



Persistence Theory: From Quiver Representations to Data Analysis

Steve Y. Oudot



American Mathematical Society

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Emilie Sanchez



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Persistence Theory: From Quiver Representations to Data Analysis Steve Y. Oudot, 2017-05-17 Persistence theory emerged in the early 2000s as a new theory in the area of applied and computational topology This book provides a broad and modern view of the subject including its algebraic topological and algorithmic aspects It also elaborates on applications in data analysis The level of detail of the exposition has been set so as to keep a survey style while providing sufficient insights into the proofs so the reader can understand the mechanisms at work The book is organized into three parts The first part is dedicated to the foundations of persistence and emphasizes its connection to quiver representation theory The second part focuses on its connection to applications through a few selected topics The third part provides perspectives for both the theory and its applications The book can be used as a text for a course on applied topology or data analysis

Computational Topology for Data Analysis Tamal Krishna Dey, Yusu Wang, 2022-03-10 This book provides a computational and algorithmic foundation for techniques in topological data analysis with examples and exercises

Topological Dynamics and Topological Data Analysis Robert L. Devaney, Kit C. Chan, P.B. Vinod Kumar, 2021-09-23 This book collects select papers presented at the International Workshop and Conference on Topology Applications held in Kochi India from 9-11 December 2018 The book discusses topics on topological dynamical systems and topological data analysis Topics are ranging from general topology algebraic topology differential topology fuzzy topology topological dynamical systems topological groups linear dynamics dynamics of operator network topology iterated function systems and applications of topology All contributing authors are eminent academicians scientists researchers and scholars in their respective fields hailing from around the world The book is a valuable resource for researchers scientists and engineers from both academia and industry

Research in Computational Topology Erin Wolf Chambers, Brittany Terese Fasy, Lori Ziegelmeier, 2018-07-30 Based on the first Workshop for Women in Computational Topology that took place in 2016 this volume assembles new research and applications in computational topology Featured articles range over the breadth of the discipline including topics such as surface reconstruction topological data analysis persistent homology algorithms and surface embedded graphs Applications in graphics medical imaging and GIS are discussed throughout the book Four of the papers in this volume are the product of working groups that were established and developed during the workshop Additional papers were also solicited from the broader Women in Computational Topology network The volume is accessible to a broad range of researchers both within the field of computational topology and in related disciplines such as statistics computational biology and machine learning

Large-Scale Annotation of Biomedical Data and Expert Label Synthesis and Hardware Aware Learning for Medical Imaging and Computer Assisted Intervention Luping Zhou, Nicholas Heller, Yiyu Shi, Yiming Xiao, Raphael Sznitman, Veronika Cheplygina, Diana Mateus, Emanuele Trucco, X. Sharon Hu, Danny Chen, Matthieu Chabanas, Hassan Rivaz, Ingerid Reinertsen, 2019-11-20 This book constitutes the refereed joint proceedings of the 4th

International Workshop on Large Scale Annotation of Biomedical Data and Expert Label Synthesis LABELS 2019 the First International Workshop on Hardware Aware Learning for Medical Imaging and Computer Assisted Intervention HAL MICCAI 2019 and the Second International Workshop on Correction of Brainshift with Intra Operative Ultrasound CuRIOUS 2019 held in conjunction with the 22nd International Conference on Medical Imaging and Computer Assisted Intervention MICCAI 2019 in Shenzhen China in October 2019 The 8 papers presented at LABELS 2019 the 5 papers presented at HAL MICCAI 2019 and the 3 papers presented at CuRIOUS 2019 were carefully reviewed and selected from numerous submissions The LABELS papers present a variety of approaches for dealing with a limited number of labels from semi supervised learning to crowdsourcing The HAL MICCAI papers cover a wide set of hardware applications in medical problems including medical image segmentation electron tomography pneumonia detection etc The CuRIOUS papers provide a snapshot of the current progress in the field through extended discussions and provide researchers an opportunity to characterize their image registration methods on newly released standardized datasets of iUS guided brain tumor resection

Topology in Real-World Machine Learning and Data Analysis Kathryn Hess,Frédéric Chazal,Umberto Lupo,2022-11-07

Discrete Morse Theory Nicholas A. Scoville,2019-09-27 Discrete Morse theory is a powerful tool combining ideas in both topology and combinatorics Invented by Robin Forman in the mid 1990s discrete Morse theory is a combinatorial analogue of Marston Morse s classical Morse theory Its applications are vast including applications to topological data analysis combinatorics and computer science This book the first one devoted solely to discrete Morse theory serves as an introduction to the subject Since the book restricts the study of discrete Morse theory to abstract simplicial complexes a course in mathematical proof writing is the only prerequisite needed Topics covered include simplicial complexes simple homotopy collapsibility gradient vector fields Hasse diagrams simplicial homology persistent homology discrete Morse inequalities the Morse complex discrete Morse homology and strong discrete Morse functions Students of computer science will also find the book beneficial as it includes topics such as Boolean functions evasiveness and has a chapter devoted to some computational aspects of discrete Morse theory The book is appropriate for a course in discrete Morse theory a supplemental text to a course in algebraic topology or topological combinatorics or an independent study

Geometric and Topological Inference Jean-Daniel Boissonnat,Frédéric Chazal,Mariette Yvinec,2018-09-27 A rigorous introduction to geometric and topological inference for anyone interested in a geometric approach to data science

An Invitation to Computational Homotopy Graham Ellis,2019 An Invitation to Computational Homotopy is an introduction to elementary algebraic topology for those with an interest in computers and computer programming It expertly illustrates how the basics of the subject can be implemented on a computer through its focus on fully worked examples designed to develop problem solving techniques The transition from basic theory to practical computation raises a range of non trivial algorithmic issues which will appeal to readers already familiar with basic theory and who are interested in developing computational aspects The book covers a

subset of standard introductory material on fundamental groups covering spaces homology cohomology and classifying spaces as well as some less standard material on crossed modules These topics are covered in a way that hints at potential applications of topology in areas of computer science and engineering outside the usual territory of pure mathematics and also in a way that demonstrates how computers can be used to perform explicit calculations within the domain of pure algebraic topology itself The initial chapters include in depth examples from data mining biology and digital image analysis while the later chapters cover a range of computational examples on the cohomology of classifying spaces that are likely beyond the reach of a purely paper and pen approach to the subject An Invitation to Computational Homotopy serves as a self contained and informal introduction to these topics and their implementation in the sphere of computer science Written in a dynamic and engaging style it skilfully showcases a range of useful machine computations and will serve as an invaluable aid to graduate students working with algebraic topology *Contributions to Persistence Theory* Dong Du, 2012 Chapters 3 and Chapter 4 are preceded by background materials Chapter 2 where the concepts of algebraic topology used in this paper are defined

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