economics relationship, and endorsing education, implementation, and evaluation of all-embracing sustainability. These proceedings collect the selected contributions of participants of the First Karl Schwarzschild Meeting on Gravitational Physics, held in Frankfurt, Germany to celebrate the 140th anniversary of Schwarzschild's birth. They are grouped into 4 main themes: I. The Life and Work of Karl Schwarzschild; II. Black Holes in Classical General Relativity, Numerical Relativity, Astrophysics, Cosmology, and Alternative Theories of Gravity; III. Black Holes in Quantum Gravity and String Theory; IV. Other Topics in Contemporary Gravitation. Inspired by the foundational principle "By acknowledging the past, we open a route to the future", the week-long meeting, envisioned as a forum for exchange between scientists from all locations and levels of education, drew participants from 15 countries across 4 continents. In addition to plenary talks from leading researchers, a special focus on young talent was provided, a feature underlined by the Springer Prize for the best student and junior presentations. This book aims to bring together researchers and practitioners from diverse disciplines—from sociology, biology, physics, and computer science—who share a passion to better understand the interdependencies within and across systems. This volume contains contributions presented at the 11th International Conference on Complex Networks (CompleNet) in Exeter, United Kingdom, 31 March - 3 April 2020. CompleNet is a venue for discussing ideas and findings about all types of networks, from biological, to technological, to informational and social. It is this interdisciplinary nature of complex networks that CompleNet aims to explore and celebrate. This book gathers peer-reviewed contributions presented at the 1st International Conference on Structural Engineering and Construction Management (SECON'20), held in Angamaly, Kerala, India, on 14-15 May 2020. The meeting served as a fertile platform for discussion, sharing sound knowledge and introducing novel ideas on issues related to sustainable construction and design for the future. The respective contributions address various aspects of numerical modeling and simulation in structural engineering, structural dynamics and earthquake engineering, advanced analysis and design of foundations, BIM, building energy management, and technical project management. Accordingly, the book offers a valuable, up-to-date tool and essential overview of the subject for scientists and practitioners alike, and will inspire further investigations and research. This book contains the papers that were presented at the 17th International Symposium of Robotics Research (ISRR). The ISRR promotes the development and dissemination of groundbreaking research and technological innovation in robotics useful to society by providing a lively, intimate, forward-looking forum for discussion and debate about the current status and future trends of robotics with great emphasis on its potential role to benefit humankind. The symposium contributions contained in this book report on a variety of new robotics research results covering a broad spectrum organized into the

categories: design, control; grasping and manipulation, planning, robot vision, and robot learning. This book presents the select proceedings of the International Conference on Advanced Functional Materials and Devices (AFMD 2021). It highlights the advancements in area of functional materials which includes electronic, magnetic, optical, adaptive and dielectric materials that are required to develop new functionalities with better performance in this new era of technology. The topics covered include materials for energy harvesting, biomedical applications, environmental monitoring, photonics and optoelectronic devices, strategic applications and high energy physics. This book will be a useful reference for beginners, researchers, academicians and professionals working in the area of material science and its allied fields. This book explores - at the macro, meso and micro levels and in terms of qualitative as well as quantitative studies - theories, policies and practices about the contributions of artistic research and innovations towards defining new forms of knowledge, knowledge production, as well as knowledge diffusion, absorption and use. Artistic research, artistic innovations and arts-based innovations have been major transformers, as well as disruptors, of the ways in which societies, economies, and political systems perform. Ramifications here refer to the epistemic socio-economic, socio-political and socio-technical base and aesthetic considerations on the one hand, as well as to strategies, policies, and practices on the other, including sustainable enterprise excellence, considerations in the context of knowledge economies, societies and democracies. Creativity in general, and the arts in particular, are increasingly recognized as drivers of cultural, economic, political, social, and scientific innovation and development. This book examines how one could derive and develop insights in these areas from the four vantage points of Arts, Research, Innovation and Society. Among the principal questions that are examined include: - Could and should artists be researchers? - How are the systems of the Arts and Sciences connected and/or disconnected? - What is the impact of the arts in societal development? - How are the Arts interrelated with the mechanisms of generating social, scientific and economic innovation? As the inaugural book in the Arts, Research, Innovation and Society series, this book uses a thematically wide spectrum that serves as a general frame of reference for the entire series of books to come. This book constitutes the refereed proceedings of the 8th International Conference on the Theory and Application of Diagrams, Diagrams 2014, held in Melbourne, VIC, Australia in July/August 2014. The 15 revised full papers and 9 short papers presented together with 6 posters were carefully reviewed and selected from 40 submissions. The papers have been organized in the following topical sections: diagram layout, diagram notations, diagramming tools, diagrams in education, empirical studies and logic and diagrams. This book contains contributions presented at the 12th International Conference on Complex Networks (CompleNet), 24-26 May 2021. CompleNet is an international conference on complex networks that brings together researchers and

practitioners from diverse disciplines—from sociology, biology, physics, and computer science—who share a passion to better understand the interdependencies within and across systems. CompleNet is a venue to discuss ideas and findings about all types networks, from biological, to technological, to informational and social. It is this interdisciplinary nature of complex networks that CompleNet aims to explore and celebrate. The International Conference on Health Care Systems Engineering (HCSE) provided a timely opportunity to discuss statistical analysis and operations management issues in health care delivery systems. The conference took place in Milan between May 22nd and 24th, 2013. Scientists and practitioners discussed new ideas, methods and technologies for improving the operation of health care organizations. The event and this resulting volume emphasize research in the field of health care systems engineering developed in close collaboration with clinicians. Topics applicable to researchers and practitioners include: hospital drug logistics, operating theatres, modelling and simulation in patient care and healthcare organizations, home care services. This book contains high-quality papers presented at the First International Forum on Financial Mathematics and Financial Technology. With the rapid development of FinTech, the in-depth integration between mathematics, finance and advanced technology is the general trend. This book focuses on selected aspects of the current and upcoming trends in FinTech. In detail, the included scientific papers focus on financial mathematics and FinTech, presenting the innovative mathematical models and state-of-the-art technologies such as deep learning, with the aim to improve our financial analysis and decision-making and enhance the quality of financial services and risk control. The variety of the papers delivers added value for both scholars and practitioners where they will find perfect integration of elegant mathematical models and up-to-date data mining technologies in financial market analysis. This current book comprises state-of-the-art research results in the field of mechatronics and reliable systems engineering, gathering papers from almost all continents. Since the chapters represent contributions of research scholars who work in both governmental financed institutions and in the business environment, one could infer that they certainly reflect a clear picture of the developments in these cutting-edge sciences. Moreover, the contributions are not limited to mechatronics, as nowadays it has grown to embed all smart technical sciences. Medical applications based on nano-technologies - seemingly the most promising of all newly developed branches - could not be left out of this work. It is our belief that the book is useful to both students, who want to learn from the best scholars (as most of the authors hold a Ph.D. degree and are well-known professors), and to researchers in all areas of smart engineering, who will definitely find here hot topics meant to inspire them in their line of work. This book features papers addressing a broad range of topics including psychology, religious studies, natural heritage, accounting, business, communication, education and sustainable development. It serves as a platform for disseminating research findings by

academicians of local, regional and global prominence, and acts as a catalyst to inspire positive innovations in the development of the region. It is also a significant point of reference for academicians and students. This collection of selected social sciences papers is based on the theme "Soaring Towards Research Excellence", presented at the Regional Conference of Sciences, Technology and Social Sciences (RCSTSS 2016), organised bi-annually by Universiti Teknologi MARA Cawangan Pahang, Malaysia. This book highlights some of the latest advances in nanotechnology and nanomaterials from leading researchers in Ukraine, Europe and beyond. It features contributions presented at the 8th International Science and Practice Conference Nanotechnology and Nanomaterials (NANO2020), which was held on August 26-29, 2020 at Lviv Polytechnic National University, and was jointly organized by the Institute of Physics of the National Academy of Sciences of Ukraine, University of Tartu (Estonia), University of Turin (Italy), and Pierre and Marie Curie University (France). Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key findings on material properties, behavior, and synthesis. This book's companion volume also addresses topics such as nano-optics, energy storage, and biomedical applications. This proceedings volume presents selected and peer reviewed 50 reports of the 2015 International Conference on "Physics and Mechanics of New Materials and Their Applications" (Azov, Russia, 19-22 May, 2015), devoted to 100th Anniversary of the Southern Federal University, Russia. The book presents processing techniques, physics, mechanics, and applications of advanced materials. The book is concentrated on some nanostructures, ferroelectric crystals, materials and composites and other materials with specific properties. In this book are presented nanotechnology approaches, modern piezoelectric techniques, physical and mechanical studies of the structure-sensitive properties of the materials. A wide spectrum of mathematical and numerical methods is applied to the solution of different technological, mechanical and physical problems for applications. Great attention is devoted to novel devices with high accuracy, longevity and extended possibilities to work in a large scale of temperatures and pressure ranges, aggressive media, etc. The characteristics of materials and composites with improved properties is shown, and new possibilities in studying of various physico-mechanical processes and phenomena are demonstrated. ISRR, the "International Symposium on Robotics Research", is one of robotics pioneering Symposia, which has established over the past two decades some of the field's most fundamental and lasting contributions. This book presents the results of the eighteenth edition of "Robotics Research" ISRR17, offering a collection of a broad range of topics in robotics. This symposium took place in Puerto Varas, Chile from December 11th to December 14th, 2017. The content of the contributions provides a wide coverage of the current state of robotics research, the advances and challenges in its theoretical foundation and technology basis, and the developments in its traditional and new emerging areas of

applications. The diversity, novelty, and span of the work unfolding in these areas reveal the field's increased maturity and expanded scope and define the state of the art of robotics and its future direction. This book presents selected papers from the 7th International Conference on Advances in Energy Research (ICAER 2019), providing a comprehensive coverage encompassing all fields and aspects of energy in terms of generation, storage, and distribution. Themes such as optimization of energy systems, energy efficiency, economics, management, and policy, and the interlinkages between energy and environment are included. The contents of this book will be of use to researchers and policy makers alike. This book comprises select peer-reviewed proceedings of the International Conference on Advances in Materials Research (ICAMR 2019). The contents cover latest research in materials and their applications relevant to composites, metals, alloys, polymers, energy and phase change. The indigenous properties of materials including mechanical, electrical, thermal, optical, chemical and biological functions are discussed. The book also elaborates the properties and performance enhancement and/or deterioration in order of the modifications in atomic particles and structure. This book will be useful for both students and professionals interested in the development and applications of advanced materials. This book gathers the latest advances, innovations, and applications in the field of environmental and construction engineering, as presented by international researchers at the XXIV International Scientific Conference "Construction: The Formation of Living Environment", held in Moscow, Russia on April 22-24, 2021. It covers highly diverse topics, including sustainable innovative development of the construction industry, building materials, reliability of buildings and constructions and safety in construction, modelling and mechanics of building structures, engineering and smart systems in construction, climate change and urban environment. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations. This proceedings book includes the results from the International Conference on Deep Learning, Artificial Intelligence and Robotics, held in Malaviya National Institute of Technology, Jawahar Lal Nehru Marg, Malaviya Nagar, Jaipur, Rajasthan, 302017. The scope of this conference includes all subareas of AI, with broad coverage of traditional topics like robotics, statistical learning and deep learning techniques. However, the organizing committee expressly encouraged work on the applications of DL and AI in the important fields of computer/electronics/electrical/mechanical/chemical/textile engineering, health care and agriculture, business and social media and other relevant domains. The conference welcomed papers on the following (but not limited to) research topics: · Deep Learning: Applications of deep learning in various engineering streams, neural information processing systems, training schemes, GPU computation and paradigms, human-computer interaction, genetic algorithm, reinforcement

learning, natural language processing, social computing, user customization, embedded computation, automotive design and bioinformatics · Artificial Intelligence: Automatic control, natural language processing, data mining and machine learning tools, fuzzy logic, heuristic optimization techniques (membrane-based separation, wastewater treatment, process control, etc.) and soft computing · Robotics: Automation and advanced control-based applications in engineering, neural networks on low powered devices, human-robot interaction and communication, cognitive, developmental and evolutionary robotics, fault diagnosis, virtual reality, space and underwater robotics, simulation and modelling, bio-inspired robotics, cable robots, cognitive robotics, collaborative robotics, collective and social robots and humanoid robots It was a collaborative platform for academic experts, researchers and corporate professionals for interacting their research in various domain of engineering like robotics, data acquisition, human-computer interaction, genetic algorithm, sentiment analysis as well as usage of AI and advanced computation in various industrial challenges based applications such as user customization, augmented reality, voice assistants, reactor design, product formulation/synthesis, embedded system design, membrane-based separation for protecting environment along with wastewater treatment, rheological properties estimation for Newtonian and non-Newtonian fluids used in micro-processing industries and fault detection. This book constitutes the refereed proceedings of the 13th PLAIS EuroSymposium 2021 which was held in Sopot, Poland, on September 23, 2021. The objective of the PLAIS EuroSymposium 2021 is to promote and develop high quality research on all issues related to digital transformation. It provides a forum for IS researchers and practitioners in Europe and beyond to interact, collaborate, and develop this field. The 10 papers presented in this volume were carefully reviewed and selected from 34 submissions. They were organized in topical sections named: digital enterprises; smart cities; digital education; and innovative methods in data and process analysis. This book addresses the problems of Geocosmos and provides a snapshot of the current research in a broad area of Earth Sciences carried out in Russia and elsewhere. The themes covered include solar physics, physics of magnetosphere, ionosphere and atmosphere, solar-terrestrial coupling links, seismology, geoelectricity, paleomagnetism and rock magnetism, as well as cross-disciplinary studies. The proceedings are carefully edited, providing a panoramic outlook of a broad area of Earth Sciences. The readership includes colleague researchers, students and early career scientists. The proceedings will help the readers to look at their research fields from various points of view. Problems of Geocosmos conferences are held by Earth Physics Department, St. Petersburg University bi-annually since 1994. It is the largest forum of this kind in Russia/former Soviet Union attracting up to 200 researchers in Earth and magnetospheric physics. This book features research presented and discussed during the Research & Innovation Forum (Rii Forum)

2019. As such, this volume offers a unique insight into emerging topics, issues and developments pertinent to the fields of technology, innovation and education and their social impact. Papers included in this volume apply inter- and multi-disciplinary approaches to query such issues as technology-enhanced teaching and learning, smart cities,, information systems, cognitive computing and social networking. What brings these threads of the discussion together is the question of how advances in computer science - which are otherwise largely incomprehensible to researchers from other fields - can be effectively translated and capitalized on so as to make them beneficial for society as a whole. In this context, Rii Forum and Rii Forum proceedings offer an essential venue where diverse stakeholders, including academics, the think tank sector and decision-makers, can engage in a meaningful dialogue with a view to improving the applicability of advances in computer science. In brief, Rii Forum takes the imperative inherent in the 4th industrial revolution seriously, in that it identifies ways of making technology usable and therefore inclusive.

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