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LETICIA BEST

Formal Methods and Software Engineering
Springer

These proceedings reflect the main activities of the Paris Séminaire d'Algèbre 1989-1990, with a series of papers in Invariant Theory, Representation Theory and Combinatorics. It contains original works from J. Dixmier, F. Dumas, D. Krob, P. Pragacz and B.J. Schmid, as well as a new presentation of Derived Categories by J.E. Björk and as introduction to the deformation theory of Lie equations by J.F. Pommaret. J. Dixmier: Sur les invariants du groupe symétrique dans certaines représentations II.- B.J. Schmid: Finite groups and invariant theory.- J.E. Björk: Derived categories.- P. Pragacz: Algebro-Geometric applications of Schur S- and Q-polynomials.- F. Dumas: Sous-corps de fractions rationnelles des corps gauches de séries de Laurent.- D. Krob: Expressions rationnelles sur un anneau.- J.F. Pommaret: Deformation theory of algebraic and Geometric structures.- M. van den Bergh: Differential operators on semi-invariants for tori and weighted projective spaces.

Bibliotheca Britannica Springer Science & Business Media

The book is devoted to the new trends in random evolutions and their various applications to stochastic evolutionary systems (SES). Such new developments as the analogue of Dynkin's formulae, boundary value problems, stochastic stability and optimal control of random evolutions, stochastic evolutionary equations driven by martingale measures are considered. The book also contains such new trends in applied probability as stochastic models of financial and insurance mathematics in an incomplete market. In the famous classical financial mathematics Black-Scholes model of a (B,S) market for securities prices, which is used for the description of the evolution of bonds and stocks prices and also for their

derivatives, such as options, futures, forward contracts, etc., it is supposed that the dynamic of bonds and stocks prices are set by a linear differential and linear stochastic differential equations, respectively, with interest rate, appreciation rate and volatility such that they are predictable processes. Also, in the Arrow-Debreu economy, the securities prices which support a Radner dynamic equilibrium are a combination of an Ito process and a random point process, with the all coefficients and jumps being predictable processes.

Global Change and Mediterranean-Type Ecosystems Routledge

Proceedings of the Second World Conference, Paris, France, June 16-20, 1986

Handbook of Statistical Bioinformatics Springer Science & Business Media

As a spectroscopic method, Nuclear Magnetic Resonance (NMR) has seen spectacular growth over the past two decades, both as a technique and in its applications. Today the applications of NMR span a wide range of scientific disciplines, from physics to biology to medicine. Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive of the literature on this topic. This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications, in particular NMR of natural macromolecules which is covered in two reports: "NMR of Proteins and Acids" and "NMR of Carbohydrates, Lipids and Membranes". For those wanting to become rapidly acquainted with specific areas of NMR, this title provides unrivalled scope of coverage. Seasoned practitioners of NMR will find this an invaluable source of current methods and applications. Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research. Compiled by teams of leading authorities in the relevant subject areas, the series creates a unique service for the active

research chemist, with regular, in-depth accounts of progress in particular fields of chemistry. Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis.

Handbook of Gravitational Wave Astronomy Elsevier

François de Larrard is Scientific Director of the R&D centre of the LafargeHolcim group and Scientific Director of the French national project Recybéton. He formerly spent almost thirty years at IFSTTAR (formerly LCPC). He has been granted both the Robert l'Hermite medal and the G.H. Tattersall award by RILEM, and is author of two books, including Concrete Mixture-Proportioning which is also published by Taylor & Francis.

Concrete Recycling John Wiley & Sons

From the essential background physics and radiobiology to the latest imaging and treatment modalities, the updated second edition of Handbook of Radiotherapy Physics: Theory & Practice covers all aspects of the subject. In Volume 1, Part A includes the Interaction of Radiation with Matter (charged particles and photons) and the Fundamentals of Dosimetry with an extensive section on small-field physics. Part B covers Radiobiology with increased emphasis on hypofractionation. Part C describes Equipment for Imaging and Therapy including MR-guided linear accelerators. Part D on Dose Measurement includes chapters on ionisation chambers, solid-state detectors, film and gels, as well as a detailed description and explanation of Codes of Practice for Reference Dose Determination including detector correction factors in small fields. Part E describes the properties of Clinical (external) Beams. The various methods (or 'algorithms') for Computing Doses in Patients irradiated by photon, electron and proton beams are described in Part F with increased emphasis on Monte-Carlo-based and grid-based deterministic algorithms. In Volume 2, Part G covers all aspects of Treatment Planning including CT-, MR- and Radionuclide-based patient imaging,

Intensity-Modulated Photon Beams, Electron and Proton Beams, Stereotactic and Total Body Irradiation and the use of the dosimetric and radiobiological metrics TCP and NTCP for plan evaluation and optimisation. Quality Assurance fundamentals with application to equipment and processes are covered in Part H. Radionuclides, equipment and methods for Brachytherapy and Targeted Molecular Therapy are covered in Parts I and J, respectively. Finally, Part K is devoted to Radiation Protection of the public, staff and patients. Extensive tables of Physical Constants, Photon, Electron and Proton Interaction data, and typical Photon Beam and Radionuclide data are given in Part L. Edited by recognised authorities in the field, with individual chapters written by renowned specialists, this second edition of Handbook of Radiotherapy Physics provides the essential up-to-date theoretical and practical knowledge to deliver safe and effective radiotherapy. It will be of interest to clinical and research medical physicists, radiation oncologists, radiation technologists, PhD and Master's students.

Topics in Invariant Theory Рипол
Классик

A fully illustrated study of the Doric Temple of Athena at Assos, in modern Turkey. Bonna Daix Wescoat presents a complete inventory of the architecture and ornament, proposes a new reconstruction of the building, and situates the Temple within the formative development of monumental architecture in Archaic Greece.

Innovation Engineering Royal Society of Chemistry

The history of research on hog cholera (HC)/classical swine fever (CSF) can be roughly divided into three phases which are characterized by the methods available at the time for demonstrating the causative agent. Phase I covered the period before the viral etiology of HC was discovered by de Schweinitz and Dorset (1904)*. Thereafter (Phase II) the detection of HC virus (HCV) was accomplished by laborious, time-consuming and costly pig inoculation experiments. This explains the extensive search for methods not only for detection but also for accurate infectivity titration as well as for applicable serological techniques to solve urgent problems concerning the pathogenesis, diagnosis, epidemiology and prophylaxis of HC. It was not before the late fifties that HC research entered Phase III when fluorescent antibody techniques offered not only the means for detection and titration of HCV in porcine cell cultures but

also for more intensive research on hog cholera and its virus. And yet, there are a number of questions to be answered, e. g. on the genetic and antigenic relation of HCV to bovine viral diarrhoea (BVD) virus. There are indications that Phase IV of HC research will bear the stamp of biotechnology. In view of this development it appears appropriate to give an up-dating and summarizing account of HC/CSF including comparative aspects of infections caused by structurally related viruses. The editing of the present volume would have been impossible without the cooperation of several known scientists who instantly agreed when asked for contribution.

Molecular Structure of Human Chromosomes John Wiley & Sons
Formal methods for development of computer systems have been extensively studied over the years. A range of semantic theories, specification languages, design techniques, and verification methods and tools have been developed and applied to the construction of programs used in critical applications. The challenge now is to scale up formal methods and integrate them into engineering development processes for the correct and efficient construction and maintenance of computer systems in general. This requires us to improve the state of the art on approaches and techniques for integration of formal methods into industrial engineering practice, including new and emerging practice. The now long-established series of International Conferences on Formal Engineering Methods brings together those interested in the application of formal engineering methods to computer systems. Researchers and practitioners, from industry, academia, and government, are encouraged to attend and to help advance the state of the art. This volume contains the papers presented at ICFEM 2009, the 11th International Conference on Formal Engineering Methods, held during December 9–11, in Rio de Janeiro, Brazil.

Energy Research Abstracts CRC Press
This handbook provides an updated comprehensive description of gravitational wave astronomy. In the first part, it reviews gravitational wave experiments, from ground and space based laser interferometers to pulsar timing arrays and indirect detection from the cosmic microwave background. In the second part, it discusses a number of astrophysical and cosmological gravitational wave sources, including black holes, neutron stars, possible more exotic objects, and sources in the early Universe.

The third part of the book reviews the methods to calculate gravitational waveforms. The fourth and last part of the book covers techniques employed in gravitational wave astronomy data analysis. This book represents both a valuable resource for graduate students and an important reference for researchers in gravitational wave astronomy.

Applied Mechanics Reviews Springer
Nature

The study of the Neolithic transition constitutes a major theme in prehistoric research. The process of economic change, from foraging to farming, involved one of the main transformations in human behavior patterns. This volume focuses on investigating the neolithization process at the periphery of one of the main routes in the expansion of the Neolithic in Europe: the Western Mediterranean region. Recent advances in radiocarbon dating, mathematical and computational models, archaeometric analysis and biomolecular techniques, together with new archaeological discoveries, provide novel insights into this topic. This volume is organized into five sections: · new discoveries and new ideas about the Mediterranean Neolithic · reconstructing times and modeling processes · landscape interaction: farming and herding · dietary subsistence of early farming communities · human dispersal mechanisms and cultural transmission This volume will also provide new empirical data to help readers assess different theoretical frameworks and narratives which underlie the models proposed to explain the expansion of farming from the Middle East into Europe. **The Trypanosomiases** Frontiers Media SA
The theme of the 2010 PCMI Summer School was Mathematics in Image Processing in a broad sense, including mathematical theory, analysis, computation algorithms and applications. In image processing, information needs to be processed, extracted and analyzed from visual content, such as photographs or videos. These demands include standard tasks such as compression and denoising, as well as high-level understanding and analysis, such as recognition and classification. Centered on the theme of mathematics in image processing, the summer school covered quite a wide spectrum of topics in this field. The summer school is particularly timely and exciting due to the very recent advances and developments in the mathematical theory and computational methods for sparse representation. This volume collects three self-contained lecture series. The topics are multi-

resolution based wavelet frames and applications to image processing, sparse and redundant representation modeling of images and simulation of elasticity, biomechanics, and virtual surgery. Recent advances in image processing, compressed sensing and sparse representation are discussed.

Handbook of Radiotherapy Physics
Springer Science & Business Media

This monograph provides a self-contained and comprehensive account of the most significant existence results obtained over the past two decades referring to some remarkable classes of ill-posed problems governed by non-accretive operators. All the results are derived from several compactness arguments, due mainly to the author, and are suitably illustrated by examples arising from various concrete problems - for example, nonlinear diffusion, heat conduction in materials with memory, fluid dynamics, and vibrations of a string with memory. Reference is made to optimal control theory in order to emphasize the degree of applicability of abstract compactness methods. Special attention is paid to multivalued perturbations of m -accretive operators; this case is analyzed under appropriate assumptions in order to allow the use of the general results in the study of some specific problems of great practical interest: reaction-diffusion and closed loop systems. Some biographical comments and open problems are also included. This new edition contains a number of improvements, corrections and insertions which both simplify and update the material. The book will be of interest to graduate students and specialists working in abstract evolution equations, partial differential equations, reaction-diffusion systems and ill-posed problems. A knowledge of topology, functional analysis and ordinary differential equations to undergraduate level is assumed.

Index to Foreign Scientific Periodicals Contained in the Patent Office Library
Springer

Now in its second edition, this handbook collects authoritative contributions on modern methods and tools in statistical bioinformatics with a focus on the interface between computational statistics and cutting-edge developments in computational biology. The three parts of the book cover statistical methods for single-cell analysis, network analysis, and systems biology, with contributions by leading experts addressing key topics in probabilistic and statistical modeling and the analysis of massive data sets generated by modern biotechnology. This

handbook will serve as a useful reference source for students, researchers and practitioners in statistics, computer science and biological and biomedical research, who are interested in the latest developments in computational statistics as applied to computational biology.

Texts of Symposia: Symposia; Presentation list; Author index Firenze University Press

For millenia, urban networks have shaped the development of human societies. Today, new archaeological approaches are unveiling the evolution of these networks in unprecedented detail. *Urban Networks Evolutions* reviews the new approaches to urban evolution as archaeology endeavours to characterise both the scale and pace of historical events and processes. Issuing from the work of the Danish National Research Foundation's Centre of Excellence, the Centre for Urban Network Evolutions (UrbNet), the book compares the archaeology of urbanism from medieval Northern Europe to the Ancient Mediterranean and the Indian Ocean World. The 40 contributors demonstrate how new techniques for refining archaeological dates, contexts, and the provenance ascribed to material culture, afford a new high-definition approach to the study of global and interregional dynamics. This opens up for far-reaching questions as to how and to what extent urban networks catalysed societal and environmental expansions and crises in the past.

Neutron Radiography Springer Science & Business Media

Molecular Structure of Human Chromosomes is an authoritative guide to genetics, focusing on human genome. This reference compiles contributions covering available knowledge on human genome structure and organization, which the previous researches fail to encompass. This text provides a comprehensive discussion of cytogenetic techniques, emphasizing their application to human genome studies and examinations. The book is divided into nine chapters. It explains the molecular organization and function of the human genome and the DNA sequences in man. It also discusses the localization of human gene by in situ hybridization and the approaches to gene mapping. The book describes the structure of the chromosomes and the trends in chromosome techniques; banding and polymorphism; and repetitive DNA and primate evolution. Various practitioners in genetics and biology will find this book a good reference. Students and novices in these fields will also find this book an excellent guide.

Geological Survey Bulletin CABI

The 8th International Symposium "Monitoring of Mediterranean Coastal Areas. Problems and Measurements Techniques" was organized by CNR-IBE in collaboration with FCS Foundation, and Natural History Museum of the Mediterranean and under the patronage of University of Florence, Accademia dei Geografi, Tuscany Region and Livorno Province. It is the occasion in which scholars can illustrate and exchange their activities and innovative proposals, with common aims to promote actions to preserve coastal marine environment. Considering Symposium interdisciplinary nature, the Scientific Committee, underlining this holistic view of Nature, decided to celebrate Alexander von Humboldt; a nature scholar that proposed the organic and inorganic nature's aspects as a single system. It represents a sign of continuity considering that in-presence Symposium could not be carried out due to the COVID-19 pandemic restrictions.

Subjects are related to coastal topics: morphology; flora and fauna; energy production; management and integrated protection; geography and landscape, cultural heritage and environmental assets, legal and economic aspects.

Compactness Methods for Nonlinear Evolutions American Mathematical Soc.

This state-of-the-art reference book includes comprehensive coverage of the biology and control of African, Asian and South American trypanosomiasis ("sleeping sickness") in man and animals. It describes recent research developments in the biology and molecular biology of trypanosomes (the protozoan parasite) and their vectors, and methods in diagnosis and control, such as trapping tsetse fly vectors. Different sections of the book are devoted to biology of trypanosomes, vector biology, epidemiology and diagnosis, pathogenesis, disease impact, chemotherapy and disease control, and vector control. The book contains contributions from leading experts from Europe, North and South America, and Africa.

Histoire De France Contemporaine Depuis La R?volution Jusqu'? La Paix De 1919
Aarhus Universitetsforlag

This title explores the issue of innovation engineering, a feature that is essential to the continuation of growth and development in the commercial world. Discussion is divided into three parts: Part I covers the historical basis of innovation, noting that diversity rests upon a duality between concepts in theory and applications put into practice, as well as discussing how innovation has resulted

from the interaction of numerous factors, be they societal, human, managerial, organization or technological. Part II focuses on practical applications - the technologies, tools and methods employed in putting theoretical innovation into practice - while Part III looks at what

factors underpin success, discussing the social and psychological aspects involved in successful innovation engineering. Consideration is also given to recent developments and systems which will assist in ensuring the continuation of this

process in the future.

Current List of Medical Literature Springer
Includes section, "Recent book acquisitions" (varies: Recent United States publications) formerly published separately by the U.S. Army Medical Library.