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Voltage Control in the Future Power Transmission Systems
 The Handbook of Intellectual Disability and Clinical Psychology Practice
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 Technoliteracy, Discourse, and Social Practice: Frameworks and Applications in the Digital Age
 Music Technology with Swing
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 Experimental Transplantation Models in Small Animals
 Technological Innovation for Sustainability
 8th International Conference on Practical Applications of Computational Biology & Bioinformatics (PACBB 2014)
 Design and Control of Intelligent Robotic Systems
 ECGBL2011-Proceedings of the 5th European Conference on Games Based Learning
 Restoring Floodplains in Europe
 Encyclopedia of Special Education, Volume 4
 Oil Spill Dispersants
 Intelligent Distributed Computing IV
 River restoration: a strategic approach to planning and management
 Proceedings of the 5th International Symposium on Fluid-Structure Interaction, Aeroelasticity, Flow-Induced Vibration and Noise
 Data Mining Techniques in Sensor Networks
 Design Aids of Offshore Structures Under Special Environmental Loads including Fire Resistance
 Computational Intelligence and Security
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Voltage Control in the Future Power Transmission Systems Routledge

With the increasing applications of intelligent robotic systems in various fields, the design and control of these systems have increasingly attracted interest from researchers. This edited book entitled "Design and Control of Intelligent Robotic Systems" in the book series of "Studies in Computational Intelligence" is a collection of some advanced research on design and control of intelligent robots. The works presented range in scope from design methodologies to robot development. Various design approaches and algorithms, such as evolutionary computation, neural networks, fuzzy logic, learning, etc. are included. We also would like to mention that most studies reported in this book have been implemented in physical systems. An overview on the applications of computational intelligence in bio-inspired robotics is given in Chapter 1 by M. Begum and F. Karray, with highlights of the recent progress in bio-inspired robotics research and a focus on the usage of computational intelligence tools to design human-like cognitive abilities in the robotic systems. In Chapter 2, Lisa L. Grant and Ganesh K. Venayagamoorthy present greedy search, particle swarm optimization and fuzzy logic based strategies for navigating a swarm of robots for target search in a hazardous environment, with potential applications in high-risk tasks such as disaster recovery and hazardous material detection.

The Handbook of Intellectual Disability and Clinical Psychology Practice CRC Press

The only comprehensive reference devoted to special education The highly acclaimed Encyclopedia of Special Education addresses issues of importance ranging from theory to practice and is a critical reference for researchers as well as those working in the special education field. This completely updated and comprehensive A-Z reference includes about 200 new entries, with increased attention given to those topics that have grown in importance since the publication of the third edition, such as technology, service delivery policies, international issues, neuropsychology, and RTI. The latest editions of assessment instruments frequently administered in special education settings are discussed. Only encyclopedia or comprehensive reference devoted to special education Edited and written by leading researchers and scholars in the field New edition includes over 200 more entries than previous edition, with increased attention given to those topics that have grown in importance since the publication of the third edition—such as technology, service delivery policies, international issues, neuropsychology, and

Response to Intervention, Positive Behavioral Interventions and Supports (PBIS), Autism and Applied Behavior Analysis Entries will be updated to cover the latest editions of the assessment instruments frequently administered in special education settings Includes an international list of authors and descriptions of special education in 35 countries Includes technology and legal updates to reflect a rapidly changing environment Comprehensive and thoroughly up to date, this is the essential, A-Z compilation of authoritative information on the education of those with special needs.

Thermal Energy Springer

This volume constitutes selected papers from the 12th International Conference on Text, Speech and Dialogue, TSD 2009, held in Pilsen, Czech Republic, in September 2009. This volume contains a collection of submitted papers presented at the conference which were thoroughly reviewed by three members of the conference reviewing team consisting of more than 40 top specialists in the conference topic areas. A total of 53 accepted papers out of 112 submitted, altogether contributed 127 authors and co-authors, were selected for presentation at the conference by the program committee and then included in this book. Theoretical and more general contributions were presented in common (plenary) sessions. Problem oriented sessions as well as panel discussions then brought together the specialists in limited problem areas with the aim of exchanging knowledge and skills resulting from research projects of all kinds.

Technoliteracy, Discourse, and Social Practice: Frameworks and Applications in the Digital Age Springer

This book constitutes the proceedings of the 24th Annual IFIP WG 11.3 Working Conference on Data and Applications Security, held in Rome Italy in June 2010. The 18 full and 11 short papers presented in this volume were carefully reviewed and selected from 61 submissions. The topics covered are query and data privacy; data protection; access control; data confidentiality and query verification; policy definition and enforcement; and trust and identity management.

Music Technology with Swing Earthscan

This book provides detailed analysis methods and design guidelines for fire resistance, a vital consideration for offshore processing and production platforms. Recent advancements in the selection of various geometric structural forms for deep-water oil exploration and production require a detailed understanding of the design of offshore structures under special loads. Focusing on a relatively new aspect of offshore engineering, the book offers essential teaching material, illustrating and explaining the concepts discussed through many tutorials. It creates a basis for designing new courses for students of ocean engineering and naval architecture, civil engineering, and applied mechanics at

both undergraduate and graduate levels. As such, its content can be used for self-study or as a text in structured courses and professional development programs.

Biochar for Environmental Management UNESCO Publishing
 The 33 peer-reviewed contributions published in this book address a wide range of topics related to the theory and applications of intelligent distributed computing and multi-agent systems. They cover topics from bio-informatics to semantic web services.

The New Literacies IGI Global

This book constitutes the thoroughly refereed post-proceedings of the annual International Conference on Computational Intelligence and Security, CIS 2006, held in Guangzhou, China in November 2006. The 116 revised papers presented were carefully reviewed and selected from a total of 2078 initial submissions during two rounds of revision and improvement. The papers are organized in topical sections on bio-inspired computing, evolutionary computation, learning systems and multi-agents, cryptography, information processing and intrusion detection, systems and security, image and signal processing, as well as pattern recognition.

Global Cheesemaking Technology John Wiley & Sons

The book details sources of thermal energy, methods of capture, and applications. It describes the basics of thermal energy, including measuring thermal energy, laws of thermodynamics that govern its use and transformation, modes of thermal energy, conventional processes, devices and materials, and the methods by which it is transferred. It covers 8 sources of thermal energy: combustion, fusion (solar) fission (nuclear), geothermal, microwave, plasma, waste heat, and thermal energy storage. In each case, the methods of production and capture and its uses are described in detail. It also discusses novel processes and devices used to improve transfer and transformation processes.

Feedback Systems IGI Global

"This book will provide insight on the issues and repercussions of collecting and analysing the movement of people using techniques such as privacy preserving data mining, ontologies, space-time modeling and visualization"—Provided by publisher.
MITRE Systems Engineering Guide Cambridge University Press
 With contributions from leading scholars, this compelling volume offers fresh insights into literacy teaching and learning—and the changing nature of literacy itself—in today's K-12 classrooms. The focus is on varied technologies and literacies such as social networking sites, text messaging, and online communities. Cutting-edge approaches to integrating technology into traditional, print-centered reading and writing instruction are described. Also discussed are ways to teach the new skills and strategies that students need to engage effectively with digital

texts. The book is unique in examining new literacies through multiple theoretical lenses, including behavioral, semiotic, cognitive, sociocultural, critical, and feminist perspectives.

Biologically-responsive Hybrid Biomaterials: A Reference For Material Scientists And Bioengineers Springer

An interdisciplinary introduction to the structural and scattering properties of complex photonic media, focusing on deterministic aperiodic structures and their conceptual roots in geometry and number theory. An essential tool for students at the graduate or advanced undergraduate level.

Synthetic Aperture Radar Polarimetry IWA Publishing

This book reports on the formulation of a multi-stage optimization framework for the Danish power system, taking into account the real operational cost, the voltage constraints and the uncertainty associated to the forecasting errors of the wind power. It describes in detail the implementation of this framework into a simulation platform and its validation in real-world applications. The book especially focuses on automatic voltage control systems and on methods to handle uncertainty in them. All in all, it provides readers with a comprehensive overview of power system optimization and future trends in power system operation.

Psychoeducational Assessment of Preschool Children Springer Science & Business Media

"This is a must-have for any researcher in vocational psychology or career counseling, or anyone who wishes to understand the empirical underpinnings of the practice of career counseling." - Mark Pope, EdD College of Education, University of Missouri - St. Louis past president of the American Counseling Association Today's career development professional must choose from a wide array of theories and practices in order to provide services for a diverse range of clients. *Career Development and Counseling: Putting Theory and Research to Work* focuses on scientifically based career theories and practices, including those derived from research in other disciplines. Driven by the latest empirical and practical evidence, this text offers the most in-depth, far-reaching, and comprehensive career development and counseling resource available. *Career Development and Counseling* includes coverage of: Major theories of career development, choice, and adjustment Informative research on occupational aspirations, job search success, job satisfaction, work performance, career development with people of color, and women's career development Assessment of interests, needs and values, ability, and other important constructs Occupational classification and sources of occupational information Counseling for school-aged youth, diverse populations, choice-making, choice implementation, work adjustment, and retirement Special needs and applications including those for at-risk, intellectually talented, and work-bound youth; people with disabilities; and individuals dealing with job loss, reentry, and career transitions Edited by two of the leading figures in career development, and featuring contributions by many of the most well-regarded specialists in the field, *Career Development and Counseling: Putting Theory and Research to Work* is the one book that every career counselor, vocational psychologist, and serious student of career development must have.

Text, Speech and Dialogue Springer

Conjugation of synthetic materials with cell-responsive biologically-active molecules, in addition to providing structural support and release of biomolecules in the regenerating region, can provide the signaling factors required to initiate the cascade of cell migration, adhesion, differentiation, maturation, growth factor modulation, maintenance of matrix integrity, and tissue morphogenesis. Nanoparticles conjugated with ligands that preferentially interact with cell surface receptors in the tumor environment have the potential to drastically improve bioavailability, selectivity and residence time of the chemotherapeutic agent in the tumor microenvironment, while limiting their peripheral toxicity. Multivalent presentation of tumor-associated antigens on a targeted delivery system containing T and B cell epitopes can result in strong, long-lasting, self-adjuvant immunity against cancer and other diseases in

vaccination. These examples demonstrate that cell-responsive conjugate biomaterials have profoundly impacted the medical field. This book is divided into three sections. In the first section, synthesis and characterization, conformation, structure-activity, self-assembly, and host response of conjugate hybrid biomaterials are covered. The second section is dedicated to the applications of conjugate biomaterials in drug delivery and vaccination while the last section is devoted to tissue engineering applications including cell adhesion, control of the stem cell niche, cartilage regeneration, neural and vascular tissue engineering, and dynamic cell culture systems for functionalized biomaterials. There is no doubt that biologically-responsive conjugate biomaterials play a key role in the design of biologics and medical devices, and this pioneering reference book provides a comprehensive review on synthesis, characterization, structure-activity, 3D assembly/fabrication, host response and the emerging applications of conjugate hybrid biomaterials.

Advances in Natural Language Processing, Intelligent Informatics and Smart Technology Springer

Psychoeducational Assessment of Preschool Children, Fifth Edition, provides academics and school-based practitioners such as psychologists, speech-language pathologists, and social workers with an up-to-date guide to the assessment of young children. Long recognized as the standard text and reference in its field, this comprehensive, skill-building overview is organized into four sections: foundations, ecological assessment, assessment of developmental domains, and special considerations. Chapters written by recognized scholars in the field cover theory, research, and application. This thoroughly revised new edition addresses current developments in preschool assessment, new policies and legislation, and student/family population demographics.

Cases on Educational Technology Integration in Urban Schools John Wiley & Sons

As digital technologies continue to develop and evolve, an understanding of what it means to be technologically literate must also be redefined. Students regularly make use of digital technologies to construct written text both in and out of the classroom, and for modern writing instruction to be successful, educators must adapt to meet this new dichotomy. *Exploring Technology for Writing and Writing Instruction* examines the use of writing technologies in early childhood, elementary, secondary, and post-secondary classrooms, as well as in professional development contexts. This book provides researchers, scholars, students, educators, and professionals around the world with access to the latest knowledge on writing technology and methods for its use in the classroom.

Data and Applications Security and Privacy XXIV CRC Press

This book constitutes the refereed proceedings of the 13th International Symposium on Music Technology with Swing, CMMR 2017, held in Matosinhos, Portugal, in September 2017. The 44 full papers presented were selected from 64 submissions. The papers are grouped in eight sections: music information retrieval, automatic recognition, estimation and classification, electronic dance music and rhythm, computational musicology, sound in practice: auditory guidance and feedback in the context of motor learning and motor adaptation, human perception in multimodal context, cooperative music networks and musical HCl, virtual and augmented reality, research and creation: spaces and modalities.

Lightning Protection Guide Springer Science & Business Media

Approximately 3 million gallons of oil or refined petroleum products are spilled into U.S. waters every year. Oil dispersants (chemical agents such as surfactants, solvents, and other compounds) are used to reduce the effect of oil spills by changing the chemical and physical properties of the oil. By enhancing the amount of oil that physically mixes into the water, dispersants can reduce the potential that a surface slick will contaminate shoreline habitats. Although called for in the Oil Pollution Act of 1990 as a tool for minimizing the impact of oil spills, the use of chemical dispersants has long been controversial. This book reviews the adequacy of existing information and ongoing

research regarding the effectiveness of dispersants as an oil spill response technique, as well as the effect of dispersed oil on marine and coastal ecosystems. *Oil Spill Dispersants* also includes recommended steps for policy makers faced with making hard choices regarding the use of dispersants as part of spill contingency planning efforts or during actual spills.

Cross-Cultural and Cross-Disciplinary Perspectives in Social Gerontology Springer Science & Business Media

Sensor networks comprise of a number of sensors installed across a spatially distributed network, which gather information and periodically feed a central server with the measured data. The server monitors the data, issues possible alarms and computes fast aggregates. As data analysis requests may concern both present and past data, the server is forced to store the entire stream. But the limited storage capacity of a server may reduce the amount of data stored on the disk. One solution is to compute summaries of the data as it arrives, and to use these summaries to interpolate the real data. This work introduces a recently defined spatio-temporal pattern, called trend cluster, to summarize, interpolate and identify anomalies in a sensor network. As an example, the application of trend cluster discovery to monitor the efficiency of photovoltaic power plants is discussed. The work closes with remarks on new possibilities for surveillance enabled by recent developments in sensing technology.

Sterile Insect Technique Springer

The Handbook of Intellectual Disability and Clinical Psychology Practice will equip clinical psychologists in training with the skills necessary to complete a clinical placement in the field of intellectual disability. Building on the success of the previous edition this handbook has been extensively revised. Throughout, the text, references, and website addresses and have been updated to reflect important developments since the publication of the first edition. Recent research findings on the epidemiology, aetiology, course, outcome, assessment and treatment of all psychological problems considered in the book have been incorporated into the text. Account has been taken of changes in the diagnosis and classification of intellectual disability and psychological problems reflected in the AAIDD-11 and the DSM-5. New chapters on the assessment of adaptive behaviour and support needs, person-centred active support, and the assessment of dementia in people with intellectual disability have been added. The book is divided into eight sections: Section 1: Covers general conceptual frameworks for practice - diagnosis, classification, epidemiology and lifespan development. Section 2: Focuses on assessment of intelligence, adaptive behaviour, support needs, quality of life, and the processes of interviewing and report writing. Section 3: Covers intervention frameworks, specifically active support, applied behavioural analysis and cognitive behavioural therapy. Section 4: Deals with supporting families of children with intellectual disability, genetic syndromes and autism spectrum disorders. Section 5: Covers issues associated with intellectual disability first evident or prevalent in middle childhood. Section 6: Deals with adolescent concerns including life skills training, relationships and sexuality. Section 7: Focuses on residential, vocational and family-related challenges of adulthood and aging. Section 8: Deals with professional issues and risk assessment. Chapters cover theoretical and empirical issues on the one hand and practice issues on the other. They close with summaries and suggestions for further reading for practitioners and families containing a member with an intellectual disability. Where appropriate, in many chapters, practice exercises to aid skills development have been included. The second edition of the Handbook of Intellectual Disability and Clinical Psychology Practice is one of a set of three volumes which cover the lion's share of the curriculum for clinical psychologists in training in the UK and Ireland. The other two volumes are the Handbook of Child and Adolescent Clinical Psychology, Third Edition (by Alan Carr) and the Handbook of Adult Clinical Psychology Practice, Second Edition (edited by Alan Carr & Muireann McNulty).

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