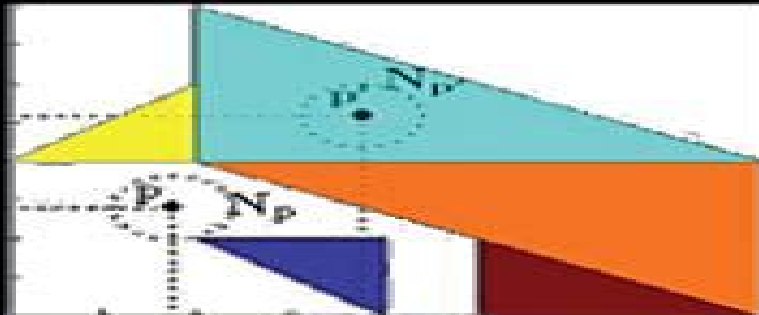
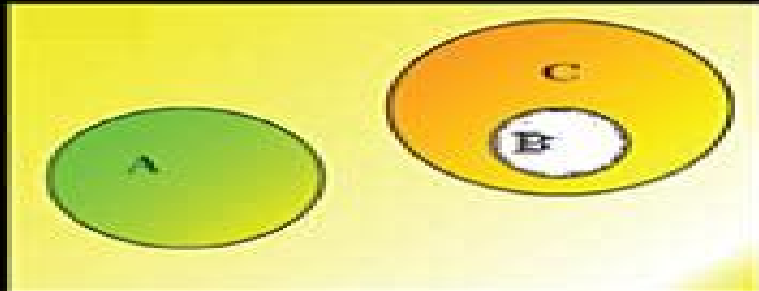


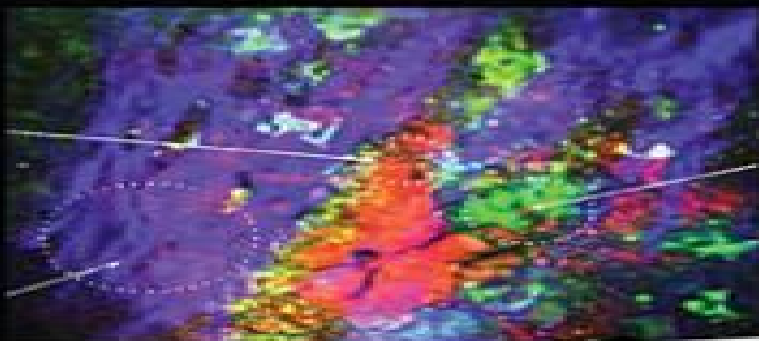
TOPOLOGY WITH APPLICATIONS



**Topological Spaces
via Near and Far**



**Somashekhar A. Naimpally
James F. Peters**



Topology With Applications Topological Spaces Via Near And Far

**Ms. Neha Bhardwaj, Dr. Preeti
Bhardwaj, Ms. Rinku, Dr. Deepika**



Topology With Applications Topological Spaces Via Near And Far:

Topology With Applications: Topological Spaces Via Near And Far Somashekhar A Naimpally, James F Peters, 2013-02-21

The principal aim of this book is to introduce topology and its many applications viewed within a framework that includes a consideration of compactness completeness continuity filters function spaces grills clusters and bunches hyperspace topologies initial and final structures metric spaces metrization nets proximal continuity proximity spaces separation axioms and uniform spaces This book provides a complete framework for the study of topology with a variety of applications in science and engineering that include camouflage filters classification digital image processing forgery detection Hausdorff raster spaces image analysis microscopy paleontology pattern recognition population dynamics stem cell biology topological psychology and visual merchandising It is the first complete presentation on topology with applications considered in the context of proximity spaces and the nearness and remoteness of sets of objects A novel feature throughout this book is the use of near and far discovered by F Riesz over 100 years ago In addition it is the first time that this form of topology is presented in the context of a number of new applications

Algebraic Topology Ms. Neha Bhardwaj, Dr. Preeti Bhardwaj, Ms. Rinku, Dr. Deepika, 2025-10-09 Algebraic Topology is a branch of mathematics that studies the properties of geometric spaces using the tools of abstract algebra Its main goal is to understand shapes and spaces by translating topological problems into algebraic ones which are often easier to analyze

Computational Proximity James F. Peters, 2016-04-20 This book introduces computational proximity CP as an algorithmic approach to finding nonempty sets of points that are either close to each other or far apart Typically in computational proximity the book starts with some form of proximity space topological space equipped with a proximity relation that has an inherent geometry In CP two types of near sets are considered namely spatially near sets and descriptively near sets It is shown that connectedness boundedness mesh nerves convexity shapes and shape theory are principal topics in the study of nearness and separation of physical as well as abstract sets CP has a hefty visual content Applications of CP in computer vision multimedia brain activity biology social networks and cosmology are included The book has been derived from the lectures of the author in a graduate course on the topology of digital images taught over the past several years Many of the students have provided important insights and valuable suggestions The topics in this monograph introduce many forms of proximities with a computational flavour especially what has become known as the strong contact relation many nuances of topological spaces and point free geometry

Transactions on Rough Sets XXI James F. Peters, Andrzej Skowron, 2019-02-01 The LNCS journal Transactions on Rough Sets is devoted to the entire spectrum of rough sets related issues from logical and mathematical foundations through all aspects of rough set theory and its applications such as data mining knowledge discovery and intelligent information processing to relations between rough sets and other approaches to uncertainty vagueness and incompleteness such as fuzzy sets and theory of evidence Volume XXI in the series is a continuation of a number of research streams that have grown out

of the seminal work of Zdzislaw Pawlak during the first decade of the 21st century

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

Encyclopedia of Image Processing Phillip A. Laplante, 2018-11-08 The Encyclopedia of Image Processing presents a vast collection of well written articles covering image processing fundamentals e g color theory fuzzy sets cryptography and applications e g geographic information systems traffic analysis forgery detection Image processing advances have enabled many applications in healthcare avionics robotics natural resource discovery and defense which makes this text a key asset for both academic and industrial libraries and applied scientists and engineers working in any field that utilizes image processing Written by experts from both academia and industry it is structured using the ACM Computing Classification System CCS first published in 1988 but most recently updated in 2012

Advances in Feature Selection for Data and Pattern Recognition Urszula Stańczyk, Beata Zielosko, Lakhmi C. Jain, 2017-11-16 This book presents recent developments and research trends in the field of feature selection for data and pattern recognition highlighting a number of latest advances The field of feature selection is evolving constantly providing numerous new algorithms new solutions and new applications Some of the advances presented focus on theoretical approaches introducing novel propositions highlighting and discussing properties of objects and analysing the intricacies of processes and bounds on computational complexity while others are dedicated to the specific requirements of application domains or the particularities of tasks waiting to be solved or improved Divided into four parts nature and representation of data ranking and exploration of features image shape motion and audio detection and recognition decision support systems it is of great interest to a large section of researchers including students professors and practitioners

Transactions on Rough Sets XVII James F. Peters, Andrzej Skowron, 2014-03-03 The LNCS journal Transactions on Rough Sets is devoted to the entire spectrum of rough sets related issues from logical and mathematical foundations through all aspects of rough set theory and

its applications such as data mining knowledge discovery and intelligent information processing to relations between rough sets and other approaches to uncertainty vagueness and incompleteness such as fuzzy sets and theory of evidence Volume XVII is a continuation of a number of research streams which have grown out of the seminal work by Zdzislaw Pawlak during the first decade of the 21st century The research streams represented in the papers cover both theory and applications of rough fuzzy and near sets as well as their combinations On Single-Valued Neutrosophic Proximity Spaces Samed Özkan, In this paper the notion of single valued neutrosophic proximity spaces which is a generalisation of fuzzy proximity spaces Katsaras AK Fuzzy proximity spaces Anal and Appl 1979 68 1 100 110 and intuitionistic fuzzy proximity spaces Lee SJ Lee EP Intuitionistic fuzzy proximity spaces Int J Math Math Sci 2004 49 2617 2628 was introduced and some of their properties were investigated Then it was shown that a single valued neutrosophic proximity on a set X induced a single valued neutrosophic topology on X Furthermore the existence of initial single valued neutrosophic proximity structure is proved Finally based on this fact the product of single valued neutrosophic proximity spaces was introduced *New Trends in Applied Analysis and Computational Mathematics* Susanta Kumar Paikray, Hemen Dutta, John N. Mordeson, 2021-06-28 The volume contains original research papers as the Proceedings of the International Conference on Advances in Mathematics and Computing held at Veer Surendra Sai University of Technology Odisha India on 7 8 February 2020 It focuses on new trends in applied analysis computational mathematics and related areas It also includes certain new models image analysis technique fluid flow problems etc as applications of mathematical analysis and computational mathematics The volume should bring forward new and emerging topics of mathematics and computing having potential applications and uses in other areas of sciences It can serve as a valuable resource for graduate students researchers and educators interested in mathematical tools and techniques for solving various problems arising in science and engineering

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