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Case-Based Reasoning Research and Development Springer Nature

The papers in this volume are the refereed papers presented at AI-2013, the Thirty-third SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence, held in Cambridge in December 2013 in both the technical and the application streams. They present new and innovative developments and applications, divided into technical stream sections on Knowledge Discovery and Data Mining I, Knowledge Discovery and Data Mining II, Intelligent Agents, Representation and Reasoning, and Machine Learning and Constraint Programming, followed by application stream sections on Medical Applications, Applications in Education and Information Science, and AI Applications. The volume also includes the text of short papers presented as posters at the conference. This is the thirtieth volume in the Research and Development in Intelligent Systems series, which also incorporates the twenty-first volume in the Applications and Innovations in Intelligent Systems series. These series are essential reading for those who wish to keep up to date with developments in this important field.

Advanced Informatics for Computing Research CRC Press

This book constitutes the proceedings of the 14th European Conference on Technology Enhanced Learning, EC-TEL 2019, held in Delft, The Netherlands, in September 2019. The 41 research papers and 50 demo and poster papers presented in this volume were carefully reviewed and selected from 149 submissions. The contributions reflect the debate around the role of and challenges for cutting-edge 21st century meaningful technologies and advances such as artificial intelligence and robots, augmented reality and ubiquitous computing technologies and at the same time connecting them to different pedagogical approaches, types of learning settings, and application domains that can benefit from such technologies.

Artificial Intelligence in Medicine Springer

This book highlights the latest advances in the application of artificial intelligence and data science in health care and medicine. Featuring selected papers from the 2020 Health Intelligence Workshop, held as part of the Association for the Advancement of Artificial Intelligence (AAAI) Annual Conference, it offers an overview of the issues, challenges, and opportunities in the field, along with the latest research findings. Discussing a wide range of practical applications, it makes the emerging topics of digital health and explainable AI in health care and medicine accessible to a broad readership. The availability of explainable and interpretable models is a first step toward building a culture of transparency and accountability in health care. As such, this book provides information for scientists, researchers, students, industry professionals, public health agencies, and NGOs interested in the theory and practice of computational models of public and personalized health intelligence.

Transforming Learning with Meaningful Technologies Springer Nature

How is it possible to allow multiple data owners to collaboratively train and use a shared prediction model while keeping all the local training data private? Traditional machine learning approaches need to combine all data at one location, typically a data center, which may very well violate the laws on user privacy and data confidentiality. Today, many parts of the world demand that technology companies treat user data carefully according to user-privacy laws. The European Union's General Data Protection Regulation (GDPR) is a prime example. In this book, we describe how federated machine learning addresses this problem with novel solutions combining distributed machine learning, cryptography and security, and incentive mechanism design based on economic principles and game theory. We explain different types of privacy-preserving machine learning solutions and their technological backgrounds, and highlight some representative practical use cases. We show how federated learning can become the foundation of next-generation machine learning that caters to technological and societal needs for responsible AI development and application.

Deep Learning Techniques for Biomedical and Health Informatics Springer

Advances in Biomolecular Medicine contains the selected papers presented at the 4th BIBMC (Bandung International Biomolecular Medicine Conference) and the 2nd ACMM (ASEAN Congress on Medical Biotechnology and Molecular Biosciences), hosted by the Faculty of Medicine, Padjadjaran University, Bandung, West Java, Indonesia, 4-6 October 2016. In line with the United Nations Sustainable Development Goals, the theme of the joint scientific meeting is ' Medical innovation & translational research to ensure healthy lives & promote well-being for all at all ages '. Authors include scientists, academics, practitioners, regulators and other key individuals with expertise and experience relevant to biomolecular medicine, medical biotechnology and molecular biosciences. Topics of the papers cover various aspects of infection, oncology, tuberculosis, genetics, thalassemia, nutrition, cardiovascular, wound healing and endocrinology. This book is essential reading for academics, scientist, practitioners and regulators involved in the area of biomolecular medicine, medical biotechnology and molecular biosciences.

Islamic Fintech Elsevier Health Sciences

This book features a collection of high-quality research papers presented at the International Conference on Intelligent and Cloud Computing (ICICC 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on December 20, 2019. Including contributions on system and network design that can support existing and future applications and services, it covers topics such as cloud computing system and network design, optimization for

cloud computing, networking, and applications, green cloud system design, cloud storage design and networking, storage security, cloud system models, big data storage, intra-cloud computing, mobile cloud system design, real-time resource reporting and monitoring for cloud management, machine learning, data mining for cloud computing, data-driven methodology and architecture, and networking for machine learning systems.

Brain Injury Medicine ASCD

Based on a rigorous selection of submissions to The 29th International Symposium on Computer and Information Sciences (ISCIS 2014), this books includes some of the most recent ideas and technical results in computer systems, computer science, and computer-communication networks. It offers the reader a timely access to innovative research and advances in computing and communications from many different areas of the world. The topics covered include (but are not limited to) computer architectures and digital systems, algorithms, theory, software engineering, data engineering, computational intelligence, system security, computer systems and networks, performance modeling and analysis, distributed and parallel systems, bioinformatics, computer vision and significant applications such as medical informatics and imaging. The 29th International Symposium on Computer and Information Sciences (ISCIS 2014) took place in Krakow Old City, Poland on October, 27 – 8, 2014.

Artificial Intelligence in Banking Springer

The oil palm is a remarkable crop, producing around 40% of the world ' s vegetable oil from around 6% of the land devoted to oil crops.

Conventional breeding has clearly been the major focus of genetic improvement in this crop. A mix of improved agronomy and management, coupled with breeding selection have quadrupled the oil yield of the crop since breeding began in earnest in the 1920s. However, as for all perennial crops with long breeding cycles, oil palm faces immense challenges in the coming years with increased pressure from population growth, climate change and the need to develop environmentally sustainable oil palm plantations. In Oil Palm: Breeding, Genetics and Genomics, world leading organizations and individuals who have been at the forefront of developments in this crop, provide their insights and experiences of oil palm research, while examining the different challenges that face the future of the oil palm. The editors have all been involved in research and breeding of oil palm for many years and use their knowledge of the crop and their disciplinary expertise to provide context and to introduce the different research topics covered.

Oil Palm Breeding Springer Science & Business Media

The only review book currently available in this complex field, Brain Injury Medicine: Board Review focuses on the prevention, diagnosis, treatment, and management of individuals with varying severity levels of brain injury. Focused, high-yield content prepares you for success on exams and in practice, with up-to-date coverage of traumatic brain injury (TBI), stroke, CNS neoplasms, anoxic brain injury, and other brain disorders. This unique review tool is ideal for residents, fellows, and practitioners studying or working in the field and preparing to take the brain injury medicine exam. Supports self-assessment and review with 200 board-style questions and explanations. Covers the information you need to know on traumatic brain injury by severity and pattern, neurologic disorders, systemic manifestations, rehabilitation problems and outcomes, and basic science. Includes questions on patient management including patient evaluation and diagnosis, prognosis/risk factors, and applied science.

Discusses key topics such as neurodegeneration and dementia; proteomic, genetic, and epigenetic biomarkers in TBI; neuromodulation and neuroprosthetics; and assistive technology. Reviews must-know procedures including acute emergency management and critical care; post-concussion syndrome assessment, management and treatment; diagnostic procedures and electrophysiology; neuroimaging, and brain death criteria. Ensures efficient, effective review with content written by experts in physical medicine and rehabilitation, neurology, and psychiatry and a format that mirrors the board exam outline.

Information Sciences and Systems 2014 Springer Nature

This open access book presents a comprehensive and up-to-date collection of knowledge on the state of crowdfunding research and practice. It considers crowdfunding models and their different manifestations across a variety of geographies and sectors, and explores the perspectives of fundraisers, backers, platforms, and regulators. Gathering insights from a wide range of influential researchers in the field, the book balances concepts, theory, and case studies. Going beyond previous research on crowdfunding, the contributors also investigate issues of community, sustainability, education, and ethics. A vital resource for anyone researching crowdfunding, this book offers readers a deep understanding of the characteristics, business models, user-relations, and behavioural patterns of crowdfunding.

Alternatives to Animal Testing Springer

Ability grouping. Leveling systems. Streaming. This is the modern way of talking about tracking -- the traditional practice of sorting and selecting students based on test scores and other criteria, and then steering these groups into "the most appropriate" course of study. In 1987, New York's suburban Rockville Centre School District faced the fact that its longstanding tracking system was resulting in unequal educational opportunities and allowing racial and socioeconomic stratification of its student population. School leaders embarked on an ambitious program of reform: reexamining beliefs about intelligence, ability, and instruction, and offering all students the opportunity to study a rigorous curriculum in heterogeneous classrooms. In this book, authors Carol Corbett Burris and Delia T. Garrity, veterans of the Rockville Centre School District, offer an experience-based and research-supported argument that detracking--implemented with planning, patience, and persistence--can do in every school district what it did in theirs: raise achievement across the board and dramatically narrow the achievement gap. Their main goal is a practical one: to provide educational leaders with proven strategies for launching, sustaining, and monitoring a successful detracking reform. Here, you'll read * Why detracking is necessary, the benefits it brings, and how to build support among teachers and parents * How to revise curriculum to "level-up" instruction * How to establish a multiyear, personalized professional development program to help teachers address new instructional needs * How to best support effective teaching and learning in a heterogeneous classroom Detracking for Excellence and Equity outlines a comprehensive approach built on self-reflection, direct action, vigilant supervision, and a set of very clear beliefs: that schools and opportunity matter; that acceleration and enrichment will improve all students' achievement; and that all students deserve access to the best curriculum.

Detracking for Excellence and Equity Springer Nature

The essential reference guide to writing effective business correspondence and – now revised and updated.

Process Mining in Healthcare S. Chand Publishing

Praise for the First Edition " . . . the book is a valuable addition to the literature in the field, serving as a much-needed guide for both clinicians and advanced students."—Zentralblatt MATH A new edition of the cutting-edge guide to diagnostic tests in medical research In recent years, a considerable amount of research has focused on evolving methods for designing and analyzing diagnostic accuracy studies. Statistical Methods in Diagnostic Medicine, Second Edition continues to provide a comprehensive approach to the topic, guiding readers through the necessary practices for understanding these studies and generalizing the results to patient populations. Following a basic introduction to measuring test accuracy and study design, the authors successfully define various measures of diagnostic accuracy, describe strategies for designing diagnostic accuracy studies, and present key statistical methods for estimating and comparing test accuracy. Topics new to the Second Edition include: Methods for tests designed to detect and locate lesions Recommendations for covariate-adjustment Methods for estimating and comparing predictive values and sample size calculations Correcting techniques for verification and imperfect standard biases Sample size calculation for multiple reader studies when pilot data are available Updated meta-analysis methods, now incorporating random effects Three case studies thoroughly showcase some of the questions and statistical issues that arise in diagnostic medicine, with associated data provided in detailed appendices. A related web site features Fortran, SAS®, and R software packages so that readers can conduct their own analyses. Statistical Methods in Diagnostic Medicine, Second Edition is an excellent supplement for biostatistics courses at the graduate level. It also serves as a valuable reference for clinicians and researchers working in the fields of medicine, epidemiology, and biostatistics.

Investing in Ourselves Springer Nature

Manhattan Prep 's 4th Edition GRE Strategy Guides have been redesigned with the student in mind. With updated content and new practice problems, they are the richest, most content-driven GRE materials on the market. â € ª Written by Manhattan Prep 's high-caliber GRE instructors, the GRE Geometry strategy guide equips you with powerful tools to comprehend and solve every geometry problem on the GRE. Refresh your knowledge of shapes, planes, lines, angles, objects, and more. Learn to understand the concepts and grasp their applications, mastering not only fundamental geometric principles, but also nuanced strategies for tackling the toughest questions. Each chapter provides comprehensive coverage of the subject matter through rules, strategies, and in-depth examples to help you build confidence and content mastery. In addition, the Guide contains "Check Your Skills" quizzes as you progress through the material, complete problem sets at the end of every chapter, and mixed drill sets at the end of the book to help you build accuracy and speed. All practice problems include detailed answer explanations written by top-scorers!

Artificial Intelligence in Medical Imaging Springer

The implementation of new technologies is expected to boost the development of Islamic Finance by increasing accessibility to banking and other financial services in Islamic communities and democratizing access to investment opportunities. At the same time, new technologies will increase financing opportunities and facilitate asset management for Sharia-compliant businesses. This collection of essays from selected experts in the field comprise some of the most topical issues on Islamic Fintech, combining a business focus with legal insights. The book takes as a point of departure the role that Islamic Fintech can play in promoting sustainability. The social vision of welfare improvement and justice is already embedded in Sharia 's economic rules, which makes Islamic Finance particularly well suited to bridge the gap between sustainability and funding. Although it is not without challenges for the industry, technology will help unleash its potential. With a holistic approach to Islamic Fintech, the contributing authors address the application of new technologies to Islamic Finance, including robo-advisory, crowdfunding and digital ledger technology (both in the issuance of bitcoin and the registration of securities in tokenized form) and in certain sectors such as takaful (takaful-tech) and health (e-health). Finally, they explore the challenges posed by anti-money laundering (' AML ') in the specific realm of Islamic Fintech. The book combines theoretical analysis with a practical focus, both through case studies and directly through the experiences of leading entrepreneurs. In addition, it provides insights on legal and regulatory aspects, which are key in a field that is still in its infancy and needs support from lawmakers and regulators. It is, thus, a reference for academics, legal practitioners, policymakers, entrepreneurs and the Islamic Finance community.

PWN the SAT: Math Guide Upkar Prakashan

This book addresses the importance of human factors in optimizing the learning and training process. It reports on the latest research and best practices, and discusses key principles of behavioral and cognitive science, which are extremely relevant to the design of instructional content and new technologies to support mobile and multimedia learning, virtual training and web-based learning, among others, as well as performance measurements, social and adaptive learning and many other types of educational technology, with a special emphasis on those important in the corporate, higher education, healthcare and military training contexts. Gathering contributions to the AHFE 2020 Virtual Conference on Human Factors in Training, Education, and Learning Sciences, held on July 16 – 20, 2020, the book offers a timely perspective on the role of human factors in education. It highlights important new approaches and ideas, and fosters new discussions on how to optimally design learning experiences.

Advances in Biomolecular Medicine Academic Press

This book constitutes the refereed proceedings of the 26th International Conference on Case-Based Reasoning Research and Development, ICCBR 2018, held in Stockholm, Sweden, in July 2018. The 39 full papers presented in this book were carefully reviewed and selected from 77 submissions. The theme of ICCBR-2018, "The Future of CBR", was highlighted by several activities. These papers, which are included in the proceedings, address many themes related to the theory and application of case-based reasoning and its future direction. Topics included multiple papers on textual CBR and a number of cognitive and human oriented papers as well as hybrid research between CBR and machine learning.

Intelligent and Cloud Computing CRC Press

The LNAI 12299 constitutes the papers of the 18th International Conference on Artificial Intelligence in Medicine, AIME 2020, which will be held online in August 2020. The 42 full papers presented together with 1 short papers in this volume were carefully reviewed and selected from a total of 103 submissions. The AIME 2020 goals were to present and consolidate the international state of the art of AI in biomedical research from the perspectives of theory, methodology, systems, and applications.

Oxford Handbook of Commercial Correspondence Springer

This book describes how the creation of new digital services—through vertical and horizontal integration of data coming from sensors on top of existing legacy systems—that has already had a major impact on industry is now extending to healthcare. The book describes the fourth industrial revolution (i.e. Health 4.0), which is based on virtualization and service aggregation. It shows how sensors, embedded systems, and cyber-physical systems are fundamentally changing the way industrial processes work, their business models, and how we consume, while also affecting the health and care domains. Chapters describe the technology behind the shift of point of care to point of need and away from hospitals and institutions; how care will be delivered virtually outside hospitals; that services will be tailored to individuals rather than being designed as statistical averages; that data analytics will be used to help patients to manage their chronic conditions with help of smart devices; and that pharmaceuticals will be interactive to help prevent adverse reactions. The topics presented will have an impact on a variety of healthcare stakeholders in a continuously global and hyper-connected world. · Presents explanations of emerging topics as they relate to e-health, such as Industry 4.0, Precision Medicine, Mobile Health, 5G, Big Data, and Cyber-physical systems; · Provides overviews of technologies in

addition to possible application scenarios and market conditions; · Features comprehensive demographic and statistic coverage of Health 4.0 presented in a graphical manner.

Acute Heart Failure Oxford

This open access book presents recent advances in the pure sciences that are of significance in the quest for alternatives to the use of animals in research and describes a variety of practical applications of the three key guiding principles for the more ethical use of animals in experiments — replacement, reduction, and refinement, collectively known as the 3Rs. Important examples from across the world of implementation of the 3Rs in the testing of cosmetics, chemicals, pesticides, and biologics, including vaccines, are described, with additional information on relevant regulations. The coverage also encompasses emerging approaches to alternative tests and the 3Rs. The book is based on the most informative contributions delivered at the Asian Congress 2016 on Alternatives and Animal Use in the Life Sciences. It will be of value for those working in R&D, for graduate students, and for educators in various fields, including the pharmaceutical and cosmetic sciences, pharmacology, toxicology, and animal welfare. The free, open access distribution of Alternatives to Animal Testing is enabled by the Creative Commons Attribution license in International version 4: CC BY 4.0.