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Quantum Nonlocality and Reality
Emerging Technologies in Data Mining and Information Security
The Marriage Motive: A Price Theory of Marriage
Link Prediction in Social Networks
Computational Intelligence, Communications, and Business Analytics
Control Engineering and Information Systems
Advances in Materials and Pavement Performance Prediction II
Large-Scale Disk Failure Prediction
Musculoskeletal Pain - Assessment, Prediction and Treatment
Macro-Level Learning through Massive Open Online Courses (MOOCs): Strategies and Predictions for the Future
Digital Forensics and Watermarking
The Foundation of Precision Medicine: Integration of Electronic Health Records with Genomics Through Basic, Clinical, and Translational Research
River Flow 2014
Advances on Broad-Band Wireless Computing, Communication and Applications
Mechanics of Flow-Induced Sound and Vibration, Volume 2
Interdisciplinary Behavior and Social Sciences
Transactions on Engineering Technologies
Data-Driven Innovation Big Data for Growth and Well-Being
Fundamentals and Applications of AI: An Interdisciplinary Perspective
Challenges in Mechanics of Time Dependent Materials, Fracture, Fatigue, Failure and Damage Evolution, Volume 2
Artificial Intelligence and Soft Computing
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Ships and Offshore Structures XIX
Corrosion Problems and Solutions in Oil Refining and Petrochemical Industry
Advances in Information Retrieval
HL 111 - Make Or Break: The UK's Digital Future
Attention, predictions and expectations, and their violation: attentional control in the human brain
Digital Innovation in Financial Services
Disaster Risk Communication
Natural Language Processing and Chinese Computing
The New Humanitarians in International Practice
The Return of the Cold War
The Political Economy of Emerging Markets
Earthquakes, Tsunamis and Nuclear Risks
The Oxford Handbook of IPOs
Smart Cities, Green Technologies, and Intelligent Transport Systems
Writing Feature Stories
The Lawyer Bubble
Identification and Characterization of
Antimicrobial Peptides with Therapeutic Potential

This two-volume set (CCIS 873 and CCIS 874) constitutes the thoroughly refereed proceedings of the 9th International Symposium, ISICA 2017, held in Guangzhou, China, in November 2017. The 101 full papers presented in both volumes were carefully reviewed and selected from 181 submissions. This first volume is organized in topical sections on neural networks and statistical learning: neural architecture search, transfer of knowledge; evolutionary multi-objective and dynamic optimization: optimal control and design, hybrid methods; data mining: association rule learning, data management platforms; Cloud computing and multiagent systems: service models, Cloud engineering; everywhere connectivity: IoT solutions, wireless sensor networks.

This three-volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais, Portugal on 7th to 10th September 2015. The International Ship and Offshore Structures Congress (ISSC) is a forum for the exchange of information by experts undertaking and applying marine structural research. The aim of

While this book contains numerous facts and empirical findings and touches on policy issues, its main contribution to the existing literature lies in the theoretical perspective it offers. The core of this book is a general equilibrium theory of labor and marriage presented in Chapter 2, which provides the conceptual framework for the rest of the chapters. Two major implications of the theory are sex ratio effects and compensating differentials in marriage. The book demonstrates how a few core concepts, linked via economic analysis, help explain a multitude of findings based on statistical analyses of data from a wide variety of cultures. It is hoped that readers of this book will improve their understanding of how marriage works to help us design better economic and social policies as well as help people live better and happier lives, making the book of interest to not only economists but sociologists and anthropologists as well.
Inspired from the legacy of the previous four 3DFEM conferences held in Delft and Athens as well as the successful 2018 AM3P conference held in Doha, the 2020 AM3P conference continues the pavement mechanics theme including pavement models, experimental methods to estimate model parameters, and their implementation in predicting pavement performance. The AM3P conference is organized by the Standing International Advisory Committee (SIAC), at the time of this publication chaired by Professors Tom Scarpas, Eyad Masad, and Amit Bhasin. Advances in Materials and Pavement Performance Prediction II includes over 111 papers presented at the 2020 AM3P Conference. The technical topics covered include: - rigid pavements - pavement geotechnics - statistical and data tools in pavement engineering - pavement structures - asphalt mixtures - asphalt binders The book will be invaluable to academics and engineers involved or interested in pavement engineering, pavement models, experimental methods to estimate model parameters, and their implementation in predicting pavement performance.

This volume contains fifty-one revised and extended research articles written by prominent researchers participating in the international conference on Advances in Engineering Technologies and Physical Science (London, UK, 2-4 July, 2014), under the World Congress on Engineering 2014 (WCE 2014). Topics covered include mechanical engineering, bioengineering, internet engineering, wireless networks, image engineering, manufacturing engineering and industrial applications. The book offers an overview of the tremendous advances made recently in engineering technologies and the physical sciences and their applications and also serves as an excellent reference for researchers and graduate students working in these fields.

Rapid and sustained growth in the twenty-first-century global economy of large developing economies including Brazil, Russia, India, China, and South Africa, has captivated policy-makers and popular business press pundits alike. The coining of the new acronym BRICS and widespread adoption in international economics discourse of the designation "emerging markets" is symptomatic of that interest. The Political Economy of Emerging Markets situates the BRICS phenomena
in the global economic context of advanced economies continuing to languish in recession and hovering over a deflationary abyss several years after the meltdown. A key question this volume seeks to answer is whether the BRICS and so-called "emerging market" phenomenon is really the new miracle it is presented as, offering new or modified varieties of reloaded capitalist development to the world, or yet another mirage. Written by ten leading global experts, this book answers the tough questions over BRICS and emerging markets potentially realizing new varieties of reloaded capitalism. It is not only international and interdisciplinary but uniquely multiperspectival. Theories framing chapters are not of one genre, but generate theoretical debate at the frontier of knowledge in political economy along with nuanced empirical analysis which flows from it. This book is of great importance to those who study political economy, development economics and international political economy.

This book constitutes the thoroughly refereed proceedings of the 4th International Conference on Smart Cities and Green ICT Systems, SMARTGREENS 2015, and the 1st International Conference on Vehicle Technology and Intelligent Transport Systems, VEHITS 2015, held in Lisbon, Portugal, in May 2015. The 15 full papers of SMARTGREENS 2015 presented were carefully reviewed and selected from 73 submissions. VEHITS 2015 received 27 paper submissions from which 3 papers were selected and published in this book. The papers reflect topics such as smart cities, energy-aware systems and technologies, sustainable computing and communications, sustainable transportation and smart mobility.

This report improves the evidence base on the role of Data Driven Innovation for promoting growth and well-being, and provide policy guidance on how to maximise the benefits of DDI and mitigate the associated economic and societal risks.

Consumer behaviour is rapidly trending towards the use of digital devices as instruments through which to transact day-to-day business. This original and timely book shows how this trend creates new opportunities not only for retail consumers but also for financial service
providers, regulators and central banks. The author offers a comprehensive overview of these opportunities and their countervailing legal and regulatory challenges. The author describes and analyses in unprecedented detail the application of digital financial innovation (FinTech), and some of its core manifestations, including virtual currencies, Blockchain and distributed ledger technologies to the delivery of financial services, in areas such as: – payments; – securities clearing and settlement; – central banking; – real-time access to financial information; – instant completion of core financial transactions; – data validation and reconciliation processes; and – digital contracting (smart contracts). Also clarified are the legal and other barriers to be overcome – including cybersecurity and risks to privacy – before any widespread adoption of digital innovation in the highly regulated financial sector context can occur. As an informed assessment of the legal merits and risks of technological innovation for financial service providers and central banks, and as a contribution to establishing a conceptual framework within which to analyse and better understand the applications of digital innovation to the financial sector, this practical work is bound to be welcomed by legal practitioners and legal scholars alike with an interest in financial services. Policymakers and regulators will also appreciate its guidance on how to temper the less benevolent aspects of FinTech with targeted, risk-focused regulation, so as to promote innovation and preserve the potential benefits for financial markets and their participants alike.

This work presents link prediction similarity measures for social networks that exploit the degree distribution of the networks. In the context of link prediction in dense networks, the text proposes similarity measures based on Markov inequality degree thresholding (MIDTs), which only consider nodes whose degree is above a threshold for a possible link. Also presented are similarity measures based on cliques (CNC, AAC, RAC), which assign extra weight between nodes sharing a greater number of cliques. Additionally, a locally adaptive (LA) similarity measure is proposed that assigns different weights to common nodes based on the degree distribution of the local neighborhood and the degree distribution of the network. In the context of link prediction in dense networks, the text introduces a novel two-phase framework that
adds edges to the sparse graph to form a boost graph.

This two-volume set LNCS 12656 and 12657 constitutes the refereed proceedings of the 43rd European Conference on IR Research, ECIR 2021, held virtually in March/April 2021, due to the COVID-19 pandemic. The 50 full papers presented together with 11 reproducibility papers, 39 short papers, 15 demonstration papers, 12 CLEF lab descriptions papers, 5 doctoral consortium papers, 5 workshop abstracts, and 8 tutorials abstracts were carefully reviewed and selected from 436 submissions. The accepted contributions cover the state of the art in IR: deep learning-based information retrieval techniques, use of entities and knowledge graphs, recommender systems, retrieval methods, information extraction, question answering, topic and prediction models, multimedia retrieval, and much more.

A collaboration between distinguished physicists and philosophers of physics, this important anthology surveys the deep implications of Bell's nonlocality theorem.

This book addresses corrosion problems and their solutions at facilities in the oil refining and petrochemical industry, including cooling water and boiler feed water units. Further, it describes and analyzes corrosion control actions, corrosion monitoring, and corrosion management. Corrosion problems are a perennial issue in the oil refining and petrochemical industry, as they lead to a deterioration of the functional properties of metallic equipment and harm the environment – both of which need to be protected for the sake of current and future generations. Accordingly, this book examines and analyzes typical and atypical corrosion failure cases and their prevention at refineries and petrochemical facilities, including problems with: pipelines, tanks, furnaces, distillation columns, absorbers, heat exchangers, and pumps. In addition, it describes naphthenic acid corrosion, stress corrosion cracking, hydrogen damages, sulfidic corrosion, microbiologically induced corrosion, erosion-corrosion, and corrosion fatigue occurring at refinery units. At last, fouling, corrosion and cleaning are discussed in this book.
The human aspect plays an important role in the social sciences. The behavior of people has become a vital area of focus in the social sciences as well. Interdisciplinary Behavior and Social Sciences contains papers that were originally presented at the 3rd International Congress on Interdisciplinary Behavior and Social Science 2014 (ICIBSoS 2014),

The two-volume set LNAI 9692 and LNAI 9693 constitutes the refereed proceedings of the 15th International Conference on Artificial Intelligence and Soft Computing, ICAISC 2016, held in Zakopane, Poland in June 2016. The 134 revised full papers presented were carefully reviewed and selected from 343 submissions. The papers included in the first volume are organized in the following topical sections: neural networks and their applications; fuzzy systems and their applications; evolutionary algorithms and their applications; agent systems, robotics and control; and pattern classification. The second volume is divided in the following parts: bioinformatics, biometrics and medical applications; data mining; artificial intelligence in modeling and simulation; visual information coding meets machine learning; and various problems of artificial intelligence.

A noble profession is facing its defining moment. From law schools to the prestigious firms that represent the pinnacle of a legal career, a crisis is unfolding. News headlines tell part of the story—the growing oversupply of new lawyers, widespread career dissatisfaction, and spectacular implosions of pre-eminent law firms. Yet eager hordes of bright young people continue to step over each other as they seek jobs with high rates of depression, life-consuming hours, and little assurance of financial stability. The Great Recession has only worsened these trends, but correction is possible and, now, imperative. In The Lawyer Bubble, Steven J. Harper reveals how a culture of short-term thinking has blinded some of the nation’s finest minds to the long-run implications of their actions. Law school deans have ceded independent judgment to flawed U.S. News & World Report rankings criteria in the quest to maximize immediate results. Senior partners in the nation’s large law firms have focused on current profits to enhance American Lawyer rankings and individual wealth at great cost to their institutions. Yet, wiser decisions—being honest about the legal job market, revisiting the
financial incentives currently driving bad behavior, eliminating the billable hour model, and more—can take the profession to a better place. A devastating indictment of the greed, shortsightedness, and dishonesty that now permeate the legal profession, this insider account is essential reading for anyone who wants to know how things went so wrong and how the profession can right itself once again.

Musculoskeletal Pain - Assessment, Prediction and Treatment presents a common sense approach to interpreting and applying existing clinical knowledge and new research to help clinicians make sense of the complex phenomena of acute and chronic post-traumatic musculoskeletal pain. Built upon the Assess, Predict, Treat framework, the authors offer a method to help clinicians better understand their patients' pain. They present evidence-based decision tools to predict the natural and clinical course of common conditions, such as neck and low back pain, and they then synthesize that information into a logical, integrated treatment approach, which respects the individuality of the patient, the experiences of the clinician, and the value of evidence-informed practice. David Walton and James Elliott are leaders in the field of post-traumatic pain and recovery. Their work provides a valuable framework to facilitate novice clinicians in their transition towards experts and helps mid- and late-stage clinicians better interpret, synthesize, and discuss complex information on pain with the goal of optimised outcomes for patients.

Mechanics of Flow-Induced Sound and Vibration, Volume 2: Complex Flow-Structure Interactions, Second Edition, enables readers to fully understand flow-induced vibration and sound, unifying the disciplines of fluid dynamics, structural dynamics, vibration, acoustics, and statistics in order to classify and examine each of the leading sources of vibration and sound induced by various types of fluid motion. Starting from classical theories of aeroacoustics and hydroacoustics, a formalism of integral solutions valid for sources near boundaries is developed and then broadened to address different source types, including hydrodynamically induced cavitation and bubble noise, turbulent wall-pressure fluctuations, pipe and duct systems, lifting surface flow noise and vibration, and noise from rotating machinery. Each chapter is
illustrated with comparisons of leading formulas and measured data. Combined with its companion book, Mechanics of Flow-Induced Sound and Vibration, Volume 1: General Concepts and Elementary Sources, the book covers everything an engineer needs to understand flow-induced sound and vibration. This book will be a vital source of information for postgraduate students, engineers and researchers with an interest in aerospace, ships and submarines, offshore structures, construction, and ventilation. Presents every important topic in flow-induced sound and vibration Covers all aspects of the topics addressed, from fundamental theory, to the analytical formulas used in practice Provides the building blocks of computer modeling for flow-induced sound and vibration

Good writing engages as it informs and feature journalism offers writers the opportunity to tell deep, affecting stories that look beyond the immediate mechanics of who, what, where and when and explore the more difficult-and more rewarding-questions: how and why? Whether you're a blogger, a news journalist or an aspiring lifestyle reporter, a strong voice and a fresh, informed perspective remain in short supply and strong demand; this book will help you craft the kind of narratives people can't wait to share on their social media feeds. Writing Feature Stories established a reputation as a comprehensive, thought-provoking and engaging introduction to researching and writing feature stories. This second edition is completely overhauled to reflect the range of print and digital feature formats, and the variety of online, mobile and traditional media in which they appear. This hands-on guide explains how to generate fresh ideas; research online and offline; make the most of interviews; sift and sort raw material; structure and write the story; edit and proofread your work; find the best platform for your story; and pitch your work to editors. 'A wide-ranging, much-needed master class for anyone who tells true yarns in this fast-changing journalistic marketplace' - Bruce Shapiro, Columbia University 'Useful and thought provoking' - Margaret Simons, journalist and author 'A must read for any digital storyteller who wants to write emotive, engaging, believable content.' - Nidhi Dutt, foreign correspondent

This book constitutes the revised post-conference proceedings of the 15th International Workshop on Digital Forensics and Watermarking, IWDW
2016, held in Beijing, China, in September 2016. The 45 papers presented in this volume were carefully reviewed and selected from 70 submissions. The contributions are organized in topical sections on digital forensics, visual cryptography, reversible data hiding, and steganography and steganalysis.

This book constitutes the thoroughly refereed post-competition proceedings of the AI Ops Competition on Large-Scale Disk Failure Prediction, conducted between February 7th and May 15, 2020 on the Alibaba Cloud Tianchi Platform. A dedicated workshop, featuring the best performing teams of the competition, was held at the 24th Pacific-Asia Conference on Knowledge Discovery and Data Mining, PAKDD 2020, in Singapore, in April 2019. Due to the COVID-19 pandemic, the workshop was hosted online. This book includes 13 selected contributions: an introduction to dataset, selected approaches of the competing teams and the competition summary, describing the competition task, practical challenges, evaluation metrics, etc.

This proceedings book presents the latest research findings, innovative research results, methods and development techniques related to the emerging areas of broadband and wireless computing, from both theoretical and practical perspectives. Today’s information networks are going through a rapid evolution. Different kinds of networks with different characteristics are emerging, and are being integrated into heterogeneous networks. As a result, there are numerous interconnection problems that can occur at different levels of the hardware and software design of communicating entities and communication networks. Such networks need to manage an increasing usage demand, provide support for a significant number of services, guarantee their QoS, and optimize the network resources. The success of all-IP networking and wireless technology has changed the way of living for people around the globe. Advances in electronic integration and wireless communications will pave the way to offering access to wireless networks on the fly, which in turn will allow electronic devices to share information with each other wherever and whenever necessary.
Proceedings of the 2019 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, the second volume of six from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Experimental Mechanics, including papers in the following general technical research areas: Characterization Across Length Scales Extreme Conditions & Environmental Effects Soft Materials and Biomaterials Damage, Fatigue and Fracture Structure, Function and Performance Rate Effects in Elastomers Viscoelasticity & Viscoplasticity Research in Progress In-situ Techniques and Microscale Effects on Mechanical Behavior Fracture and Fatigue in Brittle Materials Novel Experimental Methods Fatigue and Fracture in Extreme Environments Integration of Models and Experiments Failure in Elastomers and Gels Rate Effects in Elastomers Microscale and Microstructural Effects on Mechanical Behavior Mechanics of Energy Materials Additive Manufacturing: Fatigue and Fracture Mechanics of Composite Materials Interfacial and Mixed-Mode Fracture Vibration Effects and High Cycle Fatigue

Initial public offerings (IPOs), or new listings of companies on stock exchanges, are among the most important form of finance and generate considerable attention and excitement. They are used to raise capital or to monetize investments by the early generation of venture capital and other private investors. They are increasingly international in scope and reach, especially with non-American firms offering on American stock exchanges. This handbook provides a comprehensive overview of why companies list on stock exchanges, how IPOs are regulated, initially valued, and their performance in the short and long run. The first part examines the economics of IPOs, and offers statistics and regulatory insights from the United States and other countries around the world. The volume then covers mergers versus IPOs, as well as reverse mergers and special purpose acquisition companies. Part III analyzes institutional ties in IPOs, including analysts, investment banks, auditors, and venture capitalists. The fourth section provides international perspectives on IPOs from a number of countries around the world. Part V discusses alternatives to IPOs, including private marketplaces, and crowdfunding. Reflecting the range of disciplines that analyze IPOs, the contributors
come from the fields of finance, international business and management, economics, and law. The chapters cover the latest information on a range of fundamental questions that are of interest to academics, practitioners, and policymakers alike.

The behaviour of river systems is a result of the complex interaction between flow, sediments, morphology and habitats. Furthermore, rivers are often used as a source of water supply and energy production as well as a waterway for transportation. The main challenge faced by river engineers today, in collaboration with environmental and ecological s

To some in academia, Massive Open Online Courses are a paradigm shift in online education, while others perceive them as a threat to traditional styles of pedagogy. In this regard, the time-honored model of the university lecture is seen as being a potential casualty of the rise of MOOCs. Macro-Level Learning through Massive Open Online Courses (MOOCs): Strategies and Predictions for the Future provides insight into the emerging phenomenon of MOOCs as a design manual for the course designer with a collection of chapters that deal with all facets of the MOOC debate. Industry training developers, corporate trainers, educators, post graduate students, and others will benefit from the information provided in this book.

This book is a printed edition of the Special Issue "Identification and Characterization of Antimicrobial Peptides with Therapeutic Potential" that was published in Pharmaceuticals

As humanitarian needs continue to grow rapidly, humanitarian action has become more contested, with new actors entering the field to address unmet needs, but also challenging long-held principles and precepts. This volume provides detailed empirical comparisons between emerging and traditional humanitarian actors. It sheds light on why and how the emerging actors engage in humanitarian crises and how their activities are carried out and perceived in their transnational organizational environment. It develops and applies a conceptual framework that fosters research on humanitarian actors and the humanitarian principles. In
particular, it simultaneously refers to theories of organizational sociology and international relations to identify both the structural and the situational factors that influence the motivations, aims and activities of these actors, and their different levels of commitment to the traditional humanitarian principles. It thus elucidates the role of the humanitarian principles in promoting coherence and coordination in the crowded and diverse world of humanitarian action, and discusses whether alternative principles and parallel humanitarian systems are in the making. This volume will be of great interest to postgraduate students and scholars in humanitarian studies, globalization and transnationalism research, organizational sociology, international relations, development studies, and migration and diaspora studies, as well as policy makers and practitioners engaged in humanitarian action, development cooperation and migration issues.

This two-volume set of LNAI 12340 and LNAI 12341 constitutes the refereed proceedings of the 9th CCF Conference on Natural Language Processing and Chinese Computing, NLPCC 2020, held in Zhengzhou, China, in October 2020. The 70 full papers, 30 poster papers and 14 workshop papers presented were carefully reviewed and selected from 320 submissions. They are organized in the following areas: Conversational Bot/QA; Fundamentals of NLP; Knowledge Base, Graphs and Semantic Web; Machine Learning for NLP; Machine Translation and Multilinguality; NLP Applications; Social Media and Network; Text Mining; and Trending Topics.

This report is a call to action for the incoming Government in May 2015. The world is being transformed by a series of profound technological changes dominated by digital - a 'second machine age'. This is already having a significant impact on the UK; over the next two decades some economists have estimated that 35% of current jobs in the UK could become automated. Digital technology is changing all our lives, work, society and politics. It brings with it huge opportunities for the UK, but also significant risks. This demands an ambitious approach which will secure the UK's position as a digital leader. The Committee recommends that the new Government establishes a single and cohesive Digital Agenda. The potential value in doing so is significant; the Government
estimated that the digital sector alone was worth an estimated £105 billion in gross value added to the UK in 2011. A report by the National Institute of Economic and Social Research in 2013, meanwhile, found that the size of the digital economy was almost double official estimates. Whatever the difficulties in quantifying the value, it is clear that digital is already a substantial driver for growth and will become much more so. Digital technology is transforming much more than just one sector of the economy - the whole economy has become digitised. It would therefore be a mistake to take the 'digital sector' as our sole focus of interest. Digital technology is pervasive across all aspects of life, so much so that the 'digital economy' is becoming synonymous with the national economy. The UK cannot afford to miss the opportunity or shirk the challenges this presents.

This book covers seismic probabilistic risk assessment (S-PRA) and related studies which have become more important to increase the safety of nuclear facilities against earthquakes and tsunamis in the face of the many uncertainties after the Fukushima accident. The topics are (1) Active faults and active tectonics important for seismic hazard assessment of nuclear facilities, (2) Seismic source modeling and simulation and modeling techniques indispensable for strong ground motion prediction, and (3) PRA with external hazard and risk communication. The Fukushima accident has showed us the limitations of the deterministic evaluation approach to external events (an earthquake and tsunami) in which there are many uncertainties. Furthermore, public anxiety regarding nuclear safety because of an unexpected threat caused by an earthquake or tsunami is growing. The current policy on the estimation of the design basis of ground motion as well as tsunami height still has not been improved following the Fukushima accident. In particular, the risk concept in a nuclear system regarding seismic motion and a tsunami beyond the design basis is indispensable. Therefore, research and development for PRA enhancing nuclear safety are being actively pursued not only in Japan but also worldwide. This book provides an opportunity for readers to consider the future direction of nuclear safety vis-à-vis natural disasters.

This eBook contains the 19 articles that were part of a Special Topic in
Frontiers in Genetics entitled “Genetics Research in Electronic Health Records Linked to DNA Biobanks”. The Special Issue was published online in 2014-2015 and contained papers representing the diverse research ongoing in the integration of electronic health records (EHR) with genomics through basic, clinical, and translational research. We have divided the eBook into four Chapters. Chapter 1 describes the Electronic Medical Records and Genomics (eMERGE) network and its contribution to genomics. It highlights methodological questions related to large data sets such as imputation and population stratification. Chapter 2 describes the results of genetic studies on different diseases for which all the phenotypic information was extracted from the EHR with highly specific ePhenotyping algorithms. Chapter 3 focuses on more complex analyses of the genome including copy number variants (CNV), pleiotropy combined with phenome-wide association studies (PheWAS), and epistasis (gene-gene interactions). Chapter 4 discusses the use of genetic data together with EHR-derived clinical data in clinical settings, and how to return genetic results to patients and providers. It also contains a comprehensive review on genetic risk scores. We have included mostly Original Research Articles in the eBook, but also Reviews and Methods papers on the relevant topics of analyzing and integrating genomic data. The release of this eBook is timely, since several countries are launching Precision Medicine initiatives. Precision Medicine is a new concept in patient care taking into account individual variability in genetic, environmental and lifestyle factors, when treating diseases or trying to prevent them from developing. It has become an important focus for biomedical, clinical and translational informatics. The papers presented in this eBook are well positioned to educate the readers about Precision Medicine and to demonstrate the potential study designs, methods, strategies, and applications where this type of research can be performed successfully. The ultimate goal is to improve diagnostics and provide better, more targeted care to the patient.

The book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2018) held at the University of Engineering & Management, Kolkata, India, on February 23–25, 2018. It comprises high-quality research by academics and industrial experts in the field of
computing and communication, including full-length papers, research-in-progress papers, case studies related to all the areas of data mining, machine learning, IoT and information security.

The two volume set CCIS 775 and 776 constitutes the refereed proceedings of the First International Conference on Computational Intelligence, Communications, and Business Analytics, CICBA 2017, held in Kolkata, India, in March 2017. The 90 revised full papers presented in the two volumes were carefully reviewed and selected from 276 submissions. The papers are organized in topical sections on data science and advanced data analytics; signal processing and communications; microelectronics, sensors, intelligent networks; computational forensics (privacy and security); computational intelligence in bio-computing; computational intelligence in mobile and quantum computing; intelligent data mining and data warehousing; computational intelligence.

This book provides a unique blend of integrated disaster risk communication research conducted by authors with diverse backgrounds, including social psychology, sociology, civil engineering, informatics, and meteorology. It reports on the latest advances in collaborative and participatory action research on community-based disaster management from the frontline in Japan, Nepal, China and the USA. In addition, it employs and integrate a broad range of methodologies, including mathematical analyses, computer simulations, questionnaire surveys, gaming approaches, and participatory observation. Each chapter deals with disaster risk communication initiatives to address various hazards, such as earthquakes, tsunamis, floods and landslides, which are uniquely integrated from a social psychological perspective.

International Conference on Industrial Engineering and Engineering Management is sponsored by Chinese Industrial Engineering Institution, CMES, which is the unique national-level academic society of Industrial Engineering. The conference is held annually as the major event in this area. Being the largest and the most authoritative international academic conference held in China, it supplies an academic platform for the experts and the entrepreneurs in International Industrial Engineering
and Management area to exchange their research results. Many experts in various fields from China and foreign countries gather together in the conference to review, exchange, summarize and promote their achievements in Industrial Engineering and Engineering Management fields. Some experts pay special attention to the current situation of the related techniques application in China as well as their future prospect, such as Industry 4.0, Green Product Design, Quality Control and Management, Supply Chain and logistics Management to cater for the purpose of low-carbon, energy-saving and emission-reduction and so on. They also come up with their assumption and outlook about the related techniques' development. The proceedings will offer theatrical methods and technique application cases for experts from college and university, research institution and enterprises who are engaged in theoretical research of Industrial Engineering and Engineering Management and its technique's application in China. As all the papers are feathered by higher level of academic and application value, they also provide research data for foreign scholars who occupy themselves in investigating the enterprises and engineering management of Chinese style.

This book examines the crisis in Ukraine, tracing its development and analysing the factors which lie behind it. It discusses above all how the two sides have engaged in political posturing, accusations, escalating sanctions and further escalating threats, arguing that the ease with which both sides have reverted to a Cold War mentality demonstrates that the Cold War belief systems never really disappeared, and that the hopes raised in the aftermath of the collapse of the Soviet Union for a new era in East-West relations were misplaced. The book pays special attention to the often ignored origins of the crisis within Ukraine itself, and the permanent damage caused by the fact that Ukrainians are killing Ukrainians in the eastern parts of the country. It also assesses why Cold War belief systems have re-emerged so easily, and concludes by considering the likely long-term ramifications of the crisis, arguing that the deep-rooted lack of trust makes the possibility of compromise even harder than in the original Cold War.

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