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Advances in Digital Forensics XI Computational Linguistics and Intelligent Text Processing Japanese Sociology and Social Anthropology: a Guide to Japanese Reference and Research Materials Population Genomics: Wildlife Network and System Security Algebra FPGA-based Implementation of Signal Processing Systems Do Both Psychopathology and Creativity Result from a Labile Wake-Sleep-Dream Cycle? Federal Grant Law Managing Human Resource Development Computational Methods, Seismic Protection, Hybrid Testing and Resilience in Earthquake Engineering Fuzzy Set Theory — and Its Applications Epistemic Game Theory and Logic Essays on the Economics of Education Africa and the International Criminal Court Operations Research in Progress Performance Art Innovation in Information Systems and Technologies to Support Learning Research Congenital Heart Disease in Pediatric and Adult Patients Completing College Introduction to Network Security Dynamics of Disasters—Key Concepts, Models, Algorithms, and Insights Writing Centres in Higher Education Advanced Graph Theory and Combinatorics My Dangerous Desires Proofs from THE BOOK Epistemic Game Theory Marburg's Thoroughbass and Composition Handbook The RISC-V Reader Wearable Electronics Sensors Petrogenesis and Exploration of the Earth's Interior Polyhedral Computation Harmonic Oscillators and Two-By-Two Matrices in Symmetry Problems in Physics Brain Informatics and Health Street Marketing TM: The Future of Guerrilla Marketing and Buzz Molecular Aspects of Plant-Pathogen Interaction Endophytes and Secondary Metabolites Artificial Intelligence and Evolutionary Computations in Engineering Systems Final Fantasy XLanthanide-Doped Luminescent Nanomaterials

Advances in Digital Forensics XI

Computational Linguistics and Intelligent Text Processing

Writing Centres in South Africa, and globally, are now well established academic support centres within many universities. Historically tasked with supporting students as they grapple with the demands of academic writing, many centres are now moving beyond their own walls to work with academic tutors, lecturers and departments to rethink the ways in which knowledge is transformed into different kinds of disciplinary writing. This move raises pertinent questions for writing centre directors, tutors/consultants, and for the universities that house them: how does a centre, tasked with supporting more general academic literacy development through writing pedagogies, initiate students into a range of particularised discourse communities? How do writing centre staff and disciplinary lecturers negotiate their shared, and separate, concerns for student learning through collaborative writing development projects? How do writing centres work with assignments and forms of literacy that challenge them to reconfigure their own pedagogical practices and expand their conceptions of writing support? How do writing centres maintain their core focus as they move flexibly beyond their own spaces to understand the nature of disciplinary writing? This collection of essays reflects on the ways in which writing centres in South Africa are working in and across disciplines. Institutional constraints and challenges that arise from these

collaborations are addressed and opportunities for transforming teaching and learning spaces are explored. The chapters speak to the global move in higher education to reconsider how knowledge is made, who makes it, and how support and development opportunities for students and lecturers should be created and sustained across the disciplines. This volume contributes to the body of knowledge in the growing field of the scholarship of teaching and learning in higher education in South Africa. It builds on the work of the first collection of such essays: *Changing Spaces: Writing Centres and Access to Higher Education* (Eds. A. Archer and R. Richards, 2011, SUN PReSS) to understand why working within the disciplines is so critical for writing development in a South African context.

Japanese Sociology and Social Anthropology: a Guide to Japanese Reference and Research Materials

Advanced Graph Theory focuses on some of the main notions arising in graph theory with an emphasis from the very start of the book on the possible applications of the theory and the fruitful links existing with linear algebra. The second part of the book covers basic material related to linear recurrence relations with application to counting and the asymptotic estimate of the rate of growth of a sequence satisfying a recurrence relation.

Population Genomics: Wildlife

Revised edition of: *FPGA-based implementation of signal processing systems* / Roger Woods [et al.]. 2008.

Network and System Security

This book is a printed edition of the Special Issue "Harmonic Oscillators In Modern Physics" that was published in *Symmetry*

Algebra

Many polytopes of practical interest have enormous output complexity and are often highly degenerate, posing severe difficulties for known general-purpose algorithms. They are, however, highly structured, and attention has turned to exploiting this structure, particularly symmetry. Initial applications of this approach have permitted computations previously far out of reach, but much remains to be understood and validated experimentally. The papers in this volume give a good snapshot of the ideas discussed at a Workshop on Polyhedral Computation held at the CRM in Montreal in October 2006 and, with one exception, the current state of affairs in this area. The exception is the inclusion of an often cited 1980 technical report of Norman Zadeh, which was never published in a journal and has passed into the folklore of the discipline. This paper illustrates beautifully the work still to be done in the field: it gives a simple pivot rule for the simplex method for which it is still unknown if it yields a polynomial time algorithm.

FPGA-based Implementation of Signal Processing Systems

Do Both Psychopathology and Creativity Result from a Labile Wake-Sleep-Dream Cycle?

According to the great mathematician Paul Erdős, God maintains perfect mathematical proofs in The Book. This book presents the authors candidates for such "perfect proofs," those which contain brilliant ideas, clever connections, and wonderful observations, bringing new insight and surprising perspectives to problems from number theory, geometry, analysis, combinatorics, and graph theory. As a result, this book will be fun reading for anyone with an interest in mathematics.

Federal Grant Law

Managing Human Resource Development

Computational Methods, Seismic Protection, Hybrid Testing and Resilience in Earthquake Engineering

Introductory textbook in the important area of network security for undergraduate and graduate students
Comprehensively covers fundamental concepts with newer topics such as electronic cash, bit-coin, P2P, SHA-3, E-voting, and Zigbee security
Fully updated to reflect new developments in network security
Introduces a chapter on Cloud security, a very popular and essential topic
Uses everyday examples that most computer users experience to illustrate important principles and mechanisms
Features a companion website with Powerpoint slides for lectures and solution manuals to selected exercise problems, available at <http://www.cs.uml.edu/~wang/NetSec>

Fuzzy Set Theory – and Its Applications

The book is a tribute to the research contribution of Professor Andrei Reinhorn in the field of earthquake engineering. It covers all the aspects connected to earthquake engineering starting from computational methods, hybrid testing and control, resilience and seismic protection which have been the main research topics in the field of earthquake engineering in the last 30 years. These were all investigated by Prof. Reinhorn throughout his career. The book provides the most recent advancements in these four different fields, including contributions coming from six different countries giving an international outlook to the topics.

Epistemic Game Theory and Logic

This book constitutes the proceedings of the International Conference on Brain Informatics and Health, BIH 2015, held in London, UK, in August/September 2015. The 42 full papers presented were carefully reviewed and selected from 82 submissions. Following the success of past conferences in this series, BIH 2015 has a strong emphasis on emerging trends of big data analysis and management technology for brain research, behavior learning, and real-world applications of

brain science in human health and wellbeing.

Essays on the Economics of Education

First published in 1979, the latest edition of this pioneering study in "the World of Art" series surveys a full century of performance, from the Futurist manifesto of 1909 to the second decade of the new millennium. Art historian and gallery curator Rose Lee Goldberg explains how a medium once used only in sporadic outbreaks of artistic dissent has become, over the course of a century, a vital and integral part of the contemporary mainstream and a global phenomenon.

Africa and the International Criminal Court

The first textbook to explain the principles of epistemic game theory.

Operations Research in Progress

Performance Art

This edited book contains invited papers from renowned experts working in the field of Wearable Electronics Sensors. It includes 14 chapters describing recent advancements in the area of Wearable Sensors, Wireless Sensors and Sensor Networks, Protocols, Topologies, Instrumentation architectures, Measurement techniques, Energy harvesting and scavenging, Signal processing, Design and Prototyping. The book will be useful for engineers, scientist and post-graduate students as a reference book for their research on wearable sensors, devices and technologies which is experiencing a period of rapid growth driven by new applications such as heart rate monitors, smart watches, tracking devices and smart glasses.

Innovation in Information Systems and Technologies to Support Learning Research

Friedrich Wilhelm Marpurg is widely recognized today as a highly important, prolific, and influential writer of the 18th-century musical scene. His Handbuch, however, has not received the study and recognition it deserves as one of the most significant and complete composition methods from any period in history. Within its 341 pages and almost 1000 musical examples, Marpurg leads his reader through an extensive course in musical composition beginning with the handling of every conceivable interval, then proceeding to writing for two or more voices, and ending with instruction in canon, fugue, and various types of interval counterpoint. The section devoted to fugue constitutes both a distillation and a refinement of Marpurg's Abhandlung von der Fuge (1753-54), the first monograph devoted to the subject. David Sheldon is a recognized authority on music theory in the critical mid-18th century decades when the Baroque as a musical concept passes into the great Classic Era. This volume carefully examines the material of the Handbuch with regard to origin and influence, while organizing it in such a way as to clarify Marpurg's main concepts and contributions. In this new, translated form the

Handbuch will offer much to the present-day scholar and student.

Congenital Heart Disease in Pediatric and Adult Patients

Even as the number of students attending college has more than doubled in the past forty years, it is still the case that nearly half of all college students in the United States will not complete their degree within six years. It is clear that much remains to be done toward improving student success. For more than twenty years, Vincent Tinto's pathbreaking book *Leaving College* has been recognized as the definitive resource on student retention in higher education. Now, with *Completing College*, Tinto offers administrators a coherent framework with which to develop and implement programs to promote completion. Deftly distilling an enormous amount of research, Tinto identifies the essential conditions enabling students to succeed and continue on within institutions. Especially during the early years, he shows that students thrive in settings that pair high expectations for success with structured academic, social, and financial support, provide frequent feedback and assessments of their performance, and promote their active involvement with other students and faculty. And while these conditions may be worked on and met at different institutional levels, Tinto points to the classroom as the center of student education and life, and therefore the primary target for institutional action. Improving retention rates continues to be among the most widely studied fields in higher education, and *Completing College* carefully synthesizes the latest research and, most importantly, translates it into practical steps that administrators can take to enhance student success.

Completing College

This book is a printed edition of the Special Issue "Epistemic Game Theory and Modal Logic" that was published in *Games*

Introduction to Network Security

The two-volume set LNCS 10761 + 10762 constitutes revised selected papers from the CICLing 2017 conference which took place in Budapest, Hungary, in April 2017. The total of 90 papers presented in the two volumes was carefully reviewed and selected from numerous submissions. In addition, the proceedings contain 4 invited papers. The papers are organized in the following topical sections: Part I: general; morphology and text segmentation; syntax and parsing; word sense disambiguation; reference and coreference resolution; named entity recognition; semantics and text similarity; information extraction; speech recognition; applications to linguistics and the humanities. Part II: sentiment analysis; opinion mining; author profiling and authorship attribution; social network analysis; machine translation; text summarization; information retrieval and text classification; practical applications.

Dynamics of Disasters—Key Concepts, Models, Algorithms, and Insights

Proceedings of the Joint Meeting of the Austrian and Swiss Operations Research

Societies, Vienna, September 22-24, 1980

Writing Centres in Higher Education

This edited volume is based on the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. The book is of interest to all researchers in the fields of Mineralogy, Geochemistry, Petrology and Volcanology. The Earth's interior is a source of heat, which makes our planet unique. This source regulates the formation and evolution of rocks at larger scales, and of minerals and sediments toward smaller scales. In such context, the exploration of georesources (products) has to be related to petrogenesis (processes). This volume offers an overview of the state-of-the-art petrogenesis and exploration in, but not limited to, the Middle East and Mediterranean regions. It gives new insights into processes and products related to the Earth's interior, and associated georesources by international researchers. Main topics include: 1. Petrogenetic processes: geochemistry, geochronology and geophysical approaches 2. Surficial processes: sedimentation and facies analysis 3. Applied mineralogy and tectonics 4. Geological research applied to mineral deposits

Advanced Graph Theory and Combinatorics

Digital forensics deals with the acquisition, preservation, examination, analysis and presentation of electronic evidence. Networked computing, wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations. Practically every crime now involves some aspect of digital evidence; digital forensics provides the techniques and tools to articulate this evidence. Digital forensics also has myriad intelligence applications. Furthermore, it has a vital role in information assurance -- investigations of security breaches yield valuable information that can be used to design more secure systems. Advances in Digital Forensics XI describes original research results and innovative applications in the discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations. The areas of coverage include: Themes and Issues Internet Crime Investigations Forensic Techniques Mobile Device Forensics Cloud Forensics Forensic Tools This book is the eleventh volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.9 on Digital Forensics, an international community of scientists, engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics. The book contains a selection of twenty edited papers from the Eleventh Annual IFIP WG 11.9 International Conference on Digital Forensics, held in Orlando, Florida in the winter of 2015. Advances in Digital Forensics XI is an important resource for researchers, faculty members and graduate students, as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities. Gilbert Peterson, Chair, IFIP WG 11.9 on Digital Forensics, is a Professor of Computer Engineering at the Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio, USA. Sujeet Shenoj is the F.P. Walter Professor of Computer Science and a Professor of Chemical Engineering at the University of Tulsa, Tulsa, Oklahoma, USA.

My Dangerous Desires

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Algebra, Second Edition, by Michael Artin, provides comprehensive coverage at the level of an honors-undergraduate or introductory-graduate course. The second edition of this classic text incorporates twenty years of feedback plus the author's own teaching experience. This book discusses concrete topics of algebra in greater detail than others, preparing readers for the more abstract concepts; linear algebra is tightly integrated throughout.

Proofs from THE BOOK

Presents over twenty years of the author's work examining such themes as the relationship between activism and desire, sexuality and class identity, and the author's own political development as a response to her unique personal history.

Epistemic Game Theory

The book is a collection of high-quality peer-reviewed research papers presented in the International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES 2017). The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. Researchers from academia and industry have presented their original work and ideas, information, techniques and applications in the field of communication, computing and power technologies.

Marpurg's Thoroughbass and Composition Handbook

Lanthanide-Doped Luminescent Nanomaterials reviews the latest advances in the development of lanthanide-doped luminescent inorganic nanoparticles for potential bioapplications. This book covers the chemical and physical fundamentals of these nanoparticles, such as the controlled synthesis methodology, surface modification chemistry, optical physics, and their promising applications in diverse bioassays, with an emphasis on heterogeneous and homogeneous in-vitro biodetection of tumor biomarkers. This book is intended for those readers who are interested in systematically understanding the materials design strategy, optical behavior of lanthanide ions, and practical bioapplications of lanthanide nanoparticles. It primarily focuses on the interdisciplinary frontiers in chemistry, physics and biological aspects of luminescent nanomaterials. All chapters were written by scientists active in this field and for a broad audience, providing both beginners and advanced researchers with comprehensive information on the subject. Xueyuan Chen is a Professor at Fujian Institute of Research on the Structure of Matter (FJIRSM), Chinese Academy of Sciences. Yongsheng Liu is a Research Associate Professor at FJIRSM, Chinese Academy of Sciences. Datao Tu is a Research Assistant Professor at FJIRSM, Chinese Academy of Sciences.

The RISC-V Reader

Wearable Electronics Sensors

Congenital Heart Disease in Pediatric and Adult Patients: Anesthetic and Perioperative Management provides a comprehensive, up-to-date overview of care of the pediatric patient undergoing cardiac surgery and anesthesia. After introductory chapters that encompass pediatric cardiovascular embryology, physiology and pharmacology, diagnostic approaches and preoperative considerations are explained. The intraoperative management of a wide range of specific lesions is then discussed, with full descriptions of anesthesia plans added with descriptions on diagnostic methods and surgical interventions. Postoperative care is also addressed, and a concluding section considers anesthesia outside the cardiac operating room. In the twenty-first century, advances in minimally invasive technology have led to the introduction of a wide array of pediatric cardiac procedures. More traditional surgical procedures have also been transformed by new devices and surgical approaches. The cardiac anesthesiologist is faced with an ever-increasing role in the perioperative care of pediatric patients undergoing cardiologic procedures in operating rooms, as well as less conventional locations. In this book, accomplished experts from around the world in the fields of pediatric anesthesia, cardiology, and cardiac surgery describe the multiple facets of caring for this very unique patient population.

Petrogenesis and Exploration of the Earth's Interior

This compelling book shows companies new methods of marketing communication that will break through the noise created by the competition and allow them to differentiate their offerings and their brands. Consumers see roughly 6,000 advertisements daily—30,000 brands per month. Marketing and advertising in saturated markets is tough. How can companies successfully differentiate their offerings and their brands? In *Street Marketing™: The Future of Guerrilla Marketing and Buzz*, Marcel Saucet answers this question by exposing readers to new forms of unconventional marketing. Intended for companies as well as marketing students, this is a guide to the vibrant future of marketing, where social media meets the street. The advantages of applying the author's Street Marketing methods include low cost, high impact, the ability to apply a personal approach, and genuine novelty of the messaging that garners the consumer's attention. The book examines why conventional marketing is no longer enough to sell products and services, and explains how Street Marketing creatively promotes the brand in the street—via street art and street culture—that results in an innovative and cost-effective methodology to reach buyers. Readers will come away with a comprehension of the current crisis on conventional marketing and with the ability to conceptualize their own guerrilla marketing campaign in the street, at shopping malls, and other public places. Thoroughly explains the compelling advantages of Street Marketing™, including low cost, high impact, and a personal approach that creates an emotional response Explains the current crisis of conventional marketing in a brand society, identifies the need for non-conventional approaches for the emerging non-conventional market, and addresses the origins and definitions of non-conventional marketing approaches Provides real-world examples of successful Street Marketing by major companies and organizations such as Heineken, Greenpeace, World Wildlife Fund (WWF), and Mini (automobiles) Written by an accomplished marketing consultant and business owner who has put

his Street Marketing™ concepts and practices into action for well-known organizations and companies as diverse as Intel, Lancôme, Clarins, Microsoft, Sony, and the World Council of People at the United Nations

Polyhedral Computation

This volume results from the “Second International Conference on Dynamics of Disasters” held in Kalamata, Greece, June 29-July 2, 2015. The conference covered particular topics involved in natural and man-made disasters such as war, chemical spills, and wildfires. Papers in this volume examine the finer points of disasters through: Critical infrastructure protection Resiliency Humanitarian logistic Relief supply chains Cooperative game theory Dynamical systems Decision making under risk and uncertainty Spread of diseases Contagion Funding for disaster relief Tools for emergency preparedness Response, and risk mitigation Multi-disciplinary theories, tools, techniques and methodologies are linked with disasters from mitigation and preparedness to response and recovery. The interdisciplinary approach to problems in economics, optimization, government, management, business, humanities, engineering, medicine, mathematics, computer science, behavioral studies, emergency services, and environmental studies will engage readers from a wide variety of fields and backgrounds.

Harmonic Oscillators and Two-By-Two Matrices in Symmetry Problems in Physics

This book constitutes the proceedings of the 12th International Conference on Network and System Security, NSS 2018, held in Hong Kong, China, in August 2018. The 26 revised full papers and 9 short papers presented in this book were carefully reviewed and selected from 88 initial submissions. The papers cover a wide range of topics in the field, including blockchain, mobile security, applied cryptography, authentication, biometrics, IoT, privacy, and education.

Brain Informatics and Health

Laypeople think of wake, sleep and dreaming as distinct states of the mind/brain but “in-between”, hybrid states are recognized. For example, day-dreaming or, more scientifically, the default network occurs during wake. Equally, during sleep, lucid dreaming in rapid eye movement (REM) sleep presents as another hybrid state. But hybrid states are usually temporary. This book explores the possibility of an enduring hybrid wake-sleep-dream state, proposing that such a state may engender both creativity and psychopathologies. REM sleep is hyper-associative. Creativity depends on making remote associations. If REM sleep and dreaming begin to suffuse the wake state, enhanced creativity may result. But moderate to severe interpenetration of wake, sleep and dreaming may engender psychopathologies – as the functions of wake, sleep and dreaming are partially eroded.

Street Marketing™: The Future of Guerrilla Marketing and Buzz

The book offers an integrated overview of plant-pathogen interactions. It discusses all the steps in the pathway, from the microbe-host-cell interface and the plant's recognition of the microbe to the plant's defense response and biochemical alterations to achieve tolerance / resistance. It also sheds light on the classes of pathogens (bacteria, fungus and viruses); effector molecules, such as PAMPs; receptor molecules like PRRs and NBS-LRR proteins; signaling components like MAPKs; regulatory molecules, such as phytohormones and miRNA; transcription factors, such as WRKY; defense-related proteins such as PR-proteins; and defensive metabolites like secondary metabolites. In addition, it examines the role of post-genomics, high-throughput technology (transcriptomics and proteomics) in studying pathogen outbreaks causing crop losses in a number of plants. Providing a comprehensive picture of plant-pathogen interaction, the updated information included in this book is valuable for all those involved in crop improvement.

Molecular Aspects of Plant-Pathogen Interaction

This reference work presents an authoritative review of endophytes and their applications to human welfare. Endophytes have become a class of interesting and curious microorganisms due to their intimate intra- and intercellular association with plants for competence, survival and reproduction. They can be bacteria or fungi, and they are usually non-pathogenic to their host. Endophytes have important applications in agriculture and industry, namely, they can help with plant growth, act as biocontrol agents and biosurfactant and secondary metabolite producers, and they are also rich sources of bioactive natural products. Novel and beneficial effects of endophytes are constantly emerging, and this book, divided into four sections, provides readers with the latest developments in this fast expanding field. In the first section, readers will discover the biology of the major groups of endophytes, followed by a summary of conventional and molecular tools for endophytes' identification in Section II. The production of high-value metabolites by endophytes will be explored in the third section of this book, and in the final section, readers will find several case studies, examples and prospects for endophytes' application in agriculture and industry. Written by leading international authors, this reference work will appeal to a wide readership, from students and researchers in the field of botany, biotechnology and agriculture to professionals interested in the production and applications of endophytic metabolites.

Endophytes and Secondary Metabolites

The most comprehensive guide ever produced by Piggyback leaves no stone unturned in exploring every facet of the epic Final Fantasy(r) X. These 228 full-colour pages are packed with exclusive artwork, high-resolution screenshots, detailed information, statistics, maps and more. Detailed secrets to Final Fantasy(r) X with exclusive info from the game s developers Complete game system with all hidden combat possibilities In-depth Sphere Grid and more: we cover all aspects of developing your characters Comprehensive area maps showing all objects to be found Exhaustive mini-game tactics: blitzball made easy Entire step-by-step walkthrough as you would expect from Piggyback All-inclusive information and statistics on monsters, weapons, items and abilities

Artificial Intelligence and Evolutionary Computations in Engineering Systems

This book provides glimpses into contemporary research in information systems & technology, learning, artificial intelligence (AI), machine learning, and security and how it applies to the real world, but the ideas presented also span the domains of telehealth, computer vision, the role and use of mobile devices, brain-computer interfaces, virtual reality, language and image processing and big data analytics and applications. Great research arises from asking pertinent research questions. This book reveals some of the authors' "beautiful questions" and how they develop the subsequent "what if" and "how" questions, offering readers food for thought and whetting their appetite for further research by the same authors.

Final Fantasy X

The book deals with the controversial relationship between African states, represented by the African Union, and the International Criminal Court. This relationship started promisingly but has been in crisis in recent years. The overarching aim of the book is to analyze and discuss the achievements and shortcomings of interventions in Africa by the International Criminal Court as well as to develop proposals for cooperation between international courts, domestic courts outside Africa and courts within Africa. For this purpose, the book compiles contributions by practitioners of the International Criminal Court and by role players of the judiciary of African countries as well as by academic experts.

Lanthanide-Doped Luminescent Nanomaterials

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