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SIMILARITY BETWEEN SHAPES UNDER AFFINE TRANSFORMATION *2018*

this book constitutes the proceedings of the 8th international conference on similarity search and applications sisap 2015 held in glasgow uk in october 2015 the 19 full papers 12 short and 9 demo and poster papers presented in this volume were carefully reviewed and selected from 68 submissions they are organized in topical sections named improving similarity search methods and techniques metrics and evaluation applications and specific domains implementation and engineering solutions posters demo papers

Similarity Search and Applications *2015-10-06*

how does one determine how similar two maps are this book aims at the theory of spatial similarity relations and its application in automated map generalization including the definitions classification and features of spatial similarity relations included also are calculation models of spatial similarity relations between arbitrary individual objects and between arbitrary object groups and the application of the theory in the automation of the algorithms and procedures in map generalization

Spatial Similarity Relations in Multi-scale Map Spaces 2014-10-10

the aim of this book is to provide a systematic and practical account of methods of integration of ordinary and partial differential equations based on invariance under continuous lie groups of trans formations the goal of these methods is the expression of a solution in terms of quadrature in the case of ordinary differential equations of first order and a reduction in order for higher order equations for partial differential equations at least a reduction in the number of independent variables is sought and in favorable cases a reduction to ordinary differential equations with special solutions or quadrature in the last century approximately one hundred years ago sophus lie tried to construct a general integration theory in the above sense for ordinary differential equations following abel s approach for algebraic equations he studied the invariance of ordinary differential equations under transformations in particular lie introduced the study of continuous groups of transformations of ordinary differential equations based on the infinitesimal properties of the group in a sense the theory was completely successful it was shown how for a first order differential equation the knowledge of a group leads immediately to quadrature and for a higher order equation or system to a reduction in order in another sense this theory is somewhat disappointing in that for a first order differ ential equation essentially no systematic way can be given for finding the groups or showing that they do not exist for a first order differential equation

Similarity Methods for Differential Equations 2012-12-06

this ground breaking reference provides an overview of key concepts in dimensional analysis and then pushes well beyond traditional applications in fluid mechanics to demonstrate how powerful this tool can be in solving complex problems across many diverse fields of particular interest is the book s coverage of dimensional analysis and self similarity methods in nuclear and energy engineering numerous practical examples of dimensional problems are presented throughout allowing readers to link the book s theoretical explanations and step by step mathematical solutions to practical implementations

Dimensional Analysis and Self-Similarity Methods for Engineers and Scientists *2015-04-15*

the book provides a summary of the historical evolution of dimensional analysis and frames the problem of dimensions systems of units and similarity in a vision dominated by the conventions that formalise even the exact sciences the first four chapters address the definitions with few dimensional analysis theorems and similarity criteria there is also the analysis of self similarity both of first and second kind with a couple of completely solved problems framed within the group theory from chapter 5 onward the focus is on applications in some of the engineering sectors the number of topics is necessarily limited but almost always there are details calculations and treatment of assumptions the book contains descriptions of some of the experimental apparatuses currently used for the realisation of physical models such as the wind tunnel the shaking table the centrifuge and with the

exclusion of many others which can be found in specialist monographies measurement techniques and instrumentation and statistical data processing is also available in other books some more specific notions required by the context are reported in the appendix where appears also the description of numerous dimensionless groups all of engineering interest but with the exclusion of many others related to physical processes of electrical nature or physics of particles a glossary lists the meaning of some specific terms typical of dimensional analysis and used in the book

Principles and Applications of Dimensional Analysis and Similarity 2022-02-04

this book constitutes the proceedings of the third international workshop on similarity based pattern analysis and recognition simbad 2015 which was held in copenahgen denmark in october 2015 the 15 full and 8 short papers presented were carefully reviewed and selected from 30 submissions the workshop focus on problems techniques applications and perspectives from supervisedto unsupervised learning from generative to discriminative models and fromtheoretical issues to empirical validations

Enhancing Similarity Measures with Imperfect Rule-based Background Knowledge *2006*

multidimensional similarity structure analysis comprises a class of models that represent similarity among entities for example variables items objects persons etc in multidimensional space to permit one to grasp more easily the interrelations and patterns present in the data the book is oriented to both researchers who have little or no previous exposure to data scaling and have no more than a high school background in mathematics and to investigators who would like to extend their analyses in the direction of hypothesis and theory testing or to more intimately understand these analytic procedures the book is repleted with examples and illustrations of the various techniques drawn largely but not restrictively from the social sciences with a heavy emphasis on the concrete geometric or spatial aspect of the data representations

Similarity-Based Pattern Recognition *2015-10-04*

the present text sets itself in relief to other titles on the subject in that it addresses the means and methodologies versus a narrow specific task oriented approach concepts and their developments which evolved to meet the changing needs of applications are addressed this approach provides the reader with a general tool box to apply to their specific needs two important tools are presented dimensional analysis and the similarity analysis methods the fundamental point of view enabling one to sort all models is that of information flux between a model and an original expressed by the similarity and abstraction each chapter includes original examples and applications in this respect the models can be divided into several groups the following models are dealt with separately by chapter mathematical and physical models physical analogues deterministic stochastic and cybernetic computer models the mathematical models are divided into asymptotic and phenomenological models the phenomenological models which can also be called experimental are usually the result of an experiment on an complex object or process the variable dimensionless quantities contain information about the real state of boundary conditions parameter non linearity changes and other factors with satisfactory measurement accuracy and experimental strategy such models are highly credible and can be used for example in control systems

Multidimensional Similarity Structure Analysis *2012-12-06*

this book describes visual perception and control methods for robotic systems that need to interact with the environment multiple view geometry is utilized to extract low dimensional geometric information from abundant and high dimensional image information making it convenient to develop general solutions for robot perception and control tasks in this book multiple view geometry is used for geometric modeling and scaled pose estimation then lyapunov methods are applied to design stabilizing control laws in the presence of model uncertainties and multiple constraints

Similarity and Modeling in Science and Engineering 2012-04-07

similarities in chemical reactivity depend on molecular properties and are ultimately dependent on the similarities of electronic structures fundamentally quantum chemical similarities are manifested in similarities of molecular behaviour this book covers both the quantum chemical origins and the methods of phenomenological descriptions of molecular similarity the emphasis on reactivity is a unique feature the exposition of computational methods and the prediction of reactivities as well as the description of actual computer programs constitute important aspects of the book specific applications in drug design and techniques for the interpretation of the roles of functional groups in reactivity are of interest in molecular engineering the selection of topics provides a detailed and balanced introduction to the field of similarity based assessment of chemical reactivity for researchers and graduate students in both fundamental chemistry and applied fields such as biochemistry pharmacology and drug design

Multi-View Geometry Based Visual Perception and Control of Robotic Systems *2018-06-14*

this book provides a comprehensive tutorial on similarity operators the authors systematically survey the set of similarity operators primarily focusing on their semantics while also touching upon mechanisms for processing them effectively the book starts off by providing introductory material on similarity search systems highlighting the central role of similarity operators in such systems this is followed by a systematic categorized overview of the variety of similarity operators that have been proposed in literature over the last two decades including advanced operators such as rknn reverse k ranks skyline k groups and k n match since indexing is a core technology in the practical implementation of similarity operators various indexing mechanisms are summarized finally current research challenges are outlined so as to enable interested readers to identify potential directions for future investigations in summary this book offers a comprehensive overview of the field of similarity search operators allowing readers to understand the area of similarity operators as it stands today and in addition providing them with the background needed to understand recent novel approaches

Molecular Similarity and Reactivity: From Quantum Chemical to Phenomenological Approaches *1995-07-31*

this lucid introductory text offers both analytic and axiomatic approaches to plane projective geometry strong reinforcement for its teachings include detailed examples and numerous theorems proofs and exercises plus answers to all odd numbered problems in addition to its value to students this volume provides an excellent reference for professionals 1970 edition

Operators for Similarity Search *2015-07-07*

a modern and rigorous introduction to long range dependence and self similarity complemented by numerous more specialized up to date topics in this research area

Group Theory And Its Applications In Chemistry, 1/e *2008*

scaling laws reveal the fundamental property of phenomena namely self similarity repeating in time and or space which substantially simplifies the mathematical modelling of the phenomena themselves this book begins from a non traditional exposition of dimensional analysis physical similarity theory and general theory of scaling phenomena using classical examples to demonstrate that the onset of scaling is not until the influence of initial and or boundary conditions has disappeared but when the system is still far from equilibrium numerous examples from a diverse range of fields including theoretical biology fracture mechanics atmospheric and oceanic phenomena and flame propagation are presented for which the ideas of scaling intermediate asymptotics self similarity and renormalisation were of decisive value in modelling

Introduction to Projective Geometry *2008-12-09*

in recent years the fundamental concepts and applied methodologies of molecular similarity analysis have experienced a revolutionary development motivated by the increased degree of understanding of elementary molecular properties on the levels ranging from fundamental quantum chemistry to the complex interactions of biomolecules and aided by the spectacular progress in computer technology and access to computer power the area has opened up to many new ideas and new approaches this book covers topics in quantum similarity approaches electron density shape analysis methods and it provides better theoretical understanding of molecular similarity additionally quantitative shape analysis especially activity relations qshar and the prediction of the pharmacological or toxicological effects of molecules in the related context of quantum qsar qqsar this volume written by the experts in the various subfields of molecular similarity provides a collection of the most recent ideas advances and methodologies it is the hope of the editors that by representing these topics within a single volume the readers will find a balanced overview of the status of the field we also hope that the book will serve as a tool for selecting and assessing the best approach for various new types of problems of molecular similarity that may arise and it will provide a set of easy references for further studies and applications

Long-Range Dependence and Self-Similarity *2017-04-18*

two experimental procedures have prompted the empirical development of psychophysical models those that measure response frequency often referred to as response probability and those that measure response time sometimes referred to as reaction time the history of psychophysics is filled with theories that predict one or the other of these two responses yet the persistent reappearance of empirical relationships between these two measures of performance makes clear the need for a theory that both predicts and relates these two measures most likely both response measures are the result of a single process that generates empirical laws relating response time and response probability it is this process its theory description and application that is the topic of the wave theory of difference and similarity the author of this book has set out to provide a theoretical foundation for formulating new theories that systematize earlier results and to stimulate new concepts and introduce new tools for exploring mental phenomena and improving mental measurement

Scaling, Self-similarity, and Intermediate Asymptotics *1996-12-12*

this accessible text reference presents a coherent overview of the emerging field of non euclidean similarity learning the book presents a broad range of perspectives on similarity based pattern analysis and recognition methods from purely theoretical challenges to practical real world applications the coverage includes both supervised and unsupervised learning paradigms as well as generative and discriminative models topics and features explores the origination and causes of non euclidean dis similarity measures and how they influence the performance of traditional classification algorithms reviews similarity measures for non vectorial data considering both a kernel tailoring approach and a strategy for learning similarities directly from training data describes various methods for structure preserving embeddings of structured data formulates classical pattern recognition problems from a purely game theoretic perspective examines two large scale biomedical imaging applications

On Musical Self-similarity *2011*

nonlinearity plays a major role in the understanding of most physical chemical biological and engineering sciences nonlinear problems fascinate scientists and engineers but often elude exact treatment however elusive they may be the solutions do exist if only one perseveres in seeking them out self similarity and beyond presents

Fundamentals of Molecular Similarity *2013-04-17*

this book constitutes the refereed proceedings of the 16th international conference on similarity search and applications sisap 2023 held in a coruña spain during october 9 11 2023 the 16 full papers and 4 short papers included in this book were carefully reviewed and selected from 33 submissions they were organized in topical sections as follows similarity

queries similarity measures indexing and retrieval data management feature extraction intrinsic dimensionality efficient algorithms similarity in machine learning and data mining

The Wave Theory of Difference and Similarity 1992

the principle aim of the book is to present a self contained modern account of similarity and symmetry methods which are important mathematical tools for both physicists engineers and applied mathematicians the idea is to provide a balanced presentation of the mathematical techniques and applications of symmetry methods in mathematics physics and engineering that is why it includes recent developments and many examples in finding systematically conservation laws local and nonlocal symmetries for ordinary and partial differential equations the role of continuous symmetries in classical and quantum field theories is exposed at a technical level accessible even for non specialists the importance of symmetries in continuum mechanics and mechanics of materials is highlighted through recent developments such as the construction of constitutive models for various materials combining lie symmetries with experimental data as a whole this book is a unique collection of contributions from experts in the field including specialists in the mathematical treatment of symmetries researchers using symmetries from a fundamental applied or numerical viewpoint the book is a fascinating overview of symmetry methods aimed for graduate students in physics mathematics and engineering as well as researchers either willing to enter in the field or to capture recent developments and applications of symmetry methods in different scientific fields

Similarity-Based Pattern Analysis and Recognition 2013-11-26

in this paper we propose some transformations based on the centroid points between single valued neutrosophic numbers we introduce these transformations according to truth indeterminacy and falsity value of single valued neutrosophic numbers we propose a new similarity measure based on falsity value between single valued neutrosophic sets

Self-Similarity and Beyond *2019-06-13*

this book constitutes the proceedings of the second international workshop on similarity based pattern analysis and recognition simbad 2013 which was held in york uk in july 2013 the 18 papers presented were carefully reviewed and selected from 33 submissions they cover a wide range of problems and perspectives from supervised to unsupervised learning from generative to discriminative models from theoretical issues to real world practical applications and offer a timely picture of the state of the art in the field

Similarity Search and Applications *2023-10-26*

this book constitutes the refereed proceedings of the 11th international conference on similarity search and applications sisap 2018 held in lima peru in october 2018 the 16 full papers presented together with 3 short papers and 1 demonstration paper were carefully reviewed and selected from 31 submissions the papers deal with issues surrounding the theory design analysis practice and application of content based and feature based similarity search they are organized in the following topical sections metric search visual search nearest neighbor queries clustering and outlier detection graphs and applications and shared session sisap and spire

Similarity and Symmetry Methods *2014-07-19*

this book is designed to provide students with the tools to model analyze and solve a wide range of engineering applications involving conduction heat transfer introduce students to three topics not commonly covered in conduction heat transfer textbooks perturbation methods heat transfer in living tissue and microscale conduction take advantage of the mathematical simplicity of o dimensional conduction to present and explore a variety of physical situations that are of practical interest present textbook material in an efficient and concise manner to be covered in its entirety in a one semester graduate course drill students in a systematic problem solving methodology with emphasis on thought process logic

reasoning and verification to accomplish these objectives requires judgment and balance in the selection of topics and the level of details mathematical techniques are presented in simplified fashion to be used as tools in obtaining solutions examples are carefully selected to illustrate the application of principles and the construction of solutions solutions follow an orderly approach which is used in all examples to provide consistency in solutions logic i have prepared solutions to all problems included in the first ten chapters myself instructors are urged to make them available electronically rather than posting them or presenting them in class in an abridged form

A New Similarity Measure Based on Falsity Value between Single Valued Neutrosophic Sets Based on the Centroid Points of Transformed Single Valued Neutrosophic Numbers with Applications to Pattern Recognition 2013-06-28

visualization in medicine is the first book on visualization and its application to problems in medical diagnosis education and treatment the book describes the algorithms the applications and their validation how reliable are the results and the clinical evaluation of the applications are the techniques useful it discusses visualization techniques from research literature as well as the compromises required to solve practical clinical problems the book covers image acquisition image analysis and interaction techniques designed to explore and analyze the data the final chapter shows how visualization is used for planning liver surgery one of the most demanding surgical disciplines the book is based on several years of the authors teaching and research experience both authors have initiated and lead a variety of interdisciplinary projects involving computer scientists and medical doctors primarily radiologists and surgeons a core field of visualization and graphics missing a dedicated book until now written by pioneers in the field and illustrated in full color covers theory as well as practice

Similarity-Based Pattern Recognition 2018-10-04

the authors introduce the concept of molecular quantum similarity developed in their laboratory in a didactic form the basis of the concept combines quantum theoretical calculations with molecular structure and properties even for large molecules they give definitions and procedures to compute similarities molecules and provide graphical tools for visualization of sets of molecules as n dimensional point charts

Similarity Search and Applications 2009-07-09

illustrates the analysis behavior and design of linear control systems using classical modern and advanced control techniques covers recent methods in system identification and optimal digital adaptive robust and fuzzy control as well as stability controllability observability pole placement state observers input output decoupling and model matching

Heat Conduction 2007-06-21

this fifth volume on advances and applications of dsmt for information fusion collects theoretical and applied contributions of researchers working in different fields of applications and in mathematics and is available in open access the collected contributions of this volume have either been published or presented after disseminating the fourth volume in 2015 available at fs unm edu dsmt book4 pdf or onera fr sites default files 297 2015 dsmt book4 pdf in international conferences seminars workshops and journals or they are new the contributions of each part of this volume are chronologically ordered first part of this book presents some theoretical advances on dsmt dealing mainly with modified proportional conflict redistribution rules pcr of combination with degree of intersection coarsening techniques interval calculus for pcr thanks to set inversion via interval analysis sivia rough set classifiers canonical decomposition of dichotomous belief functions fast pcr fusion fast inter criteria analysis with pcr and improved pcr5 and pcr6 rules preserving the quasi neutrality of quasi vacuous belief assignment in the fusion of sources of evidence with their matlab codes because more applications of dsmt have emerged in the past years since the

apparition of the fourth book of dsmt in 2015 the second part of this volume is about selected applications of dsmt mainly in building change detection object recognition quality of data association in tracking perception in robotics risk assessment for torrent protection and multi criteria decision making multi modal image fusion coarsening techniques recommender system levee characterization and assessment human heading perception trust assessment robotics biometrics failure detection gps systems inter criteria analysis group decision human activity recognition storm prediction data association for autonomous vehicles identification of maritime vessels fusion of support vector machines svm silx furtif rust code library for information fusion including pcr rules and network for ship classification finally the third part presents interesting contributions related to belief functions in general published or presented along the years since 2015 these contributions are related with decision making under uncertainty belief approximations probability transformations new distances between belief functions non classical multi criteria decision making problems with belief functions generalization of bayes theorem image processing data association entropy and cross entropy measures fuzzy evidence numbers negator of belief mass human activity recognition information fusion for breast cancer therapy imbalanced data classification and hybrid techniques mixing deep learning with belief functions as well we want to thank all the contributors of this fifth volume for their research works and their interests in the development of dsmt and the belief functions we are grateful as well to other colleagues for encouraging us to edit this fifth volume and for sharing with us several ideas and for their questions and comments on dsmt through the years we thank the international society of information fusion isif org for diffusing main research works related to information fusion including dsmt in the international fusion conferences series over the years florentin smarandache is grateful to the university of new mexico u s a that many times partially sponsored him to attend international conferences workshops and seminars on information fusion jean dezert is grateful to the department of information processing and systems dtis of the french aerospace lab office national d e tudes et de recherches ae rospatiales palaiseau france for encouraging him to carry on this research and for its financial support albena tchamova is first of all grateful to dr jean dezert for the opportunity to be involved during more than 20 years to follow and share his smart and beautiful visions and ideas in the development of the powerful dezert smarandache theory for data fusion she is also grateful to the institute of information and communication technologies bulgarian academy of sciences for sponsoring her to attend international conferences on information fusion

Visualization in Medicine *2000-07-26*

stability of linear systems some aspects of kinematic similarity

Molecular Quantum Similarity in QSAR and Drug Design 2013-12-14

this book constitutes the refereed proceedings of the 15th international conference on similarity search and applications sisap 2022 held in bologna italy in october 2022 sisap 2022 is an annual international conference for researchers focusing on similarity search challenges and related theoretical practical problems as well as the design of content based similarity search applications the 15 full papers presented together with 8 short and 2 doctoral symposium papers were carefully reviewed and selected from 34 submissions they were organized in topical sections as follows applications foundations indexing and clustering learning doctoral symposium

Scaling and Self-Similarity in Physics 2017-12-19

the aim of this text is to provide reviews and monographs on topics involving molecular similarity ranging from the fundamental physical properties underlying molecular behaviour to applications in industrially important fields such as pharmaceutical drug design and molecular engineering the editors hope that this series will encourage new ideas and approaches help to systematize the rapidly accumulating new chemical information and make chemistry better understood and better applied

Modern Control Engineering *2023-12-27*

this volume highlights some of the advances in molecular similarity molecular similarity research is a dynamic field where the rapid transfer of ideas and methodologies from the

theoretical quantum chemical and mathematical chemistry disciplines to efficient algorithms and computer programs used in industrially important applications is especially evident these applications often serve as motivating factors toward new advances in the fundamental and theoretical fields and the combination of intellectual challenge and practical utility provides mutual advantages to theoreticians and experimentalists the aim of this volume is to present an overview of the current methodologies of molecular similarity studies and to point out new challenges unsolved problems and areas where important new advances can be expected

Advances and Applications of DSmT for Information Fusion (Collected Works. Volume 5) *1980-10-02*

molecular similarity searching is fast becoming a key tool in organic chemistry in this book the editor has brought together an international team of authors each working at the forefront of this technology providing a timely and concise overview of current research the chapters focus principally on those methods which have reached sufficient maturity to be of immediate practical use in molecular design

Stability of Linear Systems: Some Aspects of Kinematic Similarity *2022-09-27*

Similarity Search and Applications 1960

Simple Methods for Classification and Construction of Similarity Solutions of Partial Differential Equations *1996-12-17*

Advances in Molecular Similarity *1999-02-18*

Advances in Molecular Similarity *1998*

Adaptable Similarity Search in 3-D Spatial Database Systems *2012-12-06*

Molecular Similarity in Drug Design

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