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Corporate Social DisclosureBig Data Management and ProcessingBiomedical Natural Language ProcessingEpigenetic Mechanisms in CancerHandbook of Vascular BiometricsArtificial Neural Networks as Models of Neural Information ProcessingPoverty Alleviation Through MicrofinanceInvesting in OurselvesAdvanced Intelligent Systems for Sustainable Development (AI2SD'2019)Model and Data EngineeringHuman Resources Development in BanksTransforming Learning with Meaningful TechnologiesTools and Algorithms for the Construction and Analysis of SystemsComputer Aided Intervention and Diagnostics in Clinical and Medical ImagesNanoelectronics, Circuits and Communication SystemsConstructing Ambient IntelligenceSoftware Engineering and Algorithms in Intelligent SystemsWord Power Made EasyHigh Performance ComputingSimulation of Fresh Concrete FlowHistorical Dictionary of International IntelligencePWN the SAT: Math GuideProcess Modeling and Management for HealthcareStructural Design of Interlocking Concrete Pavement for Municipal Streets and RoadwaysBig Data and Computational Intelligence in NetworkingArtificial Intelligence: Methodology, Systems, and ApplicationsHow AI Impacts Urban Living and Public HealthPorous PavementsInnovation in Medicine and Healthcare Systems, and MultimediaInformation and Communication Technology for Intelligent SystemsM.B.A. Admission TestsAdvanced Informatics for Computing

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ResearchDesign, Production and Placement of Self-Consolidating ConcreteMixture Modelling for Medical and Health SciencesMachine LearningBlockchain in HealthcareArtificial Intelligence and Natural LanguageThe EngineerAdvances in Knowledge Discovery and Data MiningStatistics for Bioengineering Sciences

Corporate Social Disclosure

With respect to banks in India; contributed articles.

Big Data Management and Processing

This book is a compendium of the ICCMIA 2018 proceedings, which provides an ideal reference for all medical imaging researchers and professionals to explore innovative methods and analyses on imaging technologies for better prospective patient care. This work serves as an exclusive source for new computer assisted clinical and medical developments in imaging diagnosis, intervention and analysis. It includes articles on computer assisted medical scanning techniques, computer-aided diagnosis, robotic surgery and imaging, imaging genomics, clinically-oriented imaging physics and informatics, augmented-reality medical visualization, imaging modalities, computerized radiology, oncology, and surgery. Moreover, information on non-medical imaging that has medical applications such as multi-photon microscopy and confocal, photoacoustic imaging, optical microendoscope, infra-red radiation, and other

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imaging modalities is also represented.

Biomedical Natural Language Processing

From the Foreword: "Big Data Management and Processing is [a] state-of-the-art book that deals with a wide range of topical themes in the field of Big Data. The book, which probes many issues related to this exciting and rapidly growing field, covers processing, management, analytics, and applications [It] is a very valuable addition to the literature. It will serve as a source of up-to-date research in this continuously developing area. The book also provides an opportunity for researchers to explore the use of advanced computing technologies and their impact on enhancing our capabilities to conduct more sophisticated studies." ---Sartaj Sahni, University of Florida, USA "Big Data Management and Processing covers the latest Big Data research results in processing, analytics, management and applications. Both fundamental insights and representative applications are provided. This book is a timely and valuable resource for students, researchers and seasoned practitioners in Big Data fields. --Hai Jin, Huazhong University of Science and Technology, China Big Data Management and Processing explores a range of big data related issues and their impact on the design of new computing systems. The twenty-one chapters were carefully selected and feature contributions from several outstanding researchers. The book endeavors to strike a balance between theoretical and practical coverage of innovative problem solving techniques for a range of platforms.

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It serves as a repository of paradigms, technologies, and applications that target different facets of big data computing systems. The first part of the book explores energy and resource management issues, as well as legal compliance and quality management for Big Data. It covers In-Memory computing and In-Memory data grids, as well as co-scheduling for high performance computing applications. The second part of the book includes comprehensive coverage of Hadoop and Spark, along with security, privacy, and trust challenges and solutions. The latter part of the book covers mining and clustering in Big Data, and includes applications in genomics, hospital big data processing, and vehicular cloud computing. The book also analyzes funding for Big Data projects.

Epigenetic Mechanisms in Cancer

Through its scope and depth of coverage, this book addresses the needs of the vibrant and rapidly growing engineering fields, bioengineering and biomedical engineering, while implementing software that engineers are familiar with. The author integrates introductory statistics for engineers and introductory biostatistics as a single textbook heavily oriented to computation and hands on approaches. For example, topics ranging from the aspects of disease and device testing, Sensitivity, Specificity and ROC curves, Epidemiological Risk Theory, Survival Analysis, or Logistic and Poisson Regressions are covered. In addition to the synergy of engineering and biostatistical approaches, the novelty of this book is in the substantial coverage of Bayesian approaches to

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statistical inference. Many examples in this text are solved using both the traditional and Bayesian methods, and the results are compared and commented.

Handbook of Vascular Biometrics

This book contains the proceedings of the KES International conferences on Innovation in Medicine and Healthcare (KES-InMed-19) and Intelligent Interactive Multimedia Systems and Services (KES-IIMSS-19), held on 17–19 June 2019 and co-located in St. Julians, on the island of Malta, as part of the KES Smart Digital Futures 2019 multi-theme conference. The major areas covered by KES-InMed-19 include: Digital IT Architecture in Healthcare; Advanced ICT for Medical and Healthcare; Biomedical Engineering, Trends, Research and Technologies and Healthcare Support System. The major areas covered by KES-IIMSS-19 were: Interactive Technologies; Artificial Intelligence and Data Analytics; Intelligent Services and Architectures and Applications. This book is of use to researchers in these vibrant areas, managers, industrialists and anyone wishing to gain an overview of the latest research in these fields.

Artificial Neural Networks as Models of Neural Information Processing

Intelligence is now acknowledged as the hidden dimension to international diplomacy and national security. It is the hidden piece of the jigsaw puzzle of global relations that cements relationships,

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undermines alliances and topples tyrants, and after many decades of being deliberately overlooked or avoided, it is now regarded as a subject of legitimate study by academics and historians. This second edition of Historical Dictionary of International Intelligence covers its history through a chronology, an introductory essay, and an extensive bibliography. The dictionary section has over 500 cross-referenced entries on espionage techniques, categories of agents, crucial operations spies, defectors, moles, double and triple agents, and the tradecraft they apply. This book is an excellent access point for students, researchers, and anyone wanting to know more about the international intelligence.

Poverty Alleviation Through Microfinance

This book constitutes the refereed proceedings of the 18th International Conference on Artificial Intelligence: Methodology, Systems, and Applications, AIMSA 2018, held in Varna, Bulgaria, in September 2018. The 22 revised full papers and 7 poster papers presented were carefully reviewed and selected from 72 submissions. They cover a wide range of topics in AI: from machine learning to natural language systems, from information extraction to text mining, from knowledge representation to soft computing; from theoretical issues to real-world applications.

Investing in Ourselves

Biomedical Natural Language Processing is a comprehensive tour through the classic and current

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work in the field. It discusses all subjects from both a rule-based and a machine learning approach, and also describes each subject from the perspective of both biological science and clinical medicine. The intended audience is readers who already have a background in natural language processing, but a clear introduction makes it accessible to readers from the fields of bioinformatics and computational biology, as well. The book is suitable as a reference, as well as a text for advanced courses in biomedical natural language processing and text mining.

Advanced Intelligent Systems for Sustainable Development (AI2SD'2019)

"A CRC title, part of the Taylor & Francis imprint, a member of the Taylor & Francis Group, the academic division of T&F Informa plc."

Model and Data Engineering

This book constitutes the refereed proceedings of the 6th Latin American High Performance Computing Conference, CARLA 2019, held in Turrialba, Costa Rica, in September 2019. The 32 revised full papers presented were carefully reviewed and selected out of 62 submissions. The papers included in this book are organized according to the conference tracks - regular track on high performance computing: applications; algorithms and models; architectures and infrastructures; and special track on bioinspired processing (BIP): neural and evolutionary approaches; image and signal processing; biodiversity informatics

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and computational biology.

Human Resources Development in Banks

Dear Colleagues, We are pleased to organize the Sixth International RILEM Symposium on SCC and the Fourth North-American Conference on the Design and Use of SCC, held on Sept 26-29, 2010 in Montreal, Quebec, Canada. The RILEM series of symposia started in 1999 in Stockholm, followed by Tokyo in 2001, Reykjavik in 2003, Chicago in 2005, and Ghent in 2007 with a steadily increasing number of papers, participants, and interest from across the globe. Due to the growing success of SCC, regional conferences have been organized, such as the North-American Conference on the Design and Use of SCC held in Chicago in 2002, 2005, and 2008; the International Symposium on Design, Performance and Use of SCC held in Changsa, China in 2005 and in Beijing, China in 2009; as well as the 2 International Conference on Advances in Concrete Technology in the Middle East: SCC held in Abu Dhabi in 2009. It can be concluded that these regional Conferences and Symposia were highly successful and reached a far more international audience than anticipated. Nearly 100 papers were submitted for these proceedings from which the International Scientific Committee selected 37 contributions covering a wide range of timely and original subjects from around the world. We would like to acknowledge the input of the International Scientific Committee for providing critical input to guarantee high quality of these peer-reviewed proceedings. We invite you to explore a

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wealth of information in the electronic proceedings.

Transforming Learning with Meaningful Technologies

Tools and Algorithms for the Construction and Analysis of Systems

Offering a step-by-step method to increase the reader's knowledge of the English language, this book provides a carefully structured series of chapters which deal with different language areas, and builds confidence in the use of English with numerous tests in each section. It will encourage the reader to speak and write with confidence, read more effectively and efficiently and to pronounce and spell correctly.

Computer Aided Intervention and Diagnostics in Clinical and Medical Images

Nanoelectronics, Circuits and Communication Systems

Traditional books on machine learning can be divided into two groups- those aimed at advanced undergraduates or early postgraduates with reasonable mathematical knowledge and those that are primers on how to code algorithms. The field is ready for a text that not only demonstrates how to

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use the algorithms that make up machine learning methods, but

Constructing Ambient Intelligence

This book constitutes the refereed proceedings of the 8th International Conference on Model and Data Engineering, MEDI 2018, held in Marrakesh, Morocco, in October 2018. The 23 full papers and 4 short papers presented together with 2 invited talks were carefully reviewed and selected from 86 submissions. The papers covered the recent and relevant topics in the areas of databases; ontology and model-driven engineering; data fusion, classification and learning; communication and information technologies; safety and security; algorithms and text processing; and specification, verification and validation.

Software Engineering and Algorithms in Intelligent Systems

This two-volume set, LNAI 9651 and 9652, constitutes the thoroughly refereed proceedings of the 20th Pacific-Asia Conference on Advances in Knowledge Discovery and Data Mining, PAKDD 2016, held in Auckland, New Zealand, in April 2016. The 91 full papers were carefully reviewed and selected from 307 submissions. They are organized in topical sections named: classification; machine learning; applications; novel methods and algorithms; opinion mining and sentiment analysis; clustering; feature extraction and pattern mining; graph and network data; spatiotemporal and image data; anomaly detection

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and clustering; novel models and algorithms; and text mining and recommender systems.

Word Power Made Easy

This book was created to help ambitious, highly motivated kids maximize their SAT math scores. Do you crave a higher score? Are you willing to do a little hard work to achieve it? Good. I knew I liked you. Read this book from beginning to end, with a pencil in hand and a calculator and Blue Book by your side. When you're done, you'll be able to approach the SAT with confidence—very few questions will surprise you, and even fewer will be able to withstand your withering attacks. Stand tall, intrepid student. Destiny awaits. Inside you'll find: Essential test-taking strategies Difference-making techniques The math you need to know Challenging diagnostic drills Solutions worked out by hand Question-by-question breakdowns of the tests in the Official SAT Study Guide Candy (not really)

High Performance Computing

This book highlights the latest research in the fields of health care and agriculture, presented at the second installment of the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD-2019), held on July 08-11, 2019 in Marrakech, Morocco. Gathering contributions by respected researchers in the field of agriculture, the book is intended to stimulate debate in this field, and proposes new solutions, tools and effective

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techniques concerning various current topics in the field of agriculture, such as ICT, IoT and big data analytics for agriculture, smart systems for plant productivity, and data analytics of socio-economic dimensions for sustainable agriculture and aquaculture. With regard to the field of health, the book addresses several areas of research, including E-health services in smart environments (smart homes, smart medical institutions, smart cities), E-health and big data analysis, IoT for health, network interoperability in E-health ecosystems, current and emerging web norms and communication technologies for E-health, heterogeneity of E-health environments and platforms (sensors and actuators, heterogeneous access technologies, security), human-computer interaction, RFID and localization techniques, E-health virtual communities, and business intelligence in health care. This book is intended for academic and professional researchers, decision-makers and all stakeholders in the fields of health and agriculture whose work involves the development and improvement of this field with modern I4.0 technologies and approaches. The authors of each chapter report on the state of the art and present the outcomes of their own research, laboratory experiments, and successful applications. The purpose of the book is to combine the idea of advanced intelligent systems with appropriate tools and techniques for modeling, management, and decision support in the fields of health and agriculture.

Simulation of Fresh Concrete Flow

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This book features selected papers presented at Third International Conference on Nanoelectronics, Circuits and Communication Systems (NCCS 2017). Covering topics such as MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, Internet of Things, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications in mines, it is a valuable resource for young scholars, researchers, and academics.

Historical Dictionary of International Intelligence

This two-volume set (CCIS 1075 and CCIS 1076) constitutes the refereed proceedings of the Third International Conference on Advanced Informatics for Computing Research, ICAICR 2019, held in Shimla, India, in June 2019. The 78 revised full papers presented were carefully reviewed and selected from 382 submissions. The papers are organized in topical sections on computing methodologies; hardware; information systems; networks; software and its engineering.

PWN the SAT: Math Guide

This open access two-volume set constitutes the proceedings of the 26th International Conference on

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Tools and Algorithms for the Construction and Analysis of Systems, TACAS 2020, which took place in Dublin, Ireland, in April 2020, and was held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2020. The total of 60 regular papers presented in these volumes was carefully reviewed and selected from 155 submissions. The papers are organized in topical sections as follows: Part I: Program verification; SAT and SMT; Timed and Dynamical Systems; Verifying Concurrent Systems; Probabilistic Systems; Model Checking and Reachability; and Timed and Probabilistic Systems. Part II: Bisimulation; Verification and Efficiency; Logic and Proof; Tools and Case Studies; Games and Automata; and SV-COMP 2020.

Process Modeling and Management for Healthcare

Mixture Modelling for Medical and Health Sciences provides a direct connection between theoretical developments in mixture modelling and their applications in real world problems. The book describes the development of the most important concepts through comprehensive analyses of real and practical examples taken from real-life research problems in

Structural Design of Interlocking Concrete Pavement for Municipal Streets and Roadways

Big Data and Computational Intelligence in Networking

This book presents new software engineering approaches and methods, discussing real-world problems and exploratory research that describes novel approaches, modern design techniques, hybrid algorithms and empirical methods. This book constitutes part of the refereed proceedings of the Software Engineering and Algorithms in Intelligent Systems Section of the 7th Computer Science On-line Conference 2018 (CSOC 2018), held in April 2018.

Artificial Intelligence: Methodology, Systems, and Applications

Corporate Social Disclosure focuses on China and Japan as two countries for critical observations of the latest CSD issues. This volume consists of 12 chapters written by scholars from these two countries, addressing the latest observation of CSD in general as well as in different industries based on their latest research findings.

How AI Impacts Urban Living and Public Health

From the Foreword: "[This book] provides a comprehensive overview of the fundamental concepts in healthcare process management as well as some advanced topics in the cutting-edge research of the closely related areas. This book is ideal for graduate students and practitioners who want to build the

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foundations and develop novel contributions in healthcare process modeling and management."

--Christopher Yang, Drexel University Process modeling and process management are traversal disciplines which have earned more and more relevance over the last two decades. Several research areas are involved within these disciplines, including database systems, database management, information systems, ERP, operations research, formal languages, and logic. Process Modeling and Management for Healthcare provides the reader with an in-depth analysis of what process modeling and process management techniques can do in healthcare, the major challenges faced, and those challenges remaining to be faced. The book features contributions from leading authors in the field. The book is structured into two parts. Part one covers fundamentals and basic concepts in healthcare. It explores the architecture of a process management environment, the flexibility of a process model, and the compliance of a process model. It also features a real application domain of patients suffering from age-related macular degeneration. Part two of the book includes advanced topics from the leading frontiers of scientific research on process management and healthcare. This section of the book covers software metrics to measure features of the process model as a software artifact. It includes process analysis to discover the formal properties of the process model prior to deploying it in real application domains. Abnormal situations and exceptions, as well as temporal clinical guidelines, are also presented in depth Pro.

Porous Pavements

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.

Innovation in Medicine and Healthcare Systems, and Multimedia

Standard ASCE/T&DI/ICPI 58-16 establishes guidelines for developing appropriate pavement structures for various traffic and subgrade conditions using interlocking concrete pavers.

Information and Communication Technology for Intelligent Systems

Pavements are the most ubiquitous of all man-made structures, and they have an enormous impact on environmental quality. They are responsible for hydrocarbon pollutants, excess runoff, groundwater

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decline and the resulting local water shortages, temperature increases in the urban "heat island," and for the ability of trees to extend their roots in order to live. Porous pavements, despite their ability to mitigate these factors, remain the object of much skepticism and controversy. Written by a renowned expert with 25 years of experience in urban watershed management, Porous Pavements is the first comprehensive "encyclopedia" of porous pavement materials. The book begins with five chapters that lay a foundation for all porous pavement materials and applications, introducing the types of materials and arrangements, their roles in the urban environment, and the principles of pavement structure, hydrology, and rooting space. The following nine chapters outline the costs, maintenance requirements, advantages and disadvantages for different applications, installation methods, sources of standard specifications, and performance levels for each family of porous pavement materials. Relying on case studies and factual data from observed experience, and containing abundant references for further information, Porous Pavements gives responsible practitioners a complete toolbox from which to select the appropriate material for site-specific conditions, providing a "green" alternative to impervious pavements.

M.B.A. Admission Tests

This book constitutes the refereed proceedings of the 7th Conference on Artificial Intelligence and Natural

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Language, AINL 2018, held in St. Petersburg, Russia, in October 2018. The 19 revised full papers were carefully reviewed and selected from 56 submissions and cover a wide range of topics, including morphology and word-level semantics, sentence and discourse representations, corpus linguistics, language resources, and social interaction analysis.

Advanced Informatics for Computing Research

The book gathers papers addressing state-of-the-art research in all areas of Information and Communication Technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the third International Conference on Information and Communication Technology for Intelligent Systems, which was held on April 6–7, 2018, in Ahmedabad, India. Divided into two volumes, the book discusses the fundamentals of various data analytics and algorithms, making it a valuable resource for researchers' future studies.

Design, Production and Placement of Self-Consolidating Concrete

A foreword for the present workshop proceedings cannot be provided without first looking at the larger context of the AMI conference in which the workshops were organized. The AMI 2007 conference has roots in preceding events, but in many respects, AMI can be called a novel conference format and hence a

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premiere. Among the several aims that inspired and shaped this new conference format, the following two are particularly worth considering: (1) to provide a forum for the ambient intelligence flavor of research on the Post-PC era of computer science, complementing the ubiquitous computing and pervasive computing flavors emphasized by already-existing conferences; (2) to offer an event that attracts contributions from all over the globe yet emphasizes European strengths - with particular reference to the Information Society Technologies (IST) branch of the EU research framework programs (FPs), which carry the same label as the conference. The workshop organization chairs reflected these unique characteristics of the new AMI conference series in the call for workshop proposals using two corresponding measures: (1) by particularly soliciting workshops on in-depth topics corresponding to the above-mentioned ambient intelligence flavor of Post-PC research; (2) by offering two different workshop threads: one 'usual' thread for advanced topics (called "SW workshops") and one thread for workshops related to concrete EU FP6 and FP7 projects (called "EU workshops").

Mixture Modelling for Medical and Health Sciences

This open access book constitutes the refereed proceedings of the 17th International Conference on String Processing and Information Retrieval, ICOST 2019, held in New York City, NY, USA, in October 2019. The 15 full papers and 5 short papers

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presented in this volume were carefully reviewed and selected from 24 submissions. They cover topics such as: e-health technology design; well-being technology; biomedical and health informatics; and smart environment technology.

Machine Learning

The book provides NGOs and fund raising practitioners with an in-depth knowledge of the individual gift giving market, and fund raising principles and strategies employed in seven Asian countries: Bangladesh, India, Indonesia, Nepal, Pakistan, the Philippines and Thailand. It provides a regional overview of fund raising experiences, and presents the findings of a comparative survey of philanthropic giving.

Blockchain in Healthcare

Artificial Intelligence and Natural Language

This book presents state-of-the-art solutions to the theoretical and practical challenges stemming from the leverage of big data and its computational intelligence in supporting smart network operation, management, and optimization. In particular, the technical focus covers the comprehensive understanding of network big data, efficient collection and management of network big data, distributed and scalable online analytics for network big data, and

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emerging applications of network big data for computational intelligence.

The Engineer

Modern neural networks gave rise to major breakthroughs in several research areas. In neuroscience, we are witnessing a reappraisal of neural network theory and its relevance for understanding information processing in biological systems. The research presented in this book provides various perspectives on the use of artificial neural networks as models of neural information processing. We consider the biological plausibility of neural networks, performance improvements, spiking neural networks and the use of neural networks for understanding brain function.

Advances in Knowledge Discovery and Data Mining

Epigenetic Mechanisms in Cancer provides a comprehensive analysis of epigenetic signatures that govern disease development, progression and metastasis. Epigenetic signatures dictating tumor etiologies present an opportunity for biomarker identification which has broad potential for improving diagnosis, prognosis, prediction, and risk assessment. This volumes offers a unique evaluation of signature differences in childhood, sex-specific and race-specific cancers, and in doing so broadly illuminates the scope of epigenetic biomarkers in clinical environments. Chapters detail the major epigenetic process in

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humans consisting of DNA methylation, histone modifications and microRNAs (miRNAs) involved in the initiation, progression and metastasis of tumors. Also delineated are recent technologies such as next generation sequencing that are used to identify epigenetic profiles (primarily methylation analysis) in samples (normal, benign and cancerous) and which are highly important to the analysis of epigenetic outcomes. Offers broad coverage that is applicable to audiences in various area of cancer research - population studies, diagnostics, prognosis, prediction, therapy, risk, etc. Provides critical review analysis of the topics that will clarify and delineate the potential roles of epigenetic signatures in cancer management Covers basic, as well as, clinical areas of epigenetic mechanisms in tumorigenesis Features contributions by leading experts in the field Provides comprehensive coverage of current epigenetic signatures involved in the etiology of various cancers and miRNAs

Statistics for Bioengineering Sciences

This work deals with numerical simulations of fresh concrete flows. After the first introductory chapter dealing with the various physical phenomena involved in flows of fresh cementitious materials, the aim of the second chapter is to give an overview of the work carried out on simulation of flow of cement-based materials using computational fluid dynamics (CFD). This includes governing equations, constitutive equations, analytical and numerical solutions, and examples showing simulations of testing, mixing and

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castings. The third chapter focuses on the application of Discrete Element Method (DEM) in simulating the flow of fresh concrete. The fourth chapter is an introductory text about numerical errors both in CFD and DEM whereas the fifth and last chapter give some recent examples of numerical simulations developed by various authors in order to simulate the presence of grains or fibers in a non-Newtonian cement matrix.

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