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Gigantism and Acromegaly brings together pituitary experts, taking readers from bench research, to genetic analysis, clinical analysis, and new therapeutic approaches. This book serves as a reference for growth hormone over-

secretion and its diagnosis and treatment for endocrinologists, pediatricians, internists, and neurosurgeons, and for geneticists. Pharmaceutical companies may use it as a reference for drug development and research. Students, residents and fellows in medicine and endocrinology and genetics will also find it valuable as it provides a single up-to-date review of the molecular biology of gigantism and acromegaly as well as recommended approaches to evaluation and management. Acromegaly is a rare pituitary disorder that slowly changes its adult victim's appearance over time: larger hands and feet, bigger jaw, forehead, nose, and lips. Generally, a benign pituitary tumor is the cause and symptoms of acromegaly can vary from patient to patient, making a diagnosis difficult and prolonging suffering for years. Early detection is key in the management of acromegaly as the pathologic effects of increased growth hormone (GH) production are progressive and can be life-threatening as the result of associated cardiovascular, cerebrovascular, and respiratory disorders and malignancies. Accessible, up-to-date overview of the characteristics, state-of-the-art diagnostic procedures, and management of acromegaly and gigantism Provides a unique compendium of endocrinology, genetics, clinical diagnosis and therapeutics Contains contributions from internationally known experts

who have treated patients with acromegaly and gigantism This book includes high-quality research papers presented at the Third International Conference on Innovative Computing and Communication (ICICC 2020), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on 21-23 February, 2020. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications. This book gathers high-quality papers presented at the First International Conference on Sustainable Technologies for Computational Intelligence (ICTSCI 2019), which was organized by Sri Balaji College of Engineering and Technology, Jaipur, Rajasthan, India, on March 29-30, 2019. It covers emerging topics in computational intelligence and effective strategies for its implementation in engineering applications. This book is a collection of outstanding papers presented at the 1st International Conference on Advances in Computational Intelligence and Informatics (ICACII 2019), organized by the Department of Computer Science & Engineering, Anurag Group of Institutions (AGI), Hyderabad, on 20-21 December 2019. It includes innovative ideas and new

research findings in the field of Computational Intelligence and Informatics that will benefit researchers, scientists, technocrats, academics and engineers alike. The areas covered include high-performance systems, data science and analytics, computational intelligence and expert systems, cloud computing, computer networks and emerging technologies. This book offers the most up-to-date information about research surrounding the neurobiology of bipolar disorder as well as currently available and novel therapeutic options. The volume has assembled a widely respected group of preclinical and clinical researchers who bring their expertise to bear upon this illness by reviewing cutting-edge research and clinical evidence regarding the pathophysiology and treatment of bipolar disorder. Early chapters review the course and outcome and genetics of this highly heritable condition, including chapters on epigenetics and clinical endophenotypes. Several chapters offer a remarkably thorough and unique overview of the neurobiology of the disorder, including what is known from neuroimaging work and the development of animal models. Finally, the book covers treatment strategies for bipolar disorder, including both traditional and novel therapeutics, as well as non-pharmacological treatments. It offers both researchers and clinicians key insights into this devastating disorder. This book presents

basic and advanced concepts for energy harvesting and energy efficiency, as well as related technologies, methods, and their applications. The book provides up-to-date knowledge and discusses the state-of-the-art equipment and methods used for energy harvesting and energy efficiency, combining theory and practical applications. Containing over 200 illustrations and problems and solutions, the book begins with overview chapters on the status quo in this field. Subsequent chapters introduce readers to advanced concepts and methods. In turn, the final part of the book is dedicated to technical strategies, efficient methods and applications in the field of energy efficiency, which also makes it of interest to technicians in industry. The book tackles problems commonly encountered using basic methods of energy harvesting and energy efficiency, and proposes advanced methods to resolve these issues. All the methods proposed have been validated through simulation and experimental results. These "hot topics" will continue to be of interest to scientists and engineers in future decades and will provide challenges to researchers around the globe as issues of climate change and changing energy policies become more pressing. Here, readers will find all the basic and advanced concepts they need. As such, it offers a valuable, comprehensive guide for all students and practicing engineers who wishing to learn about and work in these fields.

This unique book provides a guide to the selection of appropriate production and manufacturing methods for postgraduate and professional manufacturing engineers. It starts by helping the reader to identify the required objectives of industrial management for their particular situation. Having identified the objectives an analytical assessment of the available production and management methods is made. The analytical system presents an objective method of production selection. For example, this practical book will help the reader to decide whether or not a local Just-in-Time process is needed or a full chain JIT method is needed. Alternatively the problem may be deciding between set-up time reduction or changeover time reduction. Should TQM be ceded to PCIs? This book covers nearly all methods of production and manufacturing and will prove the most comprehensive guide to choosing and using these methods. Only book of its kind available Widest coverage of methods available Analytical approach to decision making This volume is based on contributions from the First International Conference on [Recent Advances in Natural Language Processing] (RANLP'95) held in Tzigov Chark, Bulgaria, 14-16 September 1995. This conference was one of the most important and competitively reviewed conferences in Natural Language Processing (NLP) for 1995 with submissions from more than 30 countries. Of the 48 papers

presented at RANLP'95, the best (revised) papers have been selected for this book, in the hope that they reflect the most significant and promising trends (and latest successful results) in NLP. The book is organised thematically and the contributions are grouped according to the traditional topics found in NLP: morphology, syntax, grammars, parsing, semantics, discourse, grammars, generation, machine translation, corpus processing and multimedia. To help the reader find his/her way, the authors have prepared an extensive index which contains major terms used in NLP; an index of authors which lists the names of the authors and the page numbers of their paper(s); a list of figures; and a list of tables. This book will be of interest to researchers, lecturers and graduate students interested in Natural Language Processing and more specifically to those who work in Computational Linguistics, Corpus Linguistics and Machine Translation. Cognitive science arose in the 1950s when it became apparent that a number of disciplines, including psychology, computer science, linguistics, and philosophy, were fragmenting. Perhaps owing to the field's immediate origins in cybernetics, as well as to the foundational assumption that cognition is information processing, cognitive science initially seemed more unified than psychology. However, as a result of differing interpretations of the foundational assumption and dramatically divergent views of

the meaning of the term information processing, three separate schools emerged: classical cognitive science, connectionist cognitive science, and embodied cognitive science. Examples, cases, and research findings taken from the wide range of phenomena studied by cognitive scientists effectively explain and explore the relationship among the three perspectives. Intended to introduce both graduate and senior undergraduate students to the foundations of cognitive science, *Mind, Body, World* addresses a number of questions currently being asked by those practicing in the field: What are the core assumptions of the three different schools? What are the relationships between these different sets of core assumptions? Is there only one cognitive science, or are there many different cognitive sciences? Giving the schools equal treatment and displaying a broad and deep understanding of the field, Dawson highlights the fundamental tensions and lines of fragmentation that exist among the schools and provides a refreshing and unifying framework for students of cognitive science. Michael R. W. Dawson is a professor of psychology at the University of Alberta. He is the author of numerous scientific papers as well as the books *Understanding Cognitive Science* (1998), *Minds and Machines* (2004), *Connectionism: A Hands-on Approach* (2005), and *From Bricks to Brains: The Embodied Cognitive Science of LEGO*

Robots (2010). This book includes high-quality research papers presented at the Third International Conference on Innovative Computing and Communication (ICICC 2020), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on 21–23 February, 2020. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications. This book gathers selected papers presented at the International Conference on Advancements in Computing and Management (ICACM 2019). Discussing current research in the field of artificial intelligence and machine learning, cloud computing, recent trends in security, natural language processing and machine translation, parallel and distributed algorithms, as well as pattern recognition and analysis, it is a valuable resource for academics, practitioners in industry and decision-makers. This book is open access under a CC BY 4.0 license. This open access book brings together the latest genome base prediction models currently being used by statisticians, breeders and data scientists. It provides an accessible way to understand the theory behind each statistical learning tool, the required pre-processing,

the basics of model building, how to train statistical learning methods, the basic R scripts needed to implement each statistical learning tool, and the output of each tool. To do so, for each tool the book provides background theory, some elements of the R statistical software for its implementation, the conceptual underpinnings, and at least two illustrative examples with data from real-world genomic selection experiments. Lastly, worked-out examples help readers check their own comprehension. The book will greatly appeal to readers in plant (and animal) breeding, geneticists and statisticians, as it provides in a very accessible way the necessary theory, the appropriate R code, and illustrative examples for a complete understanding of each statistical learning tool. In addition, it weighs the advantages and disadvantages of each tool. Sustainable Composites for Aerospace Applications presents innovative advances in the fabrication, characterization and applications of LDH polymer nanocomposites. It covers fundamental structural and chemical knowledge and explores various properties and characterization techniques, including microscopic, spectroscopic and mechanical behaviors. Users will find a strong focus on the potential applications of LDH polymer nanocomposites, such as in energy, electronics, electromagnetic shielding, biomedical, agricultural, food packaging and water purification functions. This

book provides comprehensive coverage of cutting-edge research in the field of LDH polymer nanocomposites and future applications, and is an essential read for all academics, researchers, engineers and students working in this area. Presents fundamental knowledge of LDH polymer nanocomposites, including chemical composition, structural features and fabrication techniques Provides an analytical overview of the different types of characterization techniques and technologies Contains extensive reviews on cutting-edge research for future applications in a variety of industries While statistical arbitrage has faced some tough times?as markets experienced dramatic changes in dynamics beginning in 2000?new developments in algorithmic trading have allowed it to rise from the ashes of that fire. Based on the results of author Andrew Pole?s own research and experience running a statistical arbitrage hedge fund for eight years?in partnership with a group whose own history stretches back to the dawn of what was first called pairs trading?this unique guide provides detailed insights into the nuances of a proven investment strategy. Filled with in-depth insights and expert advice, Statistical Arbitrage contains comprehensive analysis that will appeal to both investors looking for an overview of this discipline, as well as quants looking for critical insights into modeling, risk management, and

implementation of the strategy. This book presents the latest trends and approaches in artificial intelligence research and its application to intelligent systems. It discusses hybridization of algorithms, new trends in neural networks, optimisation algorithms and real-life issues related to the application of artificial methods. The book constitutes the second volume of the refereed proceedings of the Artificial Intelligence and Algorithms in Intelligent Systems of the 7th Computer Science On-line Conference 2018 (CSOC 2018), held online in April 2018. This title includes a number of Open Access chapters. Nutrition is becoming ever more central to our understanding of metabolic processes. Nutritional biochemistry offers insight into the mechanisms by which diet influences human health and disease. This book focuses on five aspects of this complex field of study: nutritional genomics, clinical nutrition and biochemistry, vitamins and minerals, macronutrients and energy, and cell function and metabolism. Collected in this research compendium are recent studies within each of these topics. Each chapter contributes to a well-rounded and up-to-date picture of nutritional biochemistry. Appropriate for graduate-level and post-doctorate students, this book will stimulate further study into this important field of research. This book provides insights into the current state of sorghum genomics. It particularly focuses on the tools and strategies employed

in genome sequencing and analysis, public and private genomic resources and how all this information is leading to direct outcomes for plant breeders. The advent of affordable whole genome sequencing in combination with existing cereal functional genomics data has enabled the leveraging of the significant novel diversity available in sorghum, the genome of which was fully sequenced in 2009, providing an unmatched resource for the genetic improvement of sorghum and other grass species. Cultivated grain sorghum is a food and feed cereal crop adapted to hot and dry climates, and is a staple for 500 million of the world's poorest people. Globally, sorghum is also an important source of animal feed and forage, an emerging biofuel crop and model for C4 grasses, particularly genetically complex sugarcane. Data mining is the process of extracting hidden patterns from data, and it's commonly used in business, bioinformatics, counter-terrorism, and, increasingly, in professional sports. First popularized in Michael Lewis' best-selling *Moneyball: The Art of Winning An Unfair Game*, it is has become an intrinsic part of all professional sports the world over, from baseball to cricket to soccer. While an industry has developed based on statistical analysis services for any given sport, or even for betting behavior analysis on these sports, no research-level book has considered the subject in any detail until now. *Sports Data Mining* brings

together in one place the state of the art as it concerns an international array of sports: baseball, football, basketball, soccer, greyhound racing are all covered, and the authors (including Hsinchun Chen, one of the most esteemed and well-known experts in data mining in the world) present the latest research, developments, software available, and applications for each sport. They even examine the hidden patterns in gaming and wagering, along with the most common systems for wager analysis. This book constitutes the refereed post-conference proceedings of the Fifth International Conference on IoT as a Service, IoTaaS 2019, which took place in Xi'an, China, in November 2019. The 54 revised full papers were carefully reviewed and selected from 106 submissions. The papers contribute to the discussion on the challenges posed by Internet of Things (Io). The two technical tracks and three workshops deal in detail: Networking and Communications Technologies for IoT, IoT as a service, International Workshop on Edge Intelligence and Computing for IoT Communications and Applications, International Workshop on Wireless Automated Networking for Internet of Things, and International Workshop on Ubiquitous Services Transmission for Internet of Things. This book provides readers with a selection of high-quality chapters that cover both theoretical concepts and practical applications of

image feature detectors and descriptors. It serves as reference for researchers and practitioners by featuring survey chapters and research contributions on image feature detectors and descriptors. Additionally, it emphasizes several keywords in both theoretical and practical aspects of image feature extraction. The keywords include acceleration of feature detection and extraction, hardware implantations, image segmentation, evolutionary algorithm, ordinal measures, as well as visual speech recognition. Defines the notion of an activity model learned from sensor data and presents key algorithms that form the core of the field *Activity Learning: Discovering, Recognizing and Predicting Human Behavior from Sensor Data* provides an in-depth look at computational approaches to activity learning from sensor data. Each chapter is constructed to provide practical, step-by-step information on how to analyze and process sensor data. The book discusses techniques for activity learning that include the following: Discovering activity patterns that emerge from behavior-based sensor data Recognizing occurrences of predefined or discovered activities in real time Predicting the occurrences of activities The techniques covered can be applied to numerous fields, including security, telecommunications, healthcare, smart grids, and home automation. An online companion site enables readers to experiment with the

techniques described in the book, and to adapt or enhance the techniques for their own use. With an emphasis on computational approaches, *Activity Learning: Discovering, Recognizing, and Predicting Human Behavior from Sensor Data* provides graduate students and researchers with an algorithmic perspective to activity learning. Pregnancy is viewed as a window to future health. With the birth of the developmental origins of human adult disease hypothesis, research and clinical practice has turned its attention to the influence of maternal factors such as health and lifestyle surrounding pregnancy as a means to understand and prevent the inter-generational inheritance of chronic disease susceptibility. Outcomes during pregnancy have long-lasting impacts on both women and children. Moreover, nutrition early in life can influence growth and the establishment of lifelong eating habits and behaviors. This Special Issue on "Nutrition during Pregnancy and Lactation: Implications for Maternal and Infant Health" is intended to highlight new epidemiological, mechanistic and interventional studies that investigate maternal nutrition around the pregnancy period on maternal and infant outcomes. Submissions may include original research, narrative reviews, and systematic reviews and meta-analyses. This book constitutes the refereed proceedings of the 17th International Conference on Artificial Intelligence: Methodology, Systems, and

Applications, AIMS 2016, held in Varna, Bulgaria in September 2015. The 32 revised full papers and 6 poster papers presented were carefully reviewed and selected from 86 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. *Epigenetics in Psychiatry, Second Edition* covers all major areas of psychiatry in which extensive epigenetic research has been performed, fully encompassing a diverse and maturing field, including drug addiction, bipolar disorder, epidemiology, cognitive disorders, and the uses of putative epigenetic-based psychotropic drugs. Uniquely, each chapter correlates epigenetics with relevant advances across genomics, transcriptomics, and proteomics. The book acts as a catalyst for further research in this growing area of psychiatry. This new edition has been fully revised to address recent advances in epigenetic understanding of psychiatric disorders, evoking data consortia (e.g., CommonMind, ATAC-seq), single cell analysis, and epigenome-wide association studies to empower new research. The book also examines epigenetic effects of the microbiome on psychiatric disorders, and the use of neuroimaging in studying the role of epigenetic mechanisms of gene expression. Ongoing advances in epigenetic therapy

are explored in-depth. Fully revised to discuss new areas of research across neuronal stem cells, cognitive disorders, and transgenerational epigenetics in psychiatric disease. *Relates broad advances in psychiatric epigenetics to a modern understanding of the genome, transcriptome, and proteins*. *Catalyzes knowledge discovery in both basic epigenetic biology and epigenetic targets for drug discovery*. *Provides guidance in research methods and protocols, as well how to employ data from consortia, single cell analysis, and epigenome-wide association studies (EWAS)*. *Features chapter contributions from international leaders in the field*. This book constitutes the proceedings of the 6th International Conference on Technologies and Innovation, CITI 2020, held in Guayaquil, Ecuador, in November-December 2020. The 16 full papers presented in this volume were carefully reviewed and selected from 41 submissions. They are organized in topical sections named: semantic technologies and machine learning; ICT for agronomy and environment; mobile and collaborative technologies. This book discusses current evidence on human viruses and provides an extensive coverage of newly emerged viruses and current strategies for treatment. Offering a new perspective in view of the re-emergence of Ebola in African countries and Dengue in India and Pakistan, the contents include chapters on emergence, pathogenicity, epidemiology and vaccine

uptake. **Human Viruses: Diseases, Treatments and Vaccines: The New Insights** discusses a range of viruses from the most common such as Influenza and Hepatitis to Zika, Poliomyelitis and Chikungunya among many others. It is authored by a team of experts on viral disease and will be of immense use to virologists, public health experts and clinicians. This book comprises select proceedings of the international conference ETAEERE 2020, and focuses on contemporary issues in energy management and energy efficiency in the context of power systems. The contents cover modeling, simulation and optimization based studies on topics like medium voltage BTB system, cost optimization of a ring frame unit in textile industry, rectenna for RF energy harvesting, ecology and energy dimension in infrastructural designs, study of AGC in two area hydro thermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication. This book can be beneficial for students, researchers as well as industry professionals. For courses in decision support systems, computerized decision-making tools, and management support systems. **Market-leading guide to modern analytics, for better business decisions** **Analytics, Data Science, & Artificial Intelligence: Systems for Decision Support** is the most comprehensive introduction to technologies collectively called analytics (or business analytics)

and the fundamental methods, techniques, and software used to design and develop these systems. Students gain inspiration from examples of organisations that have employed analytics to make decisions, while leveraging the resources of a companion website. With six new chapters, the 11th edition marks a major reorganisation reflecting a new focus -- analytics and its enabling technologies, including AI, machine-learning, robotics, chatbots, and IoT. **KEY BENEFITS:** Offering full coverage of Linux in one source, this book documents the most commonly needed topics for new and experienced Linux users and programmers - including over 100 utilities and their common options. **KEY TOPICS:** Provides a good foundation of understanding for the most often-used Linux utilities. Devotes a chapter to helpful installation information for those who must install their own systems. Includes hundreds of command and code examples throughout. Provides approximately 50 diagrams throughout. Features FTP-able files; code used in the book will be made available on a website hosted by the publisher. **MARKET:** A useful reference for anyone using a Linux platform, including programmers, system administrators, and any user who must understand the operating system outside of a specific application. **Neuropsychiatric Disorders and Epigenetics** is a comprehensive reference for the epigenetic basis of most common neuropsychiatric

disorders. The volume is organized into chapters representing individual neuropsychiatric disorders, from addition to obesity contributed by leading experts in their respective fields. The epigenetic aspects of each disorder are discussed, in the context of the full range of epigenetic mechanisms including DNA modification, histone post-translational modification, chromatin organization and non-coding RNA. A particular emphasis is placed on potential epigenetic interventions, when the effects of environmental stimuli on epigenetic states is particularly relevant to disease. Recent discoveries in epigenetic research enabled by epic advances in genomic technologies have positioned the field for broad translation to therapeutic interventions for previously unmanageable disorders. **Neuropsychiatric disorders** represent a prime target of epigenetic interventions as they are highly debilitating, often chronic diseases with enormous costs to society. Thus, this volume will help define epigenetics as a key player in neuropsychiatric disorders, highlighting the full spectrum of epigenetic mechanisms underlying such disorders and introducing the vast range of epigenetic therapies under development. Analyzes the effects of environmental stimuli on epigenetic states that correlate with neuropsychiatric disease induction. **Reviews the epigenetic basis for common neuropsychiatric disorders, thereby guiding translational**

therapies for clinicians and mechanistic studies for scientists Extensive use of diagrams, illustrations, tables, and graphical abstracts for each section providing rapid assessment This book reviews the state of the art of big data analysis and smart city. It includes issues which pertain to signal processing, probability models, machine learning, data mining, database, data engineering, pattern recognition, visualisation, predictive analytics, data warehousing, data compression, computer programming, smart city, etc. Data is becoming an increasingly decisive resource in modern societies, economies, and governmental organizations. Data science inspires novel techniques and theories drawn from mathematics, statistics, information theory, computer science, and social science. Papers in this book were the outcome of research conducted in this field of study. The latter makes use of applications and techniques related to data analysis in general and big data and smart city in particular. The book appeals to advanced undergraduate and graduate students, postdoctoral researchers, lecturers and industrial researchers, as well as anyone interested in big data analysis and smart city. Handbook of Educational Data Mining (EDM) provides a thorough overview of the current state of knowledge in this area. The first part of the book includes nine surveys and tutorials on the principal data mining techniques that have

been applied in education. The second part presents a set of 25 case studies that give a rich overview of the problems that EDM has addressed. Researchers at the Forefront of the Field Discuss Essential Topics and the Latest Advances With contributions by well-known researchers from a variety of fields, the book reflects the multidisciplinary nature of the EDM community. It brings the educational and data mining communities together, helping education experts understand what types of questions EDM can address and helping data miners understand what types of questions are important to educational design and educational decision making. Encouraging readers to integrate EDM into their research and practice, this timely handbook offers a broad, accessible treatment of essential EDM techniques and applications. It provides an excellent first step for newcomers to the EDM community and for active researchers to keep abreast of recent developments in the field. Decision Support and Business Intelligence Systems provides the only comprehensive, up-to-date guide to today's revolutionary management support system technologies, and showcases how they can be used for better decision-making. The 10th edition focuses on Business Intelligence (BI) and analytics for enterprise decision support in a more streamlined book.

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