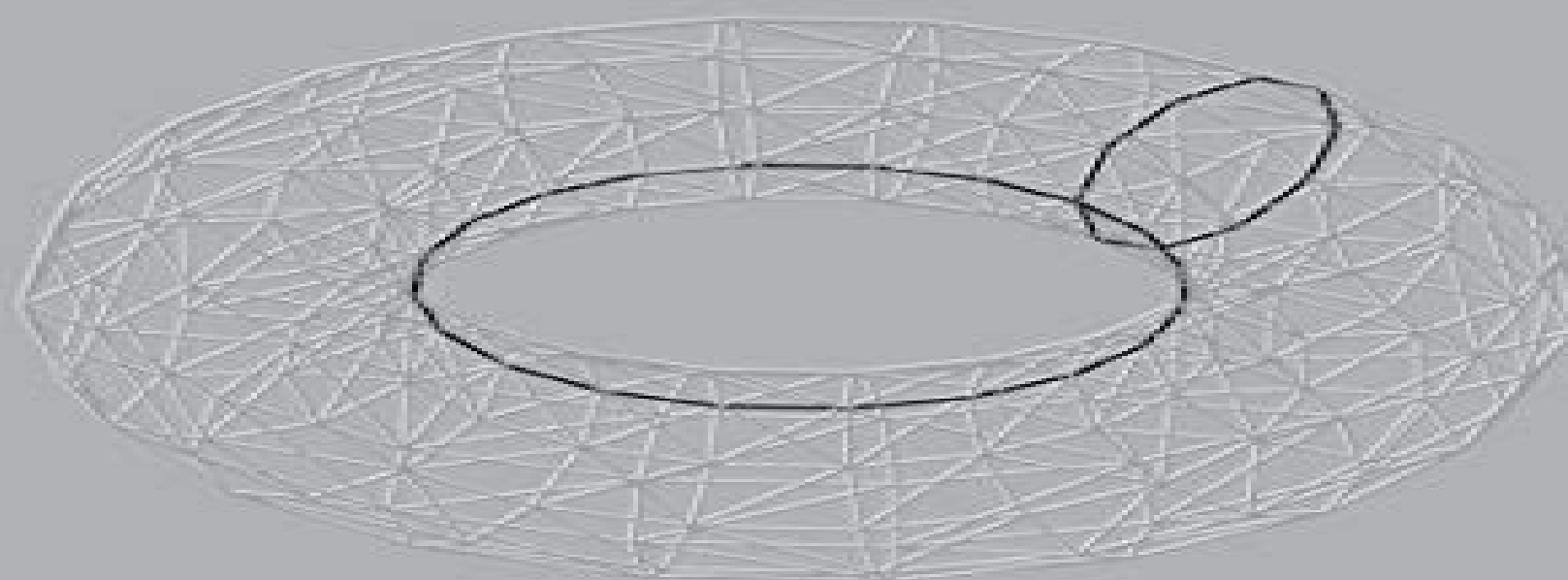


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# Topology for Computing

Afra J. Zomorodian



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**James F. Peters**



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**Topology for Computing** Afra J. Zomorodian, 2005-01-10 The emerging field of computational topology utilizes theory from topology and the power of computing to solve problems in diverse fields Recent applications include computer graphics computer aided design CAD and structural biology all of which involve understanding the intrinsic shape of some real or abstract space A primary goal of this book is to present basic concepts from topology and Morse theory to enable a non specialist to grasp and participate in current research in computational topology The author gives a self contained presentation of the mathematical concepts from a computer scientist s point of view combining point set topology algebraic topology group theory differential manifolds and Morse theory He also presents some recent advances in the area including topological persistence and hierarchical Morse complexes Throughout the focus is on computational challenges and on presenting algorithms and data structures when appropriate

**Computational Topology for Biomedical Image and Data Analysis** Rodrigo Rojas Moraleda, Nektarios Valous, Wei Xiong, Niels Halama, 2019-07-12 This book provides an accessible yet rigorous introduction to topology and homology focused on the simplicial space It presents a compact pipeline from the foundations of topology to biomedical applications It will be of interest to medical physicists computer scientists and engineers as well as undergraduate and graduate students interested in this topic Features Presents a practical guide to algebraic topology as well as persistence homology Contains application examples in the field of biomedicine including the analysis of histological images and point cloud data

**Computational Neuroanatomy** Moo K. Chung, 2012-09-05 Computational neuroanatomy is an emerging field that utilizes various non invasive brain imaging modalities such as MRI and DTI in quantifying the spatiotemporal dynamics of the human brain structures in both normal and clinical populations This discipline emerged about twenty years ago and has made substantial progress in the past decade The main goals of this book are to provide an overview of various mathematical statistical and computational methodologies used in the field to a wide range of researchers and students and to address important yet technically challenging topics in further detail

**Combinatorial Algebraic Topology** Dmitry Kozlov, 2008-01-08 This volume is the first comprehensive treatment of combinatorial algebraic topology in book form The first part of the book constitutes a swift walk through the main tools of algebraic topology Readers graduate students and working mathematicians alike will probably find particularly useful the second part which contains an in depth discussion of the major research techniques of combinatorial algebraic topology Although applications are sprinkled throughout the second part they are principal focus of the third part which is entirely devoted to developing the topological structure theory for graph homomorphisms

**Advances in Applied and Computational Topology** American Mathematical Society. Short Course on Computational Topology, 2012-07-05 What is the shape of data How do we describe flows Can we count by integrating How do we plan with uncertainty What is the most compact representation These questions while unrelated become similar when recast into a computational setting Our input

is a set of finite discrete noisy samples that describes an abstract space Our goal is to compute qualitative features of the unknown space It turns out that topology is sufficiently tolerant to provide us with robust tools This volume is based on lectures delivered at the 2011 AMS Short Course on Computational Topology held January 4-5 2011 in New Orleans Louisiana The aim of the volume is to provide a broad introduction to recent techniques from applied and computational topology Afra Zomorodian focuses on topological data analysis via efficient construction of combinatorial structures and recent theories of persistence Marian Mrozek analyzes asymptotic behavior of dynamical systems via efficient computation of cubical homology Justin Curry Robert Ghrist and Michael Robinson present Euler Calculus an integral calculus based on the Euler characteristic and apply it to sensor and network data aggregation Michael Erdmann explores the relationship of topology planning and probability with the strategy complex Jeff Erickson surveys algorithms and hardness results for topological optimization problems

Geometry and Topology for Mesh Generation Herbert Edelsbrunner, 2001-05-28 The book combines topics in mathematics geometry and topology computer science algorithms and engineering mesh generation The original motivation for these topics was the difficulty faced both conceptually and in the technical execution in any attempt to combine elements of combinatorial and of numerical algorithms Mesh generation is a topic where a meaningful combination of these different approaches to problem solving is inevitable The book develops methods from both areas that are amenable to combination and explains recent breakthrough solutions to meshing that fit into this category The book should be an ideal graduate text for courses on mesh generation The specific material is selected giving preference to topics that are elementary attractive lend themselves to teaching useful and interesting

Algorithms and Theory of Computation Handbook, Volume 2 Mikhail J. Atallah, Marina Blanton, 2009-11-20 Algorithms and Theory of Computation Handbook Second Edition Special Topics and Techniques provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems Along with updating and revising many of

*Brain Network Analysis* Moo K. Chung, 2019-06-27 This coherent mathematical and statistical approach aimed at graduate students incorporates regression and topology as well as graph theory

**IUTAM Symposium on Topological Design Optimization of Structures, Machines and Materials** Martin Philip Bendsoe, Niels Olhoff, Ole Sigmund, 2006-10-03 This volume offers edited papers presented at the IUTAM Symposium Topological design optimization of structures machines and materials status and perspectives October 2005 The papers cover the application of topological design optimization to fluid solid interaction problems acoustics problems and to problems in biomechanics as well as to other multiphysics problems Also in focus are new basic modelling paradigms covering new geometry modelling such as level set methods and topological derivatives

**Computational Geometry, Topology and Physics of Digital Images with Applications** James F. Peters, 2019-10-03 This book discusses the computational geometry topology and physics of digital images and video frame sequences This trio of computational approaches encompasses the

study of shape complexes optical vortex nerves and proximities embedded in triangulated video frames and single images while computational geometry focuses on the geometric structures that infuse triangulated visual scenes The book first addresses the topology of cellular complexes to provide a basis for an introductory study of the computational topology of visual scenes exploring the fabric shapes and structures typically found in visual scenes The book then examines the inherent geometry and topology of visual scenes and the fine structure of light and light caustics of visual scenes which bring into play catastrophe theory and the appearance of light caustic folds and cusps Following on from this the book introduces optical vortex nerves in triangulated digital images In this context computational physics is synonymous with the study of the fine structure of light choreographed in video frames This choreography appears as a sequence of snapshots of light reflected and refracted from surface shapes providing a solid foundation for detecting analyzing and classifying visual scene shapes

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