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Type 2 Fuzzy Logic: Theory and Applications

Frontiers in Biomedical Engineering

Cardio-Oncology

Definitely Dead

Climate Smart Agriculture in South Asia

The Embodied Self

Effective Medical Communication

Biological systems are inherently stochastic and uncertain. Thus, research in bioinformatics, biomedical engineering and computational biology has to deal with a large amount of uncertainties. Fuzzy logic has shown to be a powerful tool in capturing different uncertainties in engineering systems. In recent years, fuzzy logic based modeling and analysis approaches are also becoming popular in analyzing biological data and modeling biological systems. Numerous research and application results have been reported that demonstrated the effectiveness of fuzzy logic in solving a wide range of biological problems found in bioinformatics, biomedical engineering, and computational biology. Contributed by leading experts world-wide, this edited book contains 16 chapters presenting representative research results on the application of fuzzy systems to genome sequence assembly, gene expression analysis, promoter analysis, cis-regulation logic analysis and synthesis, reconstruction of genetic and cellular networks, as well as biomedical problems, such as medical image processing, electrocardiogram data classification and anesthesia monitoring and control. This volume is a valuable reference for researchers, practitioners, as well as graduate students working in the field of bioinformatics, biomedical engineering and computational biology.

EKG | ECG An Ultimate Step-By-Step Guide to 12-Lead EKG | ECG Interpretation, Rhythms & Arrhythmias Including Basic Cardiac Dysrhythmias

We have researched extensively and consulted key figure in the nursing fraternity before coming up with this book. All the finer details you need as a nurse, so as to effectively interpret the EKG has been taken in to account and explained in a very friendly language. We have started by explaining everything about the cardiac conduction system. This topic is very vital as it will help you to comprehend things as seen on the EKG. A fter that we have gone into detail about all the 5 effective parts of the EKG interpretation. We have taken a systematic approach here and made it easier for every reader including newbie nurses to understand everything. You will be amazed by how easy this topic has been made to look. Then, we have the basic cardiac dysrhythmias explained in a very special way. This starts with the description of each arrhythmias followed by comprehensive details on how you should identify each on the EKG rhythm strip. The book has also made a good use of diagram, so as to enable every principle to sink deeper into your memory. Buying this book will be a very WISE idea if all you want is to excel in the medical field.

Revised and updated for its Seventh Edition, this highly acclaimed volume is a complete, current, and practical guide to the diagnosis and treatment of allergic disorders. This comprehensive yet concise reference will remain the first choice for residents and practitioners who need guidance to identify an allergy, confirm a diagnosis, or find effective therapies. It will also be an excellent aid for board review. This edition includes discussions of clinical trials in asthma and significant updates on drug allergy, imaging, occupational allergy, and immune deficiency evaluation. A Companion Website will include the fully searchable text and additional illustrations and tables.

ESSA's Student Manual for Health, Exercise and Sport Assessment is an essential text for students and exercise clinicians wishing to accredit with ESSA as exercise scientists. Written by former ESSA President Jeff Coombes and clinical exercise physiologist Tina Skinner, this book provides everything students need to achieve competency in ESSA Standard 7, Health Exercise and Sport Assessment. It contains in-depth and well-articulated methodology for all tests, data recording tables and normative values, and case study analyses. Each of the 21 chapters addresses key health and fitness assessments used to evaluate health, fitness and performance. With easy-to-follow practicals throughout, this book has been updated to reflect current best practice and recent advances such as wearable devices and smartphone apps. Endorsed by Exercise and Sports Science Australia (ESSA) Aligned with National University Course Accreditation Program criteria Practical data recording tables Australian-specific population normative data tables End of chapter discussion questions to apply knowledge to different case scenarios Traditional and contemporary gold standard tests that are valid and reliable Detailed, easy to follow step-by-step protocols An eBook included in all print purchases A diditional resources on Evolve eBook on VitalSource Instructor resources: Image Collection Testbank Student resources: Case studies A diditional Laboratory Assignments Criteria Sheets Data recording template New Static and Dynamic Posture practical New Test Accuracy,
Reliability and Validity practical New activities reflecting recent advances in the field Increased focus on the interpretation, feedback and discussion of the data collected during the assessment with the participant

The interactive computer-generated world of virtual reality has been successful in treating phobias and other anxiety-related conditions, in part because of its distinct advantages over traditional in vivo exposure. Yet many clinicians still think of VR as being too risky, time-consuming, and resource-intensive. This book addresses the concept of presence, and explains the side effects, known as cybersickness, that affect a small percentage of clients. Chapters in the book's main section detail current training techniques and review study findings for using VR in the treatment of: Claustrophobia. Panic disorder, agoraphobia, and driving phobia. Acrophobia and aviophobia. Social phobia. Generalized anxiety disorder and OCD. PTSD. Plus clinical guidelines for establishing a VR clinic. An in-depth framework for effective (and cost-effective) therapeutic innovations for entrenched problems, Advances in Virtual Reality and Anxiety Disorders will find an engaged audience among psychologists, psychiatrists, social workers, and mental health counselors effective.

"Pharmacology for Health Professionals provides a comprehensive introduction to important pharmacology principles and concepts, with a strong focus on therapeutics. "The text has been extensively updated to reflect the latest information on the clinical use of drugs, local aspects of scheduling, drug legislation and ethics." -- Book jacket.

This book describes bio-inspired models and applications of hybrid intelligent systems using soft computing techniques for image analysis and pattern recognition based on biometrics and other sources. Each section groups papers on a similar subject.

ESSA's Student Manual for Health, Exercise and Sport Assessment is an essential text for any student undertaking an exercise and sports science degree and professionals working in the exercise and fitness industries. This practical manual contains fundamental theory and detailed step-by-step protocols designed to assist students and practitioners to develop competency for conducting tests in exercise, health and sports science. Written by leading Australian and New Zealand academics and published in collaboration with Exercise & Sports Science Australia (ESSA), ESSA's Student Manual for Health, Exercise and Sport Assessment is the first Australian text written with ESSA's accreditation framework in mind. Evolve multiple choice questions and short answer questions Criteria sheets to assess skill competency Worked examples and case studies Data recording sheets Image collection Excel spreadsheet to record and analyse data from activities within the manual Key features Combines the theory underpinning testing procedures and comprehensive step-by-step protocols Includes practical data recording tables Protocols that encompass the spectrum of tests in exercise, health and sports science including, but not limited to, anthropometry, muscular strength, submaximal and maximal exercise testing, range of motion and threshold tests Includes pre-testing procedures and equipment requirements for conducting assessments Emphasis on the accuracy of the measurement, including calibration and verification of equipment Section on laboratory safety, cleaning and disinfecting Links analysis, interpretation and communication of test results Data analysis practical that encourages the reader to analyse their own data collected in the activities

Effective communication is at the heart of medical profession, whether it is patient-doctor communication, interpersonal communication, or communication with the scientific and research community. However, medical professionals are not adequately trained in these skills, and when it comes to presentations, the message is often lost due to inadequate preparation, ineffective slides, and a generally unconvincing performance by the presenter. This book addresses all aspects of the communication skills required by individuals entering medical school as well as professionals farther up the career ladder. Each chapter offers a quote or a statement that captures the essence of the text. A unique approach known as Assess Need, Brief, Contextualize, Describe and Evaluate) the book includes abundant illustrations, real-world case scenarios, anecdotes, tables, graphs and cartoons, as well as practical information, and tips on communicating effectively. Such a book is a valuable resource for new and experienced clinicians, educators and researchers wanting to improve their communications skills.

New Frontiers in Biomedical Engineering will be an edited work taken from the 1st Annual World Congress of Chinese Biomedical Engineers - Taipei, Taiwan 2002. As the economy develops rapidly in China and the Asian-Pacific population merges into the global healthcare system, many researchers in the West are trying to make contact with the Chinese BME scientists. At WCCBME 2002, invited leaders, materials scientists, bioengineers, molecular and cellular biologists, orthopaedic surgeons, and manufacturers from P.R. of China, Taiwan, Singapore and Hong Kong covered all five major BME domains: biomechanics, biomaterials and tissue engineering, medical imaging, biophotonics and instrumentation, and rehabilitation. This edited work taken from the World Congress proceedings will capture worldwide readership.

How do you approach answering queries when your data is stored in multiple databases that were designed independently by different people? This is first comprehensive book on data integration and is written by three of the most respected experts in the field. This book provides an extensive introduction to the theory and concepts underlying today's data integration techniques, with detailed, instruction for their application using concrete examples throughout to explain the concepts. Data integration is the problem of answering queries that span multiple data sources (e.g., databases, web pages). Data integration problems surface in multiple contexts, including enterprise information integration, query
processing on the Web, coordination between government agencies and collaboration between scientists. In some cases, data integration is the key bottleneck to making progress in a field. The authors provide a working knowledge of data integration concepts and techniques, giving you the tools you need to develop a complete and concise package of algorithms and applications. Offers a range of data integration solutions enabling you to focus on what is most relevant to the problem at hand. Enables you to build your own algorithms and implement your own data integration applications.

Written by the world’s foremost authorities, this volume provides comprehensive coverage of current approaches to the prevention, diagnosis, and management of atherothrombosis and its coronary and noncoronary complications. This edition has been thoroughly updated, sharply focused on clinical information, and trimmed to one manageable volume. Coverage begins with a review of risk factors and prevention, emphasizing lipid abnormalities, hypertension, smoking, diabetes, and obesity. Subsequent sections examine the pathogenesis of atherosclerosis, markers and imaging, acute coronary syndromes, chronic stable angina, and noncoronary atherothrombosis. Clinical presentations, medical management, and the latest interventional strategies are included.

This book describes the latest advances in fuzzy logic, neural networks, and optimization algorithms, as well as their hybrid intelligent combinations, and their applications in the areas such as intelligent control, robotics, pattern recognition, medical diagnosis, time series prediction, and optimization. The topic is highly relevant as most current intelligent systems and devices use some form of intelligent feature to enhance their performance. The book also presents new and advanced models and algorithms of type-2 fuzzy logic and intuitionistic fuzzy systems, which are of great interest to researchers in these areas. Further, it proposes novel, nature-inspired optimization algorithms and innovative neural models. Featuring contributions on theoretical aspects as well as applications, the book appeals to a wide audience.

Sink your teeth into the first novel in the #1 New York Times bestselling Sookie Stackhouse series—the books that gave life to the Dead and inspired the HBO® original series True Blood. Sookie Stackhouse is just a small-time cocktail waitress in small-town Bon Temps, Louisiana. She’s quiet, doesn’t get out much, and tends to mind her own business—except when it comes to her “disability.” Sookie can read minds. And that doesn’t make her too dateable. Then along comes Bill Compton. He’s tall, dark, handsome—and Sookie can’t hear a word he’s thinking. He’s exactly the type of guy she’s been waiting for all her life. But Bill has a disability of his own: he’s a vampire with a bad reputation. And when a string of murders hits Bon Temps—along with a gang of truly nasty bloodsuckers looking for Bill—Sookie starts to wonder if having a vampire for a boyfriend is such a bright idea.

This book discusses various climate smart agro-technologies, their technical and economic feasibility across heterogeneous agro-climatic conditions, assessing farmers’ willingness to adopt those technologies, impact of climate smart technology in agricultural production and possible policy and investment opportunities to upscale it. Containing eight chapters, the book starts with a discussion about the methodological aspects of priority setting of the farm technologies across various regions of South Asia including Eastern Indo-Gangetic plain, Western Indo-Gangetic Plain and arid regions. Using data from field based trials and expert solicitations, the book next deliberates on a list of feasible technologies, assessed by constructing climate smart feasibility index. Further on, there is an analysis, using stated preference method, of the behaviour of farmers in adopting climate smart technologies. Preference of women farmers has been given a special focus in this book. After discussing the method priority setting of the farm technologies, impact of climate smart technologies has been analysed using real time data. Government policies have been reviewed with the view of achieving climate smart agriculture in South Asia. The book also describes the optimization modelling framework for investment allocation and technology prioritization. The model integrates both the bio-physical and the economic optimization model to capture the agro-climatic heterogeneity within the region and the variability of technical feasibility across regions and crops. Results of this model will help policy makers to identify how much to invest, where to invest and what technologies to prioritize for investments.

$\text{Death isn’t unusual in the back of an ambulance\textdegree }$ or is it? Author Sean Fitzmorris draws on his many years of experience as a paramedic and a nurse to tell the story of Found Wanting. Marc is a veteran paramedic in New Orleans. Years of dealing with the worst of society have hardened him and left him with a dark secret. His partner, Brian, is a brand-new EMT who wants only to help everyone. Follow Marc and Brian as they respond to 911 calls. It’s hard for Brian to
keep his positive outlook, but what will he do when he begins to get suspicious at the unusual deaths in his ambulance?

This volume presents the proceedings of the Fifth International Conference on the Development of Biomedical Engineering in Vietnam which was held from June 16-18, 2014 in Ho Chi Minh City. The volume reflects the progress of Biomedical Engineering and discusses problems and solutions. It aims identifying new challenges, and shaping future directions for research in biomedical engineering fields including medical instrumentation, bioinformatics, biomechanics, medical imaging, drug delivery therapy, regenerative medicine and entrepreneurship in medical devices.

Written in a clear, easy-to-understand style, Introduction to Basic Cardiac Dysrhythmias, Revised Fourth Edition, uses straightforward language to explain how the heart functions and how to interpret ECGs-essential knowledge that will allow you to anticipate the appropriate treatment for each. Coverage of the 2010 Emergency Cardiovascular Care guidelines are reflected in all topics in the text.

"Most hematologists need a revised and practical textbook in which they can rapidly search on the morning of a consultation. This book will be an important resource in such situations. New England Journal of Medicine A well established and respected review of hematology Postgraduate Haematology is a practical, readable text which will give trainees, residents and practising hematologists up-to-date knowledge of the pathogenesis, clinical and laboratory features and management of blood disorders. Postgraduate Haematology is ideal for: Trainees and residents in hematology Hematologists in practice Why Buy This Book? A well established and respected review of hematology Practical and readable text Essential information for everyday use as well as the scientific background Up-to-date knowledge of the pathogenesis, clinical and laboratory features and management of blood disorders Complete revision of all chapters and the addition of new chapters to reflect latest advances in the specialty

"ECG Workbook is a practical Australian medical book approaching the ECG from a clinical diagnosis perspective. The book covers ECG diagnoses - normal and abnormal - commonly encountered in local clinical practice. It includes ECGs from real cases encountered in local practice. The reader is guided through the ECG to make the clinical diagnosis and decide on the appropriate management. It presents pathologies as case scenarios to train the reader to interpret ECGs according to specific parameters. A normal pathological and normal scenarios are presented in the ECGs for the reader to analyse in order to manage the patient. Real case studies are used throughout, along with local medical content. Each ECG is presented with a brief clinical synopsis. The reader answers structured key questions for each, creating a systematic process for ECG interpretation."--Publisher.

Perfect for residents, generalists, anesthesiologists, emergency department physicians, medical students, nurses, and other healthcare professionals who need a practical, working knowledge of cardiology, Netter's Cardiology, 3rd Edition, provides a concise overview of cardiovascular disease highlighted by unique, memorable Netter illustrations. This superb visual resource showcases the well-known work of Frank H. Netter, M.D., and his successor, Carlos M.achado, M.D., a cardiologist who has created clear, full-color illustrations in the Netter tradition. New features and all-new chapters keep you up to date with the latest information in the field. Includes 13 all-new chapters: Basic Anatomy and Embryology of the Heart, Stem Cell Therapies for Cardiovascular Disease, Diabetes and Cardiovascular Events, Clinical Presentation of Adults with Congenital Heart Disease, Transcatheter Aortic Valve Replacement, Deep Vein Thrombosis and Pulmonary Embolism, and more. Features new coverage of 3-D TEE imaging for structural heart procedures. Contains color-coded diagnostic and therapeutic algorithms and clinical pathways. Uses an easy-to-follow, templated format, covering etiology, pathogenesis, clinical presentation, diagnostic approach, and management/therapy for each topic. Offers dependable clinical advice from Drs. George A. Stouffer, Marschall S. Runge, Cam Patterson, and Joseph S. Rossi, as well as many world-renowned chapter contributors.

Achieve IELTS is written by experienced IELTS teachers and examiners and offers a unique approach to preparing students for the IELTS examination. It is a two-level, student-centred course that not only prepares students for the test but also for academic life after IELTS. This popular IELTS preparation course has been completely revised. The Student's and Teacher's Books have been redesigned. The Student's Books have new and updated listening and reading texts, and almost all of the photographs, charts and graphs have been replaced.

Cardio-Oncology: Principles, Prevention and Management is a clinical volume that focuses on the basic science of cardio-oncology, addresses cardiotoxicity as a consequence of cancer therapy, and discusses prevention, diagnosis and management of cardiovascular disease in patients with cancer. This comprehensive volume presents unique perspectives ranging from basic science to clinical medicine in the field of cardio-oncology. It would be a valuable resource for cardiologists, oncologists, internists, and pediatricians caring for patients with cancer who have cardiovascular risk factors, as well as for cardio-oncology researchers. Covers basic science of cardio-oncology to provide readers with the necessary background A addresses cardiotoxicity related to current cancer therapeutic modalities Discusses diagnostic and management approaches of patients with underlying cardiac risk factors as well as otherwise healthy cancer patients

This book describes new methods for building intelligent systems using type-2 fuzzy logic and soft computing (SC) techniques. The authors extend the use of fuzzy logic to a higher order, which is called type-2 fuzzy logic. Combining type-2 fuzzy logic with traditional SC techniques, we can build powerful hybrid intelligent systems that can use the advantages that each technique offers. This book is intended to be a major reference tool and can be used as a textbook.

The structure, function, and pathologies of the human kidney -- simplified and explained A Doody's Core Title for 2011! 4 STAR DOODY'S REVIEW! "This seventh edition of a concise, well written book on renal physiology continues the legacy of
This book describes the latest advances in fuzzy logic, neural networks and optimization algorithms, as well as their hybrid combinations, and their applications in areas such as: intelligent control and robotics, pattern recognition, medical diagnosis, time series prediction, and optimization of complex problems. The book is divided into five main parts. The first part proposes new concepts and algorithms based on type-1 and type-2 fuzzy logic and their applications; the second explores new concepts and algorithms in neural networks and fuzzy logic applied to recognition. The third part examines the theory and practice of meta-heuristics in various areas of application, while the fourth highlights diverse applications of fuzzy logic, neural networks and hybrid intelligent systems in medical contexts. Finally, the fifth part focuses on applications of fuzzy logic, neural networks and meta-heuristics to robotics problems.

The Practice of Perioperative Transesophageal Echocardiography provides over 100 teaching cases ranging from the most...
common to the most challenging. Each case is succinctly presented in an easy-to-read question-answer, self-test format comprised of three printed pages of text and echo images. Echocardiography technique, interpretation, and case management are emphasized by internationally recognized experts in the field. The cases cover the gamut of clinical problems, as well as challenges related to image optimization and artifacts. The versatility of TEE is represented by 2-D, 3-D, color flow and spectral Doppler, tissue Doppler imaging, and quantitative assessments of volumes, pressures, and the severity of valvular pathologies. A companion website contains the fully searchable text plus echocardiographic video clips for each case.

Supernaturally gifted cocktail waitress Sookie Stackhouse heads for New Orleans, where she is forced to contend with her own family’s dark legacy and a variety of potentially lethal characters.

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