

Discrete Applied Mathematics Journal

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Combinatorial mathematics in Malta and a conference

Daniel Dickler, Theodore Spradlin, and Dr. Xiaoming Wang provided invaluable data services and smoothing analysis using Kamakura Risk Manager. The author also wishes to thank the participants at ...

A 12-Factor Heath, Jarrow, And Morton Stochastic Volatility Model For A 13-Country 'World ' Term Structure Model, Using Daily Data From January 1, 1962 Through September 30, 2021

The reconstruction conjecture on edge ideals, with Kia Dalili and Will Traves, Discrete Mathematics ... Notes in Pure and Applied Mathematics, volume 244, 85--114 (2005). Cohen-Macaulay properties of ...

Department of Mathematics & Statistics

G. Gutin and A.P. Punnen (editors) Variations of the Traveling salesman problem, Special issue of Discrete Optimization Elsevier 2005. A.P. Punnen and P. Sharma (editors) Combinatorial Optimization, ...

Abraham P. Punnen

Dr. Farber received a Postdoctoral Degree in Bioengineering and Applied Mathematics at the ... and synthesis of spatial mechanisms; discrete mathematics models for synthesis elements of ...

Dr. Boris Farber selected as Top Innovation Expert in STEM, Education, Homeschooling, & Molecular Biotechnology by IAOTP

Charlotte Trainor did her honours undergraduate degree in Mathematics at SFU. She completed her thesis on algebraic geometry and discrete math ... Leung did project work that applied what she learned ...

Featured Alumni

an M.S. in Applied Mathematics in 2008, and a B.A. in Discrete Mathematics in 2006 from the University of Nevada, Reno. Her Ph.D. work in mathematics education was recognized with the outstanding ...

Diana Moss

Studies in Applied Mathematics, Vol.137, (2016), pp 502-546. Selected in the journal's "Highlights of the Year 2016 ... Dynamics of Continuous, Discrete and Impulsive Systems, Series A: Mathematical ...

Long Lee

To appear in Advances in Mathematics (2013 ... Andrew J. Blumberg. A discrete model for S1-equivariant homotopy theory. Journal of Pure and Applied Algebra Journal of Pure and Applied Algebra 210 ...

Andrew J Blumberg

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2020, Stochastic Perturbation Optimization for discrete-continuous inverse problems ... and petrophysical properties, Journal of Applied Geophysics, published online. Grana D., Fjeldstad T., and Omre ...

Dr. Dario Grana

Mimoza Polloshka joined RIT Kosovo (A.U.K) in November 2003, and since then she taught several courses of Mathematics, including College Math, Interdisciplinary Math I, Interdisciplinary Math II, ...

Faculty Profile - Mimoza Polloshka Ph.D.

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A new Earth bombardment model

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Discrete Applied Mathematics

This volume contains papers demonstrating the variety and richness of computational problems motivated by molecular biology. The application areas within biology that give rise to the problems studied in these papers include solid molecular modeling, sequence comparison, phylogeny, evolution, mapping, DNA chips, protein folding and 2D gel technology. The mathematical techniques used are algorithmics, combinatorics, optimization, probability, graph theory, complexity and applied mathematics. This is the fourth volume in the Discrete Applied Mathematics series on computational molecular biology, which is devoted to combinatorial and algorithmic techniques in computational molecular biology. This series publishes novel research results on the mathematical and algorithmic foundations of the inherently discrete aspects of computational biology. Key features: . protein folding . phylogenetic inference . 2-dimensional gel analysis . graphical models for sequencing by hybridisation . dynamic visualization of molecular surfaces . problems and algorithms in sequence alignment This book is a reprint of Discrete Applied Mathematics Volume 127, Number 1.

This book constitutes the proceedings of the 6th International Conference on Algorithms and Discrete Applied Mathematics, CALDAM 2020, held in Hyderabad, India, in February 2020. The 38 papers presented together with 2 invited talks in this volume were carefully reviewed and selected from 102 submissions. The papers are organized in topical sections on graph algorithms, graph theory, combinatorial optimization, distributed algorithms, combinatorial algorithms, and computational complexity.

This book constitutes the proceedings of the 7th International Conference on Algorithms and Discrete Applied Mathematics, CALDAM 2021, which was held in Rupnagar, India, during February 11-13, 2021. The 39 papers presented in this volume were carefully reviewed and selected from 82 submissions. The papers were organized in topical sections named: approximation algorithms; parameterized algorithms; computational geometry; graph theory; combinatorics and algorithms; graph algorithms; and computational complexity.

This book constitutes the proceedings of the Third International Conference on Algorithms and Discrete Applied Mathematics, CALDAM 2017, held in Goa, India, in February 2017. The 32 papers presented in this volume were carefully reviewed and selected from 103 submissions. They deal with the following areas: algorithms, graph theory, codes, polyhedral combinatorics, computational geometry, and discrete geometry.

Focusing on a very active area of mathematical research in the last decade, Combinatorics of Set Partitions presents methods used in the combinatorics of pattern avoidance and pattern enumeration in set partitions. Designed for students and researchers in discrete mathematics, the book is a one-stop reference on the results and research activities of set partitions from 1500 A.D. to today. Each chapter gives historical perspectives and contrasts different approaches, including generating functions, kernel method, block decomposition method, generating tree, and Wilf equivalences. Methods and definitions are illustrated with worked examples and MapleTM code. End-of-chapter problems often draw on data from published papers and the author ' s extensive research in this field. The text also explores research directions that extend the results discussed. C++ programs and output tables are listed in the appendices and available for download on the author ' s web page.

Focusing on a very active area of mathematical research in the last decade, Combinatorics of Set Partitions presents methods used in the combinatorics of pattern avoidance and pattern enumeration in set partitions. Designed for students and researchers in discrete mathematics, the book is a one-stop reference on the results and research activities

RC4 Stream Cipher and Its Variants is the first book to fully cover the popular software stream cipher RC4. With extensive expertise in stream cipher cryptanalysis and RC4 research, the authors focus on the analysis and design issues of RC4. They also explore variants of RC4 and the eSTREAM finalist HC-128. After an introduction to the vast field of cryptology, the book reviews hardware and software stream ciphers and describes RC4. It presents a theoretical analysis of RC4 KSA, discussing biases of the permutation bytes toward secret key bytes and absolute values. The text explains how to reconstruct the secret key from known state information and analyzes the RC4 PRGA in detail, including a sketch of state recovery attacks. The book then describes three popular attacks on RC4: distinguishing attacks, Wired Equivalent Privacy (WEP) protocol attacks, and fault attacks. The authors also compare the advantages and disadvantages of several variants of RC4 and examine stream cipher HC-128, which is the next level of evolution after RC4 in the software stream cipher paradigm. The final chapter emphasizes the safe use of RC4. With open research problems in each chapter, this book offers a complete account of the most current research on RC4.

This book gives an introduction to the practical treatment of inverse problems by means of numerical methods, with a focus on basic mathematical and computational aspects. To solve inverse problems, we demonstrate that insight about them goes hand in hand with algorithms.

Advances in discrete mathematics are presented in this book with applications in theoretical mathematics and interdisciplinary research. Each chapter presents new methods and techniques by leading experts. Unifying interdisciplinary applications, problems, and approaches of discrete mathematics, this book connects topics in graph theory, combinatorics, number theory, cryptography, dynamical systems, finance, optimization, and game theory. Graduate students and researchers in optimization, mathematics, computer science, economics, and physics will find the wide range of interdisciplinary topics, methods, and applications covered in this book engaging and useful.

This book constitutes the thoroughly refereed post-conference proceedings of the 6th International Symposium on Combinatorial Optimization, ISCO 2020, which was due to be held in Montreal, Canada, in May 2020. The conference was held virtually due to the COVID-19 pandemic. The 24 revised full papers presented in this book were carefully reviewed and selected from 66 submissions. They were organized in the following topical sections: polyhedral combinatorics; integer programming; scheduling; matching; Network Design; Heuristics.

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