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Dynamics of Immune Activation in Viral Diseases **Taxonomy, Genomics and Ecophysiology of Hydrocarbon-Degrading Microbes Mycobacterium Tuberculosis: Molecular Infection Biology, Pathogenesis, Diagnostics and New Interventions Principles of Naval Engineering** AASHTO Guide for Design of Pavement Structures, 1993 *Advanced Intelligent Systems for Sustainable Development (AI2SD'2018)* **Fundamentals of Algebraic Graph Transformation Bioinspired Optimization Methods and Their Applications Genetics and Analysis of Quantitative Traits** Synthetic Biology Programming the 68000 *Parking Policy in Asian Cities* Indian Moneylenders at Work *Asphalt-aggregate Mixture Analysis System, AAMAS* **American Machinist Fungal Immunology: Cardiopulmonary Critical Care Handbook for the Chemical Analysis of Plastic and Polymer Additives, Second Edition Music Genres and Corporate Cultures** *Protozoa ...* **Intelligent Computing Theories and Application** Unique 3-in-1 Research & Development Directory *Engineering Applications of Neural Networks* **Industrial Biocatalysis** Principles of Heart Valve Engineering *Predatory Prokaryotes Major Research in Upland Rice* **The Biology and Management of Mountain Ungulates** The Book of the Bush **Fluid Flow for Chemical Engineers Atomic and Plasma-material Interaction Data for Fusion Design of Experiments for Engineers and Scientists** Nurse Prescribing *Phenolic Resins: A Century of Progress* Instance-Specific Algorithm Configuration *Analytical Chemistry of PCBs* Arduino by Example **Microbial Communities Utilizing Hydrocarbons and Lipids: Members, Metagenomics and Ecophysiology Printmaking 1 Methods for the Diagnosis of Bacterial Diseases ofPlants**

The Biology and Management of Mountain Ungulates Jul 06 2020
Principles of Naval Engineering Jul 30 2022
Genetics and Analysis of Quantitative Traits Feb 22 2022 Professors Lynch and Walsh bring together the diverse array of theoretical and empirical applications of quantitative genetics in a work that is comprehensive and accessible to anyone with a rudimentary understanding of statistics and genetics.
Unique 3-in-1 Research & Development Directory Jan 12 2021
Instance-Specific Algorithm Configuration Nov 29 2019 This book presents a modular and expandable technique in the rapidly emerging research area of automatic configuration and selection of the best algorithm for the instance at hand. The author presents the basic model behind ISAC and then details a number of modifications and practical applications. In particular, he addresses automated feature generation, offline algorithm configuration for portfolio generation, algorithm selection, adaptive solvers, online tuning, and parallelization. The author's related thesis was honorably mentioned (runner-up) for the ACP Dissertation Award in 2014, and this book includes some expanded sections and notes on recent developments. Additionally, the techniques described in this book have been successfully applied to a number of solvers competing in the SAT and MaxSAT International Competitions, winning a total of 18 gold medals between 2011 and 2014. The book will be of interest to researchers and practitioners in artificial intelligence, in particular in the area of machine learning and constraint programming.
Arduino by Example Sep 27 2019 Design and build fantastic projects and devices using the Arduino platform About This Book Explore the different sensors that can be used to improve the functionality of the Arduino projects Program networking modules in conjunction with Arduino to make smarter and more communicable devices A practical guide that shows you how to utilize Arduino to create practical, useful projects Who This Book Is For This book is an ideal choice for hobbyists or professionals who want to create quick and easy projects with Arduino. As a prerequisite, readers must have a working Arduino system and some programming background, ideally in C/C++. Basic knowledge of Arduino is helpful

but not required to follow along with this book. What You Will Learn Understand and utilize the capabilities of the Arduino Integrate sensors to gather environmental data and display this information in meaningful ways Add modules such as Bluetooth and Wi-Fi that allow the Arduino to communicate and send data between devices Create simple servers to allow communication to occur Build automated projects including robots while learning complex algorithms to mimic biological locomotion Implement error handling to make programs easier to debug and look more professional Integrate powerful programming tools and software such as Python and Processing to broaden the scope of what the Arduino can achieve Practice and learn basic programming etiquette In Detail Arduino an opensource physical computing platform based on a simple microcontroller board, and a development environment for writing software for the board. The opensource Arduino software (IDE) makes it easy to write code and upload it to the board. It runs on Windows, Mac OS X, and Linux. The environment is written in Java and based on Processing and other opensource software. With the growing interest in home-made, weekend projects among students and hobbyists alike, Arduino offers an innovative and feasible platform to create projects that promote creativity and technological tinkering. Arduino by Example is a project-oriented guide to help you fully utilize the power of one of the world's most powerful open source platforms, Arduino. This book demonstrates three projects ranging from a home automation project involving your lighting system to a simple robotic project to a touch sensor project. You will first learn the basic concepts such as how to get started with the Arduino, and as you start building the project, you will develop the practical skills needed to successfully build Arduino powered projects that have real-life implications. The complexity of the book slowly increases as you complete a project and move on to the next. By the end of this book, you will be able to create basic projects and utilize the elements used in the examples to construct your own devices. Style and approach This book follows a project-oriented approach, with multiple images and plenty of code to help you build your projects easily. The book uses a tutorial-based methodology where the concepts are first explained and then implemented to help you develop the projects.
Synthetic Biology Jan 24 2022 The book uses an

integrated approach to predict the behavior of various biological interactions. It further discusses how synthetic biology gathers the information about various systems, in order to either devise an entirely new system, or, to modulate existing systems. The book also tackles the concept of modularity, where biological systems are visualized in terms of their parts. The chapters discuss how the principles of engineering are being used in biomedical sciences, to design biological circuits that can harbor multiple inputs and generate multiple outputs; to create genetic networks and control gene activity, in order to generate a desired response. The book aims to help the readers develop an array of biological parts, and to use these parts to develop synthetic circuits that can be assembled like electronic circuits. The ultimate aim of the book will be to serve as an amalgamation of key ideas of how judiciously synthetic biology could be exploited in therapeutic device and delivery mechanism.
Nurse Prescribing Jan 30 2020 9 chapters examining in detail each of the groups of products described in the Nurse Prescribing Formulary (NPF).
Mycobacterium Tuberculosis: Molecular Infection Biology, Pathogenesis, Diagnostics and New Interventions Aug 31 2022 This book reviews recent advances in the molecular and infection biology, pathology, and molecular epidemiology of Mycobacterium tuberculosis, as well as the identification and validation of novel molecular drug targets for the treatment of this mycobacterial disease. Despite being completely curable, tuberculosis is still one of the leading global causes of death. M. tuberculosis, the causative organism – one of the smartest pathogens known – adopts highly intelligent strategies for survival and pathogenesis. Presenting a wealth of information on the molecular infection biology of M. tuberculosis, as well as nontuberculous mycobacteria (NTM), the book provides an overview of the functional role of the PE/PPE group of proteins, which is exclusive to the genus Mycobacteria, of host-pathogen interactions, and virulence. It also explores the pathogenesis of the infection, pathology, epidemiology, and diagnosis of NTM. Finally it discusses current and novel approaches in vaccine development against tuberculosis, including the role of nanotechnology. With state-of-the-art contributions from experts in the respective domains, this book is an

informative resource for practitioners as well as medical postgraduate students and researchers.

Fungal Immunology: Jul 18 2021 A comprehensive review of all known immune mechanisms for medically important fungal pathogens from the organ perspectives of the human body. This authoritative guide is organized by organ system, as one particular fungus can have several different effects.

Asphalt-aggregate Mixture Analysis System, AAMAS Sep 19 2021

Phenolic Resins: A Century of Progress Dec 31 2019 The legacy of Leo Hendrik Baekeland and his development of phenol formal- hyde resins are recognized as the cornerstone of the Plastics Industry in the early twentieth century, and phenolic resins continue to ?ourish after a century of robust growth. On July 13, 1907, Baekeland ?led his "heat and pressure" patent related to the processing of phenol formaldehyde resins and identi?ed their unique utility in a plethora of applications. The year 2010 marks the Centennial Year of the prod-tion of phenolic resins by Leo Baekeland. In 1910, Baekeland formed Bakelite GmbH and launched the manufacture of phenolic resins in Erkner in May 1910. In October 1910, General Bakelite began producing resins in Perth Amboy, New Jersey. Lastly, Baekeland collaborated with Dr. Takamine to manufacture phenolic resins in Japan in 1911. These events were instrumental in establishing the Plastics Industry and in tracing the identity to the brilliance of Dr. Leo Baekeland. Phenolic resins remain as a versatile resin system featuring either a stable, thermoplastic novolak composition that cures with a latent source of formaldehyde (hexa) or a heat reactive and perishable resole composition that cures thermally or under acidic or special basic conditions. Phenolic resins are a very large volume resin system with a worldwide volume in excess of 5 million tons/year, and its growth is related to the gross national product (GNP) growth rate globally.

Fluid Flow for Chemical Engineers May 04 2020 For undergraduates.

The Book of the Bush Jun 04 2020 "The Book of the Bush" by George Dunderdale. Published by Good Press. Good Press publishes a wide range of titles that encompasses every genre. From well-known classics & literary fiction and non-fiction to forgotten−or yet undiscovered gems−of world literature, we issue the books that need to be read. Each Good Press edition has been meticulously edited and formatted to boost readability for all e-readers and devices. Our goal is to produce eBooks that are user-friendly and accessible to everyone in a high-quality digital format.

Engineering Applications of Neural Networks Dec 11 2020 The two volumes set, CCIS 383 and 384, constitutes the refereed proceedings of the 14th International Conference on Engineering Applications of Neural Networks, EANN 2013, held on Halkidiki, Greece, in September 2013. The 91 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers describe the applications of artificial neural networks and other soft computing approaches to various fields such as pattern recognition-predictors, soft computing applications, medical applications of AI, fuzzy inference, evolutionary algorithms, classification, learning and data mining, control techniques-aspects of AI evolution, image and video analysis, classification, pattern recognition, social media and community based governance, medical applications of AI-bioinformatics and learning.

Handbook for the Chemical Analysis of Plastic and Polymer Additives, Second Edition May 16 2021 Polymers have undoubtedly changed the world through many products that improve our lives. However, additives used to modify the overall characteristics of these materials may not be fully disclosed or understood. These additives may present possible environmental and health hazards. It is important to monitor consumer products for these compounds using high-quality reference materials and dependable analytical techniques. The Handbook for the Chemical Analysis of Plastic and Polymer Additives, Second Edition provides the necessary tools for chemists to obtain a more complete listing of additives present in a particular polymeric matrix. It is designed to serve as a valuable source for those monitoring a polymer/plastic material for regulatory or internal compliance. It also helps analysts to correctly identify the complex nature of the materials that have been added to the polymer/plastic. With 50 additional compounds, this second edition nearly doubles the number of additives in several categories, including processing aids, antistatic compounds, mould release products, and blowing agents. It includes a listing that can be cross-referenced by trade name, chemical name, CAS number, and even key mass unit ions from the GC/MS run. Addressing additives from an analytical viewpoint, this comprehensive handbook helps readers identify the additives in plastics. This information can be used to assess compliance with regulations issued by the FDA, US EPA, EU, and other agencies.

Major Research in Upland Rice Aug 07 2020 Upland rice around the world. Climate of upland rice regions. Soils on which upland rice is grown. Growth-limiting factors of aerobic soils. Factors that limit the growth and yields of upland rice. Varietal diversity and morpho-agronomic characteristics of upland rice. Agronomic traits needed in upland rice varieties. Drought tolerance in upland rice. Control of upland rice insects though varietal resistance. Diseases of upland rice and their control though varietal resistance. Varietal resistance to adverse chemical environments of upland rice soils. Breeding methods for upland rice. Cultural practices for upland rice. Studies on insect pests of upland rice. Pesticide residue in upland rice soil. Mineral microbial transformations in upland rice soil.Future emphasis on upland rice.

Atomic and Plasma-material Interaction Data for Fusion Apr 02 2020

Predatory Prokaryotes Sep 07 2020 Predatory Prokaryotes examines the ecology of predation at the microbial level. It aims to increase the awareness of the great possibilities that predation between microbes offer for studying and discussing basic ecological and general biological concepts.

Protozoa ... Mar 14 2021

Taxonomy, Genomics and Ecophysiology of Hydrocarbon-Degrading Microbes Oct 01 2022 This book provides comprehensive, authoritative descriptions of the microbes involved in cleaning up oil spills and degrading climate-altering hydrocarbons such as methane, and has detailed discussions about the taxonomy, ecology, genomics, physiology and global significance of these hydrocarbon-degrading microbes.

Dynamics of Immune Activation in Viral Diseases Nov 02 2022 This book discusses various components of the innate and adaptive immune response in combating viral infections, presenting the recent advances in our understanding of innate immunity recognition of viruses and highlighting the important role of inflammation, cytokines such as interferon, toll-like receptors and leukocytes in the initial detection of invading viruses and subsequent activation of adaptive immunity. It also summarizes the role of the adaptive immunity against viral infections through clearance of virus and establishment of memory response that protects against the recurrent infections. In addition, the book examines the role of DNA and RNA sensors in viral recognition and in controlling viral infection. Lastly, it reviews the latest developments in the development of the rational viral vaccines. As such it is a useful resource book for postgraduate and early researchers wanting to gain insights into the immune response to viral infections.

Music Genres and Corporate Cultures Apr 14 2021 Music Genres and Corporate Cultures explores the seemingly haphazard workings of the music industry, tracing the uneasy relationship between economics and culture; `entertainment corporations' and the artists they sign. Keith Negus examines the contrasting strategies of major labels like Sony and Polygram in managing different genres, artists and staff. How do takeovers affect the treatment of artists? Why has Polygram been perceived as too European to attract US artists? And how did Warner's wooden floors help them sign Green Day? Through in-depth case studies of three major genres; rap, country, and salsa, Negus explores the way in which the music industry recognises and rewards certain sounds, and how this influences both the creativity of musicians, and their audiences. He examines the tension between raps public image as the spontaneous `music of the streets' and the practicalities of the market, and asks why country labels and radio stations promote top-selling acts like Garth Brooks over hard-to-classify artists like Mary Chapin-Carpenter, and how the lack of soundscan systems in Puerto Rican record shops affects salsa music's position on the US Billboard chart. Drawing on over seventy interviews with music industry personnel in Britain and the United States, Music Genres and Corporate Cultures shows how the creation, circulation and consumption of popular music is shaped by record companies and corporate business styles while stressing that music production takes within a broader culture, not totally within the control of large corporations.

Programming the 68000 Dec 23 2021

Analytical Chemistry of PCBs Oct 28 2019 This updated and expanded Second Edition of Dr. Erickson's Analytical Chemistry of PCBs appears a decade after the first and is completely revised and updated. The changes from the First Edition reflect the significant

growth in the area and a growing appreciation of the importance of PCB analysis to our culture. This book is a comprehensive review of the analytical chemistry of PCBs. It is part history, part annotated bibliography, part comparison, and part guidance. Featuring a new chapter on analyst/customer interactions and several new appendices, the Second Edition is an invaluable resource for both chemists with no experience in PCB analysis and seasoned PCB researchers. All topics have been more thoroughly treated and updated in this new edition to reflect advances made in the last decade, especially:

AASHTO Guide for Design of Pavement Structures, 1993 Jun 28 2022 Design related project level pavement management - Economic evaluation of alternative pavement design strategies - Reliability / - Pavement design procedures for new construction or reconstruction : Design requirements - Highway pavement structural design - Low-volume road design / - Pavement design procedures for rehabilitation of existing pavements : Rehabilitation concepts - Guides for field data collection - Rehabilitation methods other than overlay - Rehabilitation methods with overlays / - Mechanistic-empirical design procedures.

Fundamentals of Algebraic Graph Transformation Apr 26 2022 This is the first textbook treatment of the algebraic approach to graph transformation, based on algebraic structures and category theory. It contains an introduction to classical graphs. Basic and advanced results are first shown for an abstract form of replacement systems and are then instantiated to several forms of graph and Petri net transformation systems. The book develops typed attributed graph transformation and contains a practical case study.

Methods for the Diagnosis of Bacterial Diseases ofPlants Jun 24 2019 This book gives a comprehensive description of methods for the diagnosis of bacterial diseases of plants, especially those of economic importance throughout the world, and the identification of the bacteria that cause them. The methods are those used by the Agricultural Development and Advisory Service of MAFF and by the National Collection of Plant Pathogenic Bacteria, and have been successfully proved over many years. The authors include descriptions of diseases of the causal bacteria, indicating key diagnostic and identification features known to be of value for accurate diagnosis. The methods are intended for use by microbiologists and plant pathologists anywhere in the world

American Machinist Aug 19 2021
Parking Policy in Asian Cities Nov 21 2021 Most Asian cities are facing an acute parking crisis as a result of rapid urbanization and motorization, and high urban densities. Parking policy is an important component of a holistic approach to sustainable urban transport across the region. The report provides an international comparative perspective on parking policy in Asian cities, while highlighting the nature of the policy choices available. It is a step in building a knowledge base to address the knowledge gap on parking and the lack of adequate guidance for parking policy in Asia.
Design of Experiments for Engineers and Scientists Mar 02 2020 The tools and

techniques used in Design of Experiments (DoE) have been proven successful in meeting the challenge of continuous improvement in many manufacturing organisations over the last two decades. However research has shown that application of this powerful technique in many companies is limited due to a lack of statistical knowledge required for its effective implementation. Although many books have been written on this subject, they are mainly by statisticians, for statisticians and not appropriate for engineers. Design of Experiments for Engineers and Scientists overcomes the problem of statistics by taking a unique approach using graphical tools. The same outcomes and conclusions are reached as through using statistical methods and readers will find the concepts in this book both familiar and easy to understand. This new edition includes a chapter on the role of DoE within Six Sigma methodology and also shows through the use of simple case studies its importance in the service industry. It is essential reading for engineers and scientists from all disciplines tackling all kinds of manufacturing, product and process quality problems and will be an ideal resource for students of this topic. Written in non-statistical language, the book is an essential and accessible text for scientists and engineers who want to learn how to use DoE Explains why teaching DoE techniques in the improvement phase of Six Sigma is an important part of problem solving methodology New edition includes a full chapter on DoE for services as well as case studies illustrating its wider application in the service industry
Printmaking 1 Jul 26 2019
Bioinspired Optimization Methods and Their Applications Mar 26 2022 This book constitutes the refereed proceedings of the 9th International Conference on Bioinspired Optimization Methods and Their Applications, BIOMA 2020, held in Brussels, Belgium, in November 2020. The 24 full papers presented in this book were carefully reviewed and selected from 68 submissions. The papers in this BIOMA proceedings specialized in bioinspired algorithms as a means for solving the optimization problems and came in two categories: theoretical studies and methodology advancements on the one hand, and algorithm adjustments and their applications on the other. Due to the Corona pandemic BIOMA 2020 was held as a virtual event.
Indian Moneylenders at Work Oct 21 2021 This Book Based On A Detailed Study Of Selected Villages In Dhanbad District In Bihar Enquires Into Traditional Moneylenders And The Debt Relations Between Them And The Debtor-Farmers. The Debt Relations May Be Either Pure Loan Obligations Or Even Personal Dependency Relationships As Well As A Combination Of Both Forms.
Intelligent Computing Theories and Application Feb 10 2021 This two-volume set LNCS 10954 and LNCS 10955 constitutes - in conjunction with the volume LNAI 10956 - the refereed proceedings of the 14th International Conference on Intelligent Computing, ICIC 2018, held in Wuhan, China, in August 2018. The 275 full papers and 72 short papers of the three proceedings volumes were carefully reviewed and selected from 632 submissions. The papers are organized in topical sections such as Neural Networks.- Pattern

Recognition.- Image Processing.- Intelligent Computing in Robotics.- Intelligent Control and Automation.- Intelligent Data Analysis and Prediction.- Fuzzy Theory and Algorithms.- Supervised Learning.- Unsupervised Learning.- Kernel Methods and Supporting Vector Machines.- Knowledge Discovery and Data Mining.- Natural Language Processing and Computational Linguistics.- Gene Expression Array Analysis.- Systems Biology.- Computational Genomics.- Computational Proteomics.- Gene Regulation Modeling and Analysis.- Protein-Protein Interaction Prediction.- Next-Gen Sequencing and Metagenomics.- Structure Prediction and Folding.- Evolutionary Optimization for Scheduling.- High-Throughput Biomedical Data Integration and Mining.- Machine Learning Algorithms and Applications.- Heuristic Optimization Algorithms for Real-World Applications.- Evolutionary Multi-Objective Optimization and Its Applications.- Swarm Evolutionary Algorithms for Scheduling and Combinatorial.- Optimization.- Swarm Intelligence and Applications in Combinatorial Optimization.- Advances in Metaheuristic Optimization Algorithm.- Advances in Image Processing and Pattern Recognition Techniques.- AI in Biomedicine.- Bioinformatics.- Biometrics Recognition.- Information Security.- Virtual Reality and Human-Computer Interaction.- Healthcare Informatics Theory and Methods.- Intelligent Computing in Computer Vision.- Intelligent Agent and Web Applications.- Reinforcement Learning.- Machine Learning.- Modeling, Simulation, and Optimization of Biological Systems.- Biomedical Data Modeling and Mining.- Cheminformatics.- Intelligent Computing in Computational Biology.- Protein Structure and Function Prediction.- Biomarker Discovery.- Hybrid Computational Intelligence: Theory and Application in Bioinformatics, Computational Biology and Systems Biology.- IoT and Smart Data.- Intelligent Systems and Applications for Bioengineering.- Evolutionary Optimization: Foundations and Its Applications to Intelligent Data Analytics.- Protein and Gene Bioinformatics: Analysis, Algorithms and Applications.

Principles of Heart Valve Engineering Oct 09 2020 Principles of Heart Valve Engineering is the first comprehensive resource for heart valve engineering that covers a wide range of topics, including biology, epidemiology, imaging and cardiovascular medicine. It focuses on valves, therapies, and how to develop safer and more durable artificial valves. The book is suitable for an interdisciplinary audience, with contributions from bioengineers and cardiologists that includes coverage of valvular and potential future developments. This book provides an opportunity for bioengineers to study all topics relating to heart valve engineering in a single book as written by subject matter experts. Covers the depth and breadth of this interdisciplinary area of research Encompasses a wide range of topics, from basic science, to the translational applications of heart valve engineering Contains contributions from leading experts in the field that are heavily illustrated
Industrial Biocatalysis Nov 09 2020 Biocatalysis has become an essential tool in the

chemical industry and is the core of industrial biotechnology, also known as white biotechnology, making use of biocatalysts in terms of enzymes or whole cells in chemical processes as an alternative to chemical catalysts. This shift can be seen in the many areas of daily life where biocatalysts—with their environmentally friendly properties—are currently employed. Drivers are the big societal challenges resulting from concerns about the global climate change and the need for an assured energy supply. Modern biocatalysis relies to a large extent on the tremendous advances in the so-called omics techniques and the structural elucidation of biomolecules, which have led to synthetic biology and metabolic engineering as new research fields with high application potential for the rational design of enzymes and microbial production strains. In this book, renowned scientists discuss the actual developments in these research fields together with a variety of application-oriented topics.

Cardiopulmonary Critical Care Jun 16 2021 Provides current insights into critical abnormalities of the heart and lungs. The 3rd Edition includes chapters on microcirculation, regional distribution of blood flow, methods of increasing oxygen delivery, septic shock, environmental lung injury, and the effects of high pressure environments. Much more focused toward the critical care aspects of cardiopulmonary disorders. Emphasizes the

growing knowledge of the chemical basis for tissue injury and the role that inflammatory mediators play in cardiocirculatory failure in chapters on asthma, sepsis, respiratory distress, and septic shock. Provides brand-new chapters on the effects of injury in unusual situations such as diving and high altitude. Discusses modern concepts in the treatment of myocardial infarction, arrhythmias, adult respiratory distress syndrome, sepsis, pneumonia, and much more. Reviews the effects of various ventilatory modes on pulmonary and circulatory function. FEATURES: Divides content into three sections: the pathophysiologic basis of cardiorespiratory failure, general principles of treating patients with cardiac, circulatory, and respiratory failure, and the clinical care of specific cardiac, circulatory, and respiratory diseases encountered in critical care. Discusses current topics of importance, including the role of cytokines in acute pulmonary injury, the biochemical basis of myocardial function, the control of cardiac output in normal and abnormal situations, oxygen transport and utilization, pulmonary mechanics in critical care, intensive care radiology, invasive and noninvasive treatment of acute and chronic respiratory failure, and more.
Advanced Intelligent Systems for Sustainable Development (AI2SD'2018) May 28 2022 This book includes the outcomes of the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD-2018),

held in Tangier, Morocco on July 12–14, 2018. Presenting the latest research in the field of computing sciences and information technology, it discusses new challenges and provides valuable insights into the field, the goal being to stimulate debate, and to promote closer interaction and interdisciplinary collaboration between researchers and practitioners. Though chiefly intended for researchers and practitioners in advanced information technology management and networking, the book will also be of interest to those engaged in emerging fields such as data science and analytics, big data, internet of things, smart networked systems, artificial intelligence, expert systems and cloud computing.

Microbial Communities Utilizing Hydrocarbons and Lipids: Members, Metagenomics and Ecophysiology Aug 26 2019 This book provides comprehensive, authoritative discussions about microbial communities in environments that are rich in hydrocarbons, crude oil or lipids. It encompasses natural environments, such as tar sands, oil seeps and reservoirs, as well as habitats where methane is produced. Equally, the book deals with habitats that have been influenced by human activity, including oil-contaminated soils, aquifers, coast and seas. The book opens with a series of chapters considering the contemporary approaches used to investigate microbial communities.