

Distance Geometry Theory Methods And Applications

Multidisciplinary Computational Intelligence Techniques: Applications in Business, Engineering, and Medicine
Mathematical Methods with Applications
Time Delay Systems: Methods, Applications and New Trends
Metagenomics: Techniques, Applications, Challenges and Opportunities
Applied Mechanics Reviews
Scientific and Technical Aerospace Reports
Parallel Numerical Computation with Applications
3D Printing Technology for Water Treatment Applications
Application of Probabilistic Methods for the Safety Assessment and the Reliable Operation of Research Reactors
Distributed Optimization and Statistical Learning Via the Alternating Direction Method of Multipliers
Ali, Shawkat Matiur Rahman Rifat Sipahi Reena Singh Chopra Laurence Tianruo Yang Jitendra Kumar Pandey IAEA Stephen Boyd
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this book explores the complex world of computational intelligence which utilizes computational methodologies such as fuzzy logic systems neural networks and evolutionary computation for the purpose of managing and using data effectively to address complicated real world problems

this volume is concerned with the control and dynamics of time delay systems a research field with at least six decade long history that has been very active especially in the past two decades in parallel to the new

challenges emerging from engineering physics mathematics and economics the volume covers several new directions including topology induced stability large scale interconnected systems roles of networks in stability and new trends in predictor based control and consensus dynamics the associated applications problems are described by highly complex models and require solving inverse problems as well as the development of new theories mathematical tools numerically tractable algorithms for real time control the volume which is targeted to present these developments in this rapidly evolving field captures a careful selection of the most recent papers contributed by experts and collected under five parts i methodology from retarded to neutral continuous delay models ii systems signals and applications iii numerical methods iv predictor based control and compensation and v networked control systems and multi agent systems

this book summarizes the various areas of research in metagenomics and their potential applications in medicine the environment and biotechnology the book presents the recent advances in theoretical methodological and applied aspects of metagenomics and highlights their applications in the fields of environmental microbial forensics bioremediation drug discovery and agriculture in addition the book discusses various metagenomics approaches used for understanding the microbial physiology and biochemistry lastly the book describes a range of bioinformatics tools and computational methods for metagenomics analysis as well as the functional diversity and dynamics of microbial communities colonizing the human skin

lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the nasa scientific and technical information database

parallel numerical computations with applications contains selected edited papers presented at the 1998 frontiers of parallel numerical computations and applications workshop along with invited papers from leading researchers around the world these papers cover a broad spectrum of topics on parallel numerical computation with applications such as advanced parallel numerical and computational optimization methods novel parallel computing techniques numerical fluid mechanics and other applications related to material sciences signal and image processing semiconductor technology and electronic circuits and systems design this state of the art volume will be an up to date resource for researchers in the areas of parallel and distributed computing

3d printing technology for water treatment applications provides a state of the art presentation on the application of 3d printing technology in water treatment the book discusses numerous processes and their scope for improvement through the use of 3d printing technology including pollutant separation from water and an overview of the advantages and disadvantages of different 3d printed technology over current technologies in addition the future outlook for device development using 3d printing water purification is explored finally sustainability issues relating to 3d printing based water purification processes are discussed describing specific technologies such as 3d printed membranes this book will serve as a vital resource for scientists engineers and environmental professionals working in water treatment technologies takes an in depth look at state of the art water treatment methods includes discussion of the application of 3d printed devices in areas such as water treatment resource recovery and toxic ion removal looks at current developments in the integration of adsorption technology with 3d printing technology

probabilistic methods are increasingly being used to complement deterministic methods in assessing the safety and ensuring the reliability of research reactors addressing features specific to research reactors this publication suggests a practical approach for the development and implementation of a project using probabilistic methods in terms of objective scope data and modelling as well as the application of results to enhance safety and reliability this publication is intended to be used by operating organizations regulatory bodies and technical support organizations when performing or reviewing research reactor assessments in which probabilistic methods are applied it will ideally be read in conjunction with relevant iaea safety standards series publications and technical guidelines for safety analysis operation and maintenance and component reliability data for research reactors

surveys the theory and history of the alternating direction method of multipliers and discusses its applications to a wide variety of statistical and machine learning problems of recent interest including the lasso sparse logistic regression basis pursuit covariance selection support vector machines and many others

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