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# Editorial: Novel approaches in cardiac imaging

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## KEYWORDS

cardiac imaging, echocardiography, computed tomography, magnetic resonance, artificial intelligence-AI

## Editorial on the Research Topic Novel approaches in cardiac imaging

Over the past decade, advancements in cardiovascular imaging (1–3) have coincided with significant progress in diagnosing and treating various cardiac conditions (4–8). The implementation of speckle-tracking echocardiography now enables early detection of cardiac pathology while simultaneously reducing assessment variability between operators. Cardiac magnetic resonance has emerged as the gold-standard technique for non-invasively assessing biventricular dimensions, function, and myocardial tissue characteristics. Moreover, coronary computed tomography provides crucial information on plaque characteristics through non-invasive assessment of coronary arteries. Hybrid cardiac imaging combines various techniques and offers supplementary diagnostic and prognostic information. Last but not least, integrating artificial intelligence into modern cardiac imaging analysis promises a new frontier in diagnostic potential. Future technological advancements are expected to further emphasize the role of cardiovascular imaging in evaluating underlying pathophysiologic processes, thereby integrating pathophysiology, molecular medicine, and cardiovascular imaging.

This Special Issue delves into these significant aspects through 16 original research articles, an updated literature review, a systematic review and meta-analysis, and a case report. Here is a brief overview of these articles.

**Chen et al.** suggested a novel pipeline for labeling and imaging myocardial and vascular structures, which could be implemented in cardiac studies for examining heart structures at the single-cell level.

**Guo et al.** introduced a pioneering technology that combines diagnostic ultrasound with cyclic Arg-Gly-Asp-modified microbubbles targeting GP IIb/IIIa receptors. This approach can rapidly identify advanced atherosclerotic plaques and concurrently provide targeted therapy by dissolving activated and aggregated platelets.

**El-Saadi et al.** conducted a head-to-head comparison of myocardial strain using fast-strain encoding and feature tracking imaging in acute myocardial infarction. Both techniques exhibit acceptable agreement with two-dimensional echocardiography for longitudinal strain, with fast-strain encoding demonstrating higher sensitivity and specificity for detecting infarcted segments.

**Zhang et al.** evaluated left ventricular function in hypertrophic cardiomyopathy patients with preserved ejection fraction using left ventricular strain patterns derived by cardiac

# Approaches To The Novel

**Andrew J. Elliot**



## Approaches To The Novel:

*Middlemarch* Barbara Nathan Hardy, 1967      **Approaches to the Novel, Senior** South Australia. Education Department. Secondary English Curriculum Committee, 1974      Managing the Unknown Christoph H. Loch, Arnoud DeMeyer, Michael Pich, 2011-11-30 *Managing the Unknown* offers a new way of looking at the problem of managing projects in novel and unknown environments From Europe's leading business school this book shows how to manage two fundamental approaches that in combination offer the possibility of coping with unforeseen influences that inevitably arise in novel projects Trial and Error Learning allows for redefining the plan and the project as the project unfolds Selectionism pursues multiple independent trials in order to pick the best one at the end *Managing the Unknown* offers expert guidelines to the specific project mindsets infrastructures and management methods required to use these project management approaches and achieve success in spite of unforeseen obstacles This book equips readers with Causal explanations of why unforeseeable factors in novel projects make traditional project planning and project risk management insufficient Directly applicable management tools that help managers to guide novel and high uncertainty projects Real world case studies of both successful and unsuccessful approaches to managing high uncertainty in novel projects      **Handbook of Approach and Avoidance Motivation** Andrew J. Elliot, 2013-05-13 Of the many conceptual distinctions present in psychology today the approach avoidance distinction stands out as one of if not the most fundamental and basic The distinction between approach and avoidance motivation has a venerable history not only within but beyond scientific psychology and the deep utility of this distinction is clearly evident across theoretical traditions disciplines and content areas This volume is designed to illustrate and highlight the central importance of this distinction to serve as a one stop resource for scholars working in this area and to facilitate integration among researchers and theorists with an explicit or implicit interest in approach and avoidance motivation The main body of this volume is organized according to seven broad sections that represent core areas of interest in the study of approach and avoidance motivation including neurophysiology and neurobiology and evaluative processes Each section contains a minimum of four chapters that cover a specific aspect of approach and avoidance motivation The broad applicability of the approach avoidance distinction makes this *Handbook* an essential resource for researchers theorists and students of social psychology and related disciplines      *Chiral Separations and Stereochemical Elucidation* Quezia Bezerra Cass, Maria Elizabeth Tiritan, João Marcos Batista Junior, Juliana Cristina Barreiro, 2023-04-04 An expert resource for chemists using stereochemical analysis methods In *Chiral Separations and Stereochemical Elucidation* Fundamentals Methods and Applications a team of distinguished researchers delivers a robust and authoritative discussion of the theoretical fundamentals of chiral separation the most commonly used chiral selectors and stereochemical elucidation methods The book offers expert discussions of a variety of chiral separation methods by gas chromatography GC supercritical fluid chromatography SFC capillary electrophoresis CE and liquid chromatography LC The authors also describe several

methods for stereochemical elucidation including X ray crystallography nuclear magnetic resonance spectroscopy and chiroptical methods The explored material is ideal for practicing chemists seeking a resource to help them guide method development and optimization or to explain quality control complements during target compound production Readers will also find A thorough introduction to the most important advances and applications in LC GC CE SFC and preparative chromatography Comprehensive explorations of the role of 2D LC for chiral separation methods development and applications Practical discussions of the design mechanisms and applications of the most commonly used chiral selectors Fulsome treatments of the theoretical backgrounds advantages limitations and applications of stereochemical elucidation methods Perfect for academic and industrial chemists specially in organic analytical chemistry and pharmaceutical analysis Chiral Separations and Stereochemical Elucidation Fundamentals Methods and Applications will also benefit biochemists environmental analysts forensic and medicinal chemists as well as natural product chemists and those involved with stereochemistry or structural elucidation

### **Genetically Modified and other Innovative Vector Control Technologies**

Brij Kishore Tyagi,2022-01-01 This book comprehensively covers the latest development in developing and deploying the genetically modified vectors particularly Anopheles and Aedes mosquitoes responsible for transmitting malaria parasites and dengue viruses the most deadly and or debilitating among all the vector borne diseases It is considered timely and commensurate to bring about a book dealing with the various ecological biological and social as well as regulatory aspects for the deployment of genetically modified vectors in special context with the biosafety of humans his associates and the environment Written by an array of specialists and experts in various subjects of genetically modified organisms this book centrally addresses the i basic principles of the genetic manipulation of vectors and they are potential impact on human and the environment ii ecological biological ethical legal and social implications of the use of genetically modified vectors iii identification of potential hazards assessment and management of risks for human and environment risk benefit analysis iv principles and practices for the assessment and management of biosecurity and biosafety in laboratories and in the field v guiding principles for creation and management of institutional or national biosafety review boards and ethics review committees and vi development and application of a biosafety regulatory framework and its related legal principles at national levels for securing the development and use of vector control methods based on genetic modification strategies This publication will be useful to researchers scientists and professionals engaged in academic and research institutions government or non government as well as students in universities and medical colleges

*Hayes' Principles and Methods of Toxicology, Sixth Edition* A. Wallace Hayes,Claire L. Kruger,2014-10-10 Hayes Principles and Methods of Toxicology has long been established as a reliable reference to the concepts methodologies and assessments integral to toxicology The new sixth edition has been revised and updated while maintaining the same high standards that have made this volume a benchmark resource in the field With new authors and new chapters that address the advances and developments since the fifth edition

the book presents everything toxicologists and students need to know to understand hazards and mechanisms of toxicity enabling them to better assess risk The book begins with the four basic principles of toxicology dose matters people differ everything transforms and timing is crucial The contributors discuss various agents of toxicity including foodborne solvents crop protection chemicals radiation and plant and animal toxins They examine various methods for defining and measuring toxicity in a host of areas including genetics carcinogenicity toxicity in major body systems and the environment This new edition contains an expanded glossary reflecting significant changes in the field New topics in this edition include The importance of dose response Systems toxicology Food safety The humane use and care of animals Neurotoxicology The comprehensive coverage and clear writing style make this volume an invaluable text for students and a one stop reference for professionals

**Invertebrate Zoology** Bernd Schierwater,Rob DeSalle,2021-07-08 Invertebrate Zoology A Tree of Life Approach is a comprehensive and authoritative textbook adopting an explicitly phylogenetic organization Most of the classical anatomical and morphological work has not been changed it established the foundation of Invertebrate Zoology With the explosion of Next Generation Sequencing approaches there has been a sea change in the recognized phylogenetic relationships among and between invertebrate lineages In addition the merger of evolutionary and developmental biology evo devo has dramatically contributed to changes in the understanding of invertebrate biology Synthesizing these three approaches classical morphology sequencing data and evo devo studies offers students an entirely unique perspective of invertebrate diversity Key Features One of the first textbooks to combine classical morphological approaches and newer evo devo and Next Generation Sequencing approaches to address Invertebrate Zoology Organized along taxonomic lines in accord with the latest understanding of invertebrate phylogeny Will provide background in basic systematic analysis useful within any study of biodiversity A wealth of ancillary materials for students and teachers including downloadable figures lecture slides web links and phylogenetic data matrices

**Sustainable governance and management of food systems** Eija Vinnari,Markus Vinnari,2023-08-07 This book focuses on the role of governance and management in the food chain These methods are now especially important as the current food system has been found to inflict unsustainable environmental pressures on our planet These include but are not limited to greenhouse gas emissions biodiversity loss excessive water usage and problems with nutrition cycles In addition issues such as the treatment of farm animals has attracted considerable media and public attention from the ethical point of view Therefore the prominent questions discussed in this book are What are the most important ethical issues in our fisheries agriculture and food systems How should we govern food systems when sustainability is a key goal What kind of management tools are available for this purpose Who is responsible for making the agriculture and food system more sustainable

*Variation-Aware Analog Structural Synthesis* Trent McConaghy,Pieter Palmers,Gao Peng,Michiel Steyaert,Georges Gielen,2009-07-13 This book describes new tools for front end analog designers starting with global variation aware sizing and extending to novel variation aware topology design

The tools aid design through automation but more importantly they also aid designer insight through automation We now describe four design tasks each more general than the previous and how this book contributes design aids and insight aids to each The first designer task targeted is global robust sizing This task is supported by a design tool that does automated globally reliable variation aware sizing SANGRIA and an insight aiding tool that extracts designer interpretable whitebox models that relate sizings to circuit performance CAFFEINE SANGRIA searches on several levels of problem difficulty simultaneously from lower cheap to evaluate exploration layers to higher full evaluation exploitation layers structural homotopy SANGRIA makes maximal use of circuit simulations by performing scalable data mining on simulation results to choose new candidate designs CAFFEINE accomplishes its task by treating function induction as a tree search problem It constrains its tree search space via a canonical functional form grammar and searches the space with grammatically constrained genetic programming The second designer task is topology selection topology design Topology selection tools must consider a broad variety of topologies such that an appropriate topology is selected must easily adapt to new semiconductor process nodes and readily incorporate new topologies Topology design tools must allow designers to creatively explore new topology ideas as rapidly as possible

Inventive Computation and Information Technologies S. Smy,Valentina Emilia Balas,Khaled A. Kamel,Pavel Lafata,2021-03-27 This book is a collection of best selected papers presented at the International Conference on Inventive Computation and Information Technologies ICICIT 2020 organized during 24-25 September 2020 The book includes papers in the research area of information sciences and communication engineering The book presents novel and innovative research results in theory methodology and applications of communication engineering and information technologies

**Leslie Marmon Silko's Ceremony** Robert M. Nelson,2008 Leslie Marmon Silko's Ceremony The Recovery of Tradition is a study of the embedded texts that function as the formal and thematic backbone of Leslie Marmon Silko's 1977 novel Robert M Nelson identifies the Keresan and Navajo ethnographic pretexts that Silko reappropriates and analyzes the many ways these texts relate to the surrounding prose narrative

**Software for Dependable Systems** National Research Council,Division on Engineering and Physical Sciences,Computer Science and Telecommunications Board,Committee on Certifiably Dependable Software Systems,2007-08-14 The focus of Software for Dependable Systems is a set of fundamental principles that underlie software system dependability and that suggest a different approach to the development and assessment of dependable software Unfortunately it is difficult to assess the dependability of software The field of software engineering suffers from a pervasive lack of evidence about the incidence and severity of software failures about the dependability of existing software systems about the efficacy of existing and proposed development methods about the benefits of certification schemes and so on There are many anecdotal reports which although often useful for indicating areas of concern or highlighting promising avenues of research do little to establish a sound and complete basis for making policy decisions regarding dependability The committee regards claims of

extraordinary dependability that are sometimes made on this basis for the most critical of systems as unsubstantiated and perhaps irresponsible This difficulty regarding the lack of evidence for system dependability leads to two conclusions 1 that better evidence is needed so that approaches aimed at improving the dependability of software can be objectively assessed and 2 that for now the pursuit of dependability in software systems should focus on the construction and evaluation of evidence The committee also recognized the importance of adopting the practices that are already known and used by the best developers this report gives a sample of such practices Some of these such as systematic configuration management and automated regression testing are relatively easy to adopt others such as constructing hazard analyses and threat models exploiting formal notations when appropriate and applying static analysis to code will require new training for many developers However valuable though these practices are in themselves no silver bullet and new techniques and methods will be required in order to build future software systems to the level of dependability that will be required

**Brain Mapping: The Methods** Arthur W. Toga, John C. Mazziotta, 2002-09-25 The number of scientists and laboratories involved with brain mapping is increasing exponentially and the second edition of this comprehensive reference has also grown much larger than the first published in 1996 including for example five chapters on structural and functional MRI where the first

**Computer Vision - ECCV 2024** Aleš Leonardis, Elisa Ricci, Stefan Roth, Olga Russakovsky, Torsten Sattler, Gül Varol, 2024-11-25 The multi volume set of LNCS books with volume numbers 15059 up to 15147 constitutes the refereed proceedings of the 18th European Conference on Computer Vision ECCV 2024 held in Milan Italy during September 29 October 4 2024 The 2387 papers presented in these proceedings were carefully reviewed and selected from a total of 8585 submissions They deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction motion estimation

**Oxyfuel Combustion for Clean Energy Applications** Medhat A. Nemitallah, Mohamed A. Habib, Hassan M. Badr, 2019-02-11 This book aims to be the reference book in the area of oxyfuel combustion covering the fundamentals design considerations and current challenges in the field Its first part provides an overview of the greenhouse gas emission problem and the current carbon capture and sequestration technologies The second part introduces oxy fuel combustion technologies with emphasis on system efficiency combustion and emission characteristics applications and related challenges The third part focuses on the recent developments in ion transport membranes and their performance in both oxygen separation units and oxygen transport reactors OTRs The fourth part presents novel approaches for clean combustion in gas turbines and boilers Computational modelling and optimization of combustion in gas turbine combustors and boiler furnaces are presented in the fifth part with some numerical results and detailed analyses

**Hepatitis A: Pathogenesis, Clinical Perspectives, and Therapeutic Innovations** Dr. Spineanu Eugenia, 2025-03-12 Hepatitis A Pathogenesis Clinical Perspectives and Therapeutic

Innovations comprehensively explores the virology clinical manifestations and cutting edge treatments of Hepatitis A Delving into the virus s structure transmission dynamics and immune responses this treatise provides in depth insights into acute and chronic phases including rare complications like fulminant hepatitis It discusses current diagnostic approaches laboratory testing methodologies and imaging studies crucial for accurate diagnosis and patient management Highlighting advancements in antiviral therapies and supportive care strategies this work aims to inform healthcare professionals and researchers about the latest developments in Hepatitis A treatment With a focus on enhancing public health initiatives and optimizing patient outcomes this treatise serves as a valuable resource for understanding and combating Hepatitis A globally

Advances in Visual Computing George Bebis,Richard Boyle,Bahram Parvin,Darko Koracin,Fowlkes Charless,Wang Sen,Choi Min-Hyung,Stephan Mantler,Jurgen Schulze,Daniel Acevedo,Klaus Mueller,Michael Papka,2012-08-22 The two volume set LNCS 7431 and 7432 constitutes the refereed proceedings of the 8th International Symposium on Visual Computing ISVC 2012 held in Rethymnon Crete Greece in July 2012 The 68 revised full papers and 35 poster papers presented together with 45 special track papers were carefully reviewed and selected from more than 200 submissions The papers are organized in topical sections Part I LNCS 7431 comprises computational bioimaging computer graphics calibration and 3D vision object recognition illumination modeling and segmentation visualization 3D mapping modeling and surface reconstruction motion and tracking optimization for vision graphics and medical imaging HCI and recognition Part II LNCS 7432 comprises topics such as unconstrained biometrics advances and trends intelligent environments algorithms and applications applications virtual reality face processing and recognition *Proceedings of International Conference on Intelligent Vision and Computing (ICIVC 2022)* Harish Sharma,Apu Kumar Saha,Mukesh Prasad,2023-04-30 The conference proceedings book is a collection of high quality research articles in the field of intelligent vision and computing It also serves as a forum for researchers and practitioners from both academia and industry to meet and share their expertise and experience It provides opportunities for academicians and scientists along with professionals policymakers and practitioners from various fields in a global realm to present their research contributions and views on one forum and interact with members inside and outside their own particular disciplines **Introduction to Protein Mass Spectrometry** Pradip K.

Ghosh,2024-04-22 Introduction to Protein Mass Spectrometry Second Edition provides a comprehensive overview of this increasingly important yet complex analytical technique This book enables readers to understand how determinations about protein identity from mass spectrometric data are made Coverage begins with the technical basics including preparations instruments and spectrometric analysis of peptides and proteins before exploring applied use in biological applications bioinformatics database and software resources This new edition is fully updated to include the latest developments in the field and will feature new content covering recent progress in the areas where there have been the most exciting advances These include PNNL s multilevel PCB based SLIM realization SLIM Agilent QQQ field trials employment of SLIM IMS cryo IR

combination in molecular structure determination proximity labelling mass spectrometry and applications in neuroscience  
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