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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 dimensional analysis is the basis for the determination of laws that allow the experimental results obtained on a model to be transposed to the fluid system at full scale a prototype the similarity in fluid mechanics then allows for better redefinition of the analysis by removing dimensionless elements this book deals with these two tools with a focus on the rayleigh method and the vaschy buckingham method it deals with the homogeneity of the equations and the conversion between the systems of units si and cgs and presents the dimensional analysis approach before addressing the similarity of flows dimensional analysis and similarity in fluid mechanics proposes a scale model and presents numerous exercises combining these two methods it is accessible to students from their first year of a bachelors degree this volume brings together interdisciplinary topics in condensed matter theory and related disciplines with an emphasis on the common concerns of mostly theorists applying advanced many particle methods in diverse areas solid state and low temperature physics atomic sub atomic and statistical physics engineering sciences keeping a sharp focus on theoretical developments which cross borders between subfields of condensed matter physics and which provide new approaches to outstanding problems the book records the fascinating variety of new results associated with the idea of similarity in diversity in perusing this volume the reader will be stimulated to discern threads of similarity in the great diversity of physical phenomena and theoretical models proposed to explain them and indeed there are threads that can be glimpsed in the table of contents and ramifications of these threads as one reads through the articles one conclusion is clear the search for similarity in diversity is a powerful approach to interdisciplinary science the single valued neutrosophic set is a subclass of neutrosophic set and has been proposed in recent years an important application for single valued neutrosophic sets is to solve multicriteria decision making problems this book provides an introduction to the decomposition of finitely generated abelian groups and canonical forms of matrices and explores the analogous theory of matrix similarity over a field includes numerous worked examples and exercises with solutions a study of marriage in preindustrial europe and asia that goes beyond the malthusian east west dichotomy to find variation within regions and commonality across regions since malthus an east west dichotomy has been used to characterize marriage behavior in asia and europe marriages in asia were said to be early and universal in europe late and non universal in europe marriages were supposed to be the result of individual choices but in asia decided by families and communities this book challenges this binary taxonomy of marriage patterns and family systems drawing on richer and more nuanced data the authors compare the interpretations based on aggregate demographic patterns with studies of individual actions in local populations doing so they are able to analyze simultaneously the influence on marriage decisions of individual demographic features socioeconomic status and composition of the household and local conditions and the interactions of these variables they find differences between east and west but also variation within regions and commonality across regions the book studies local populations in sweden belgium italy japan and china rather than a simple comparison of aggregate marriage patterns it examines marriage outcomes and determinants of local populations in different countries using similar data and methods the authors first present the results of comparative analyses of first marriage and remarriage and then offer chapters each of which is devoted to the results from a specific country similarity in difference is the third in a prizewinning series on the demographic history of eurasia following life under pressure 2004 and prudence and pressure 2009 both published by the mit press similarity measure is an important tool in multiple criteria decision making problems which can be used to measure the difference between the alternatives in this paper some new similarity measures of single valued neutrosophic sets svnss and interval valued neutrosophic sets ivnss are defined based on the euclidean distance measure respectively and the proposed similarity measures satisfy the axiom of the similarity measure furthermore we apply the proposed similarity measures to medical diagnosis decision problem the numerical example is used to illustrate the feasibility and effectiveness of the proposed similarity measures of svnss and ivnss which are then compared to other existing similarity measures 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 assessing the degree to which two objects an object and a query or two concepts are similar or compatible is a fundamental component of human reasoning and consequently is critical in the development of automated diagnosis classification information retrieval and decision systems the assessment of similarity has played an important role in such diverse disciplines such as taxonomy psychology and the social sciences each discipline has proposed methods for quantifying similarity judgments suitable for its particular applications this book presents a unified approach to quantifying similarity and compatibility within the framework of fuzzy set theory and examines the primary importance of these concepts in approximate reasoning examples of the application of similarity measures in various areas including expert

systems information retrieval and intelligent database systems are provided 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 the idea of the q neutrosophic soft set emerges from the neutrosophic soft set by upgrading the membership functions to a two dimensional entity which indicate uncertainty indeterminacy and falsity hence it is able to deal with two dimensional inconsistent imprecise and indeterminate information appearing in real life situations in this study the tools that measure the similarity distance and the degree of fuzziness of q neutrosophic soft sets are presented the definitions of distance similarity and measures of entropy are introduced some formulas for q neutrosophic soft entropy were presented the known hamming euclidean and their normalized distances are generalized to make them well matched with the idea of q neutrosophic soft set the distance measure is subsequently used to define the measure of similarity lastly we expound three applications of the measures of q neutrosophic soft sets by applying entropy and the similarity measure to a medical diagnosis and decision making problems 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 this book focuses on analytical similarity assessment in biosimilar product development following the fda s recommended stepwise approach for obtaining totality of the evidence for approval of biosimilar products it covers concepts such as the tiered approach for assessment of similarity of critical quality attributes in the manufacturing process of biosimilar products models methods like the statistical model for classification of critical quality attributes equivalence tests for critical quality attributes in tier 1 and the corresponding sample size requirements current issues and recent developments in analytical similarity assessment 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 amos tversky 1937 1996 a towering figure in cognitive and mathematical psychology devoted his professional life to the study of similarity judgment and decision making he had a unique ability to master the technicalities of normative ideals and then to intuit and demonstrate experimentally their systematic violation due to the vagaries and consequences of human information processing he created new areas of study and helped transform disciplines as varied as economics law medicine political science philosophy and statistics this book collects forty of tversky s articles selected by him in collaboration with the editor during the last months of tversky s life it is divided into three sections similarity judgment and preferences the preferences section is subdivided into probabilistic models of choice choice under risk and uncertainty and contingent preferences included are several articles written with his frequent collaborator nobel prize winning economist daniel kahneman this book explores the importance of cross linguistic similarity in foreign language learning similarities can be perceived in the form of simplified one to one relationships or merely assumed the book outlines the different roles of l1 transfer on comprehension and on production and on close and distant target languages 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 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 the roughness and similarity measure for two different information in the same universal set is useful in explaining the strength and completeness of the information given then for rough neutrosophic multisets environment the lower and upper approximation was a concerned property to study in explaining the roughness of the information needed meanwhile the vectorial models of information which are cosine measure and dice measure represent the result for the similarity measure of rough neutrosophic multisets the finding of this set theory gives a new generalization about similarity measure for multiple information involving indeterminacy information in the same environment besides that the rough neutrosophic multisets theory also applicable set in decision making for medical diagnosis the comparison result showed that the roughness approximation of information is essential to get the best result in a close similarity measure this book constitutes the proceedings of the first international workshop on similarity based pattern recognition simbad 2011 held in venice italy in september 2011 the 16 full papers and 7 poster papers presented were carefully reviewed and selected from 35 submissions the contributions are organized in topical sections on dissimilarity characterization and analysis generative models of similarity data graph based and relational models clustering and dissimilarity data applications spectral methods and embedding 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 in order to provide a relatively simple heat transfer prediction along a nozzle a differential similar solution analysis for the turbulent boundary layer is developed this analysis along with a new correlation for the turbulent prandtl number gives good agreement of the predicted with the measured heat transfer in the throat and supersonic regiono f the nozzle also the boundary layer variables heat transfer etc can be calculated at any arbitrary location in the throat or supersonic region of the nozzle in less than a half minute of computing time lewis dcs 7094 7044 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 this book provides a summary of the manifold audio and web based approaches to music information retrieval mir research in contrast to other books dealing solely with music signal processing it addresses additional cultural and listener centric aspects and thus provides a more holistic view consequently the text includes methods operating on features extracted directly from the audio signal as well as methods operating on features extracted from contextual information either the cultural context of music as represented on the web or the user and usage context of music following the prevalent document centered paradigm of information retrieval the book addresses models of music similarity that extract computational features to describe an entity that represents music on any level e g song album or artist and methods to calculate the similarity between them while this perspective and the representations discussed cannot describe all musical dimensions they enable us to effectively find music of similar qualities by providing abstract summarizations of musical artifacts from different modalities the text at hand provides a comprehensive and accessible introduction to the topics of music search retrieval and recommendation from an academic perspective it will not only allow those new to the field to quickly access mir from an information retrieval point of view but also raise awareness for the developments of the music domain within the greater ir community in this regard part i deals with content based mir in particular the extraction of features from the music signal and similarity calculation for content based retrieval part ii subsequently addresses mir methods that make use of the digitally accessible cultural context of music part iii addresses methods of collaborative filtering and user aware and multi modal retrieval while part iv explores current and future applications of music retrieval and recommendation multifractal theory was introduced by theoretical physicists in 1986 since then multifractals have increasingly been studied by mathematicians this new work presents the latest research on random results on random multifractals and the physical thermodynamical interpretation

of these results as the amount of work in this area increases lars olsen presents a unifying approach to current multifractal theory featuring high quality original research material this important new book fills a gap in the current literature available providing a rigorous mathematical treatment of multifractal measures this book constitutes the refereed proceedings of the 6th international conference on similarity search and applications sisap 2013 held in a coruña spain in october 2013 the 19 full papers 6 short papers and 2 demo papers presented were carefully reviewed and selected from 44 submissions the papers are organized in topical sections on new scenarios and approaches improving similarity search methods and techniques metrics and evaluation applications and specific domains and implementation and engineering solutions this book brings together most of the information available concerning two species that diverged 2 3 million years ago the objective was to try to understand why two sibling species so similar in several characteristics can be so different in others to this end it was crucial to confront all data from their ecology and biogeography with their behavior and dna polymorphism drosophila melanogaster and drosophila simulans are among the two sibling species for which a large set of data is available in this book ecologists physiologists geneticists behaviorists share their data on the two sibling species and several scenarios of evolution are put forward to explain their similarities and divergences this is the first collection of essays of its kind it is not the final point of the analyses of these two species since several areas remain obscure however the recent publication of the complete genome of d melanogaster opens new fields for research this will probably help us explain why d melanogaster and d simulans are sibling species but false friends similarity and dimensional methods in mechanics provides a complete development of the basic concepts of dimensional analysis and similarity methods illustrated by applications to a wide variety of problems in mechanics this book shows the power of dimensional and similarity methods in solving problems in the theory of explosions and astrophysics organized into five chapters this book begins with an overview of the fundamental ideas behind similarity and dimensional methods this text then provides a series of examples of application of the methods other chapters consider the use of similarity and dimensional analysis in developing fundamental contributions to viscous fluid theory this book discusses as well the various theories of isotropic turbulence the final chapter deals with the applications to the theory of the luminosity and internal structure of stars this book is a valuable resource for students who wish to learn dimensional analysis and similarity methods for the first time readers who are connected with the many aspects of gas dynamics including space technology astrophysics and atomic energy will also find this book useful studying language variation requires comprehensive interdisciplinary knowledge and new computational tools this essential reference introduces researchers and graduate students in computer science linguistics and nlp to the core topics in language variation and the computational methods applied to similar languages varieties and dialects face recognition has several applications including security such as authentication and identification of device users and criminal suspects and in medicine corrective surgery and diagnosis facial recognition programs rely on algorithms that can compare and compute the similarity between two sets of images this ebook explains some of the similarity measures used in facial recognition systems in a single volume readers will learn about various measures including minkowski distances mahalanobis distances hansdorff distances cosine based distances among other methods the book also summarizes errors that may occur in face recognition methods computer scientists facing face and looking to select and test different methods of computing similarities will benefit from this book the book is also useful tool for students undertaking computer vision courses in an era of globalization internationalization of higher education ihe has been constructed as an almost inevitable trend and has become a common pursuit of many nations in their higher education he policies this book focuses on two nations china and australia in terms of this trend the broadest aim of this book was to find out the interactive relationships between global and national pressures in policy development by comparing the international he policies in china and australia the three categories overarching meta policies at the macrolevel nation institution focused policies at the mesolevel universities and people focused policies at the microlevel individuals are documented and analyzed similarities and differences are identified similarities include promoting and deepening ihe as one important agenda in national policies at the macrolevel in the two nations promoting transnational cooperation in the provision of he at the mesolevel as well as increasing international student numbers and encouraging an outflow of student learning and exchanges at the microlevel differences include china s soft power initiatives and australia s appeal for the sustainability of international he as a national priority in the area of ihe at the macrolevel the focus on world class universities construction in china and strengthening the overall he system in australia and different issues in relation to people mobility and brain circulation specifically encouraging more outflow of students and attracting more inflow of talents and international students in china and over reliance on international students financially in australia it is suggested that different responses to the global trends reflect the specificities of each nation and the ways path dependent factors mediate global pressures this comparison will facilitate a better understanding of how globalization has affected and been responded to in ihe policies and enable a better understanding of their path dependent mediation through a focus on two specific sets of national policies production of this volume of the handbook if this joint enterprise has succeeded it is thanks to their competence knowledge and application for the editor s role is merely that of a coordinator my thanks are also due to springer verlag the publishers who gave me every possible assistance in seeing this volume to completion dr d maroske was kind enough to prepare the subject index and lastly i should like to voice my indebtedness to the management of sandoz ltd basle which allowed me to devote a not inconsiderable part of my time to the editing of this volume i am also very grateful to a number of members of the staff of sandoz ltd to mr j e smith b sc f 1 l who translated some chapters and revised the language of

others and to miss hannelore straube and miss sonja ebner for their valuable secreterial help big data thrives on extracting knowledge from a large number of data sets but how is an application possible when a single data set is several gigabytes in size the innovative data compression techniques from the field of machine learning and modeling using bayesian networks which have been theoretically developed and practically implemented here can reduce these huge amounts of data to a manageable size by eliminating redundancies in location time and between simulation results data reductions to less than 1 of the original size are possible the developed method represents a promising approach whose use goes far beyond the application example of crash test simulations chosen here the idea of the iterative transformation procedure suggested by h wielandt is explained application of the procedure to ordinary natural vibration problems and to flutter problems is shown in numerical examples comparisons of computed results by other methods or analysis are made

Molecular Similarity in Drug Design 2012-12-06

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

Dimensional Analysis and Similarity in Fluid Mechanics *2020-11-02*

dimensional analysis is the basis for the determination of laws that allow the experimental results obtained on a model to be transposed to the fluid system at full scale a prototype the similarity in fluid mechanics then allows for better redefinition of the analysis by removing dimensionless elements this book deals with these two tools with a focus on the rayleigh method and the vaschy buckingham method it deals with the homogeneity of the equations and the conversion between the systems of units si and cgs and presents the dimensional analysis approach before addressing the similarity of flows dimensional analysis and similarity in fluid mechanics proposes a scale model and presents numerous exercises combining these two methods it is accessible to students from their first year of a bachelors degree

Similarity in Diversity *2003*

this volume brings together interdisciplinary topics in condensed matter theory and related disciplines with an emphasis on the common concerns of mostly theorists applying advanced many particle methods in diverse areas solid state and low temperature physics atomic sub atomic and statistical physics engineering sciences keeping a sharp focus on theoretical developments which cross borders between subfields of condensed matter physics and which provide new approaches to outstanding problems the book records the fascinating variety of new results associated with the idea of similarity in diversity in perusing this volume the reader will be stimulated to discern threads of similarity in the great diversity of physical phenomena and theoretical models proposed to explain them and indeed there are threads that can be glimpsed in the table of contents and ramifications of these threads as one reads through the articles one conclusion is clear the search for similarity in diversity is a powerful approach to interdisciplinary science

Assessing Similarity Between Profiles *2012-01-25*

the single valued neutrosophic set is a subclass of neutrosophic set and has been proposed in recent years an important application for single valued neutrosophic sets is to solve multicriteria decision making problems

A Novel Single-Valued Neutrosophic Set Similarity Measure and Its Application in Multicriteria Decision-Making *2014-12-05*

this book provides an introduction to the decomposition of finitely generated abelian groups and canonical forms of matrices and explores the analogous theory of matrix similarity over a field includes numerous worked examples and exercises with solutions

Finitely Generated Abelian Groups and Similarity of Matrices over a Field *2012-12-06*

a study of marriage in preindustrial europe and asia that goes beyond the malthusian east west dichotomy to find variation within regions and commonality across regions since malthus an east west dichotomy has been used to characterize marriage behavior in asia and europe marriages in asia were said to be early and universal in europe late and non universal in europe marriages were supposed to be the result of individual choices but in asia decided by families and communities this book challenges this binary taxonomy of marriage patterns and family systems drawing on richer and more nuanced data the authors compare the interpretations based on aggregate demographic patterns with studies of individual actions in local populations doing so they are able to analyze simultaneously the influence on marriage decisions of individual demographic features socioeconomic status and composition of the household and local conditions and the interactions of these variables they find differences between east and west but also variation within regions and commonality across regions the book studies local populations in sweden belgium italy japan and china rather than a simple comparison of aggregate marriage patterns it examines marriage outcomes and determinants of local populations in different countries using similar data and methods the authors first present the results of comparative analyses of first marriage and remarriage and then offer chapters each of which is devoted to the results from a specific country similarity in difference is the third in a prizewinning series on the demographic history of eurasia following life under pressure 2004 and prudence and pressure 2009 both published by the mit press

Similarity in Difference 2002-02-26

similarity measure is an important tool in multiple criteria decision making problems which can be used to measure the difference between the alternatives in this paper some new similarity measures of single valued neutrosophic sets svnss and interval valued neutrosophic sets ivnss are defined based on the euclidean distance measure respectively and the proposed similarity measures satisfy the axiom of the similarity measure furthermore we apply the proposed similarity measures to medical diagnosis decision problem the numerical example is used to illustrate the feasibility and effectiveness of the proposed similarity measures of svnss and ivnss which are then compared to other existing similarity measures

Some Similarity Measures of Neutrosophic Sets Based on the Euclidean Distance and Their Application in Medical Diagnosis 1996-12-12

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

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

assessing the degree to which two objects an object and a query or two concepts are similar or compatible is a fundamental component of human reasoning and consequently is critical in the development of automated diagnosis classification information retrieval and decision systems the assessment of similarity has played an important role in such diverse disciplines such as taxonomy psychology and the social sciences each discipline has proposed methods for quantifying similarity judgments suitable for its particular applications this book presents a unified approach to quantifying similarity and compatibility within the framework of fuzzy set theory and examines the primary importance of these concepts in approximate reasoning examples of the application of similarity measures in various areas including expert systems information retrieval and intelligent database systems are provided

Similarity and Compatibility in Fuzzy Set Theory 2017-04-18

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

Scaling, Self-similarity, and Intermediate Asymptotics 2018-09-03

the idea of the q neutrosophic soft set emerges from the neutrosophic soft set by upgrading the membership functions to a two dimensional entity which indicate uncertainty indeterminacy and falsity hence it is able to deal with two dimensional inconsistent imprecise and indeterminate information appearing in real life situations in this study the tools that measure the similarity distance and the degree of fuzziness of q neutrosophic soft sets are presented the definitions of distance similarity and measures of entropy are introduced some formulas for q neutrosophic soft entropy were presented the known hamming euclidean and their normalized distances are generalized to make them well matched with the idea of q neutrosophic soft set the distance measure is subsequently used to define the measure of similarity lastly we expound three applications of the measures of q neutrosophic soft sets by applying entropy and the similarity measure to a medical diagnosis and decision making problems

Scaling and Self-Similarity in Physics *2012-04-07*

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

Entropy, Measures of Distance and Similarity of Q-Neutrosophic Soft Sets and Some Applications 2003-11-21

this book focuses on analytical similarity assessment in biosimilar product development following the fda s recommended stepwise approach for obtaining totality of the evidence for approval of biosimilar products it covers concepts such as the tiered approach for assessment of similarity of critical quality attributes in the manufacturing process of biosimilar products models methods like the statistical model for classification of critical quality attributes equivalence tests for critical quality attributes in tier 1 and the corresponding sample size requirements current issues and recent developments in analytical similarity assessment

Long-Range Dependence and Self-Similarity 2007

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

Analytical Similarity Assessment in Biosimilar Product Development 2012-12-06

amos tversky 1937 1996 a towering figure in cognitive and mathematical psychology devoted his professional life to the study of similarity judgment and decision making he had a unique ability to master the technicalities of normative ideals and then to intuit and demonstrate experimentally their systematic violation due to the vagaries and consequences of human information processing he created new areas of study and helped transform disciplines as varied as economics law medicine political science philosophy and statistics this book collects forty of tversky s articles selected by him in collaboration with the editor during the last months of tversky s life it is divided into three sections similarity judgment and preferences the preferences section is subdivided into probabilistic models of choice choice under risk and uncertainty and contingent preferences included are several articles written with his frequent collaborator nobel prize winning economist daniel kahneman

Similarity and Modeling in Science and Engineering *2001-05-31*

this book explores the importance of cross linguistic similarity in foreign language learning similarities can be perceived in the form of simplified one to one relationships or merely assumed the book outlines the different roles of l1 transfer on comprehension and on production and on close and distant target languages

Preference, Belief, and Similarity *2011-09-25*

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

Cross-linguistic Similarity in Foreign Language Learning *1961*

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

Multidimensional Similarity Structure Analysis *1999-02-18*

the roughness and similarity measure for two different information in the same universal set is useful in explaining the strength and completeness of the information given then for rough neutrosophic multisets environment the lower and upper approximation was a concerned property to study in explaining the roughness of the information needed meanwhile the vectorial models of information which are cosine measure and dice measure represent the result for the similarity measure of rough neutrosophic multisets the finding of this set theory gives a new generalization about similarity measure for multiple information involving indeterminacy information in the same environment besides that the rough neutrosophic multisets theory also applicable set in decision making for medical diagnosis the comparison result showed that the roughness approximation of information is essential to get the best result in a close similarity measure

Fundamentals of Molecular Similarity *1971*

this book constitutes the proceedings of the first international workshop on similarity based pattern recognition simbad 2011 held in venice italy in september 2011 the 16 full papers and 7 poster papers presented were carefully reviewed and selected from 35 submissions the contributions are organized in topical sections on dissimilarity characterization and analysis generative models of similarity data graph based and relational models clustering and dissimilarity data applications spectral methods and embedding

Roughness And Similarity Measure Of Rough Neutrosophic Multisets Using Vectorial Model Of Information *2015-07-07*

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

Similarity-Based Pattern Recognition *1961*

in order to provide a relatively simple heat transfer prediction along a nozzle a differential similar solution analysis for the turbulent boundary layer is developed this analysis along with a new correlation for the turbulent prandtl number gives good agreement of the predicted with the measured heat transfer in the throat and supersonic regiono f the nozzle also the boundary layer variables heat transfer etc can be calculated at any arbitrary location in the throat or supersonic region of the nozzle in less than a half minute of computing time lewis dcs 7094 7044

Boundary-layer Similar Solutions and Correlation Equations for Laminar Heat-transfer Distribution in Equilibrium Air at Velocities Up to 41,100 Feet Per Second *2016-05-28*

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

Advances in Molecular Similarity *2017-07-12*

this book provides a summary of the manifold audio and web based approaches to music information retrieval mir research in contrast to other books dealing solely with music signal processing it addresses additional cultural and listener centric aspects and thus provides a more holistic view consequently the text includes methods operating on features extracted directly from the audio signal as well as methods operating on features extracted from contextual information either the cultural context of music as represented on the web or the user and usage context of music following the prevalent document centered paradigm of information retrieval the book addresses models of music similarity that extract computational features to describe an entity that represents music on any level e g song album or artist and methods to calculate the similarity between them while this perspective and the representations discussed cannot describe all musical dimensions they enable us to effectively find music of similar qualities by providing abstract summarizations of musical artifacts from different modalities the text at hand provides a comprehensive and accessible introduction to the topics of music search retrieval and recommendation from an academic perspective it will not only allow those new to the field to quickly access mir from an information retrieval point of view but also raise awareness for the developments of the music domain within the greater ir community in this regard part i deals with content based mir in particular the extraction of features from the music signal and similarity calculation for content based retrieval part ii subsequently addresses mir methods that make use of the digitally accessible cultural context of music part iii addresses methods of collaborative filtering and user aware and multi modal retrieval while part iv explores current and future applications of music retrieval and recommendation

Similar Solutions for Turbulent Boundary Layer with Large Favorble Pressures Gradients (nozzle Flow with Heat Transfer) *2013-08-30*

multifractal theory was introduced by theoretical physicists in 1986 since then multifractals have increasingly been studied by mathematicians this new work presents the latest research on random results on random multifractals and the physical thermodynamical interpretation of these results as the amount of work in this area increases lars olsen presents a unifying approach to current multifractal theory featuring high quality original research material this important new book fills a gap in the current literature available providing a rigorous mathematical treatment of multifractal measures

Operators for Similarity Search *2012-12-06*

this book constitutes the refereed proceedings of the 6th international conference on similarity search and applications sisap 2013 held in a coruña spain in october 2013 the 19 full papers 6 short papers and 2 demo papers presented were carefully reviewed and selected from 44 submissions the papers are organized in topical sections on new scenarios and approaches improving similarity search methods and techniques metrics and evaluation applications and specific domains and implementation and engineering solutions

Application of Similar Solutions to Calculation of Laminar Heat Transfer on Bodies with Yaw and Large Pressure Gradient in High-speed Flow *2014-05-12*

this book brings together most of the information available concerning two species that diverged 2 3 million years ago the objective was to try to understand why two sibling species

so similar in several characteristics can be so different in others to this end it was crucial to confront all data from their ecology and biogeography with their behavior and dna polymorphism drosophila melanogaster and drosophila simulans are among the two sibling species for which a large set of data is available in this book ecologists physiologists geneticists behaviorists share their data on the two sibling species and several scenarios of evolution are put forward to explain their similarities and divergences this is the first collection of essays of its kind it is not the final point of the analyses of these two species since several areas remain obscure however the recent publication of the complete genome of d melanogaster opens new fields for research this will probably help us explain why d melanogaster and d simulans are sibling species but false friends

Music Similarity and Retrieval 2021-09-02

similarity and dimensional methods in mechanics provides a complete development of the basic concepts of dimensional analysis and similarity methods illustrated by applications to a wide variety of problems in mechanics this book shows the power of dimensional and similarity methods in solving problems in the theory of explosions and astrophysics organized into five chapters this book begins with an overview of the fundamental ideas behind similarity and dimensional methods this text then provides a series of examples of application of the methods other chapters consider the use of similarity and dimensional analysis in developing fundamental contributions to viscous fluid theory this book discusses as well the various theories of isotropic turbulence the final chapter deals with the applications to the theory of the luminosity and internal structure of stars this book is a valuable resource for students who wish to learn dimensional analysis and similarity methods for the first time readers who are connected with the many aspects of gas dynamics including space technology astrophysics and atomic energy will also find this book useful

Random Geometrically Graph Directed Self-Similar Multifractals 2015-04-27

studying language variation requires comprehensive interdisciplinary knowledge and new computational tools this essential reference introduces researchers and graduate students in computer science linguistics and nlp to the core topics in language variation and the computational methods applied to similar languages varieties and dialects

Similarity Search and Applications 2022-08-25

face recognition has several applications including security such as authentication and identification of device users and criminal suspects and in medicine corrective surgery and diagnosis facial recognition programs rely on algorithms that can compare and compute the similarity between two sets of images this ebook explains some of the similarity measures used in facial recognition systems in a single volume readers will learn about various measures including minkowski distances mahalanobis distances hansdorff distances cosine based distances among other methods the book also summarizes errors that may occur in face recognition methods computer scientists facing face and looking to select and test different methods of computing similarities will benefit from this book the book is also useful tool for students undertaking computer vision courses

Drosophila melanogaster, Drosophila simulans: So Similar, So Different 1791

in an era of globalization internationalization of higher education ihe has been constructed as an almost inevitable trend and has become a common pursuit of many nations in their higher education he policies this book focuses on two nations china and australia in terms of this trend the broadest aim of this book was to find out the interactive relationships between global and national pressures in policy development by comparing the international he policies in china and australia the three categories overarching meta policies at the macrolevel nation institution focused policies at the mesolevel universities and people focused policies at the microlevel individuals are documented and analyzed similarities and differences are identified similarities include promoting and deepening ihe as one important agenda in national policies at the macrolevel in the two nations promoting transnational cooperation in the provision of he at the mesolevel as well as increasing international student numbers and encouraging an outflow of student learning and exchanges at the microlevel differences include china s soft power initiatives and australia s appeal for the sustainability of international he as a national priority in the area of ihe at the macrolevel the

focus on world class universities construction in china and strengthening the overall he system in australia and different issues in relation to people mobility and brain circulation specifically encouraging more outflow of students and attracting more inflow of talents and international students in china and over reliance on international students financially in australia it is suggested that different responses to the global trends reflect the specificities of each nation and the ways path dependent factors mediate global pressures this comparison will facilitate a better understanding of how globalization has affected and been responded to in ihe policies and enable a better understanding of their path dependent mediation through a focus on two specific sets of national policies

Similarity and Dimensional Methods in Mechanics 2013-06-29

production of this volume of the handbook if this joint enterprise has succeeded it is thanks to their competence knowledge and application for the editor s role is merely that of a coordinator my thanks are also due to springer verlag the publishers who gave me every possible assistance in seeing this volume to completion dr d maroske was kind enough to prepare the subject index and lastly i should like to voice my indebtedness to the management of sandoz ltd basle which allowed me to devote a not inconsiderable part of my time to the editing of this volume i am also very grateful to a number of members of the staff of sandoz ltd to mr j e smith b sc f 1 l who translated some chapters and revised the language of others and to miss hannelore straube and miss sonja ebner for their valuable secreterial help

Similar Languages, Varieties, and Dialects 2022-02-08

big data thrives on extracting knowledge from a large number of data sets but how is an application possible when a single data set is several gigabytes in size the innovative data compression techniques from the field of machine learning and modeling using bayesian networks which have been theoretically developed and practically implemented here can reduce these huge amounts of data to a manageable size by eliminating redundancies in location time and between simulation results data reductions to less than 1 of the original size are possible the developed method represents a promising approach whose use goes far beyond the application example of crash test simulations chosen here

Similarity Measures for Face Recognition 1951

the idea of the iterative transformation procedure suggested by h wielandt is explained application of the procedure to ordinary natural vibration problems and to flutter problems is shown in numerical examples comparisons of computed results by other methods or analysis are made

Internationalizing Higher Education with National Characteristics: Similar Global Trends but Different Responses 1886

Extracts, Elegant, Instructive, & Entertaining, in Poetry ... Being Similar in Design to Extracts in Prose

Neurohypophysial Hormones and Similar Polypeptides.

Compression of an array of similar crash test simulation results

An Iterative Transformation Procedure for Numerical Solution of Flutter and Similar Characteristic-value Problems

Municipal Government and Land Tenure