Dynamics Of Structures Theory And Applications To Earthquake Engineering

Performance Tools and Applications to Networked SystemsConvergence Structures and Applications to Functional AnalysisGeophysical Data Inversion Methods and ApplicationsParallel and Distributed Processing and ApplicationsData Science – Analytics and ApplicationsOptimization Theory and ApplicationsSaks Spaces and Applications to Functional AnalysisNonlinear Analysis Theory and ApplicationsDigital Computer Applications to Process ControlChemical Technology; Or, Chemistry in Its Applications to the Arts and ManufacturesMulti-Composed Programming with Applications to Facility LocationPrinciples, Systems and Applications of IP Telecommunications. Services and Security for Next Generation NetworksIncomplete Decomposition (ILU) — Algorithms, Theory, and ApplicationsNetwork-Embedded Management and ApplicationsReal-Time Simulation Technologies: Principles, Methodologies, and ApplicationsSemantic Web Services, Processes and ApplicationsAd Hoc And Sensor Networks: Theory And Applications (2nd Edition)Emerging Trends in Intelligent and Interactive Systems and ApplicationsProceedings of the International Conference on Information Engineering and Applications (IEA) 2012Global Implications of Modern Enterprise Information Systems: Technologies and ApplicationsTeacher Education: Concepts, Methodologies, Tools, and ApplicationsGeographic Information Systems: Concepts, Methodologies, Tools, and ApplicationsSmartphone Applications to Influence Travel ChoicesLeveraging Applications of Formal Methods, Verification and Validation. Specialized Techniques and ApplicationsComputational Techniques And Applications: Ctac 97 - Proceedings Of The Eight Biennial ConferenceInformation Science and ApplicationsAdvanced Information Networking and ApplicationsTransforming Remote Sensing Data into Information and ApplicationsResearch Anthology on Machine Learning Techniques, Methods, and ApplicationsUML Modeling Languages and ApplicationsConceptual Modeling: Foundations and ApplicationsSemiconductor Wafer Bonding VII : Science, Technology,

and ApplicationsRobotic Systems: Concepts, Methodologies, Tools, and ApplicationsProgressive Decision-Making Tools and Applications in Project and Operation ManagementData and Applications Security and Privacy XXVIISyntactic And Structural Pattern Recognition - Theory And ApplicationsAdvances and Applications of DSmT for Information Fusion (Collected Works. Volume 5)On Singularity Properties of Word Maps and Applications to Probabilistic Waring Type ProblemsRecent Trends on Type-2 Fuzzy Logic Systems: Theory, Methodology and Applications3D and 4D Printing in Biomedical Applications Maria Carla Calzarossa R. Beattie Andreas Vogel Ivan Stojmenovic Peter Haber Jochen Werner Reinhard Kluge M. Paul Edmund Ronalds Oleg Wilfer Henning Schulzrinne Wolfgang Hackbusch Alexander Clemm Katalin Popovici Jorge Cardoso Carlos De Morais Cordeiro Madjid Tavana Zhicai Zhong Gunasekaran, Angappa Management Association, Information Resources Management Association, Information Resources Transportation Dept., Federal Highway Administration Tiziana Margaria John Noye Kuinam J. Kim Leonard Barolli National Research Council Management Association, Information Resources Nuno Jardim Nunes Alex T. Borgida Management Association, Information Resources Mohammad Yazdi Lingyu Wang Horst Bunke Florentin Smarandache Itay Glazer Oscar Castillo Mohammed Maniruzzaman

Performance Tools and Applications to Networked Systems Convergence Structures and Applications to Functional Analysis Geophysical Data Inversion Methods and Applications Parallel and Distributed Processing and Applications Data Science – Analytics and Applications Optimization Theory and Applications Saks Spaces and Applications to Functional Analysis Nonlinear Analysis Theory and Applications Digital Computer Applications to Process Control Chemical Technology; Or, Chemistry in Its Applications to the Arts and Manufactures Multi-Composed Programming with Applications to Facility Location Principles, Systems and Applications of IP Telecommunications. Services and Security for Next Generation Networks Incomplete Decomposition (ILU) — Algorithms, Theory, and Applications Network-Embedded Management and Applications Real-Time Simulation Technologies: Principles, Methodologies, and Applications Semantic Web Services, Processes and Applications Ad Hoc And Sensor Networks: Theory And Applications (2nd Edition) Emerging Trends in Intelligent and Interactive Systems and Applications Proceedings of the International Conference on Information Engineering and Applications (IEA) 2012 Global Implications of Modern Enterprise Information Systems: Technologies and

Applications Teacher Education: Concepts, Methodologies, Tools, and Applications Geographic Information Systems: Concepts, Methodologies, Tools, and Applications Smartphone Applications to Influence Travel Choices Leveraging Applications of Formal Methods, Verification and Validation. Specialized Techniques and Applications Computational Techniques And Applications: Ctac 97 - Proceedings Of The Eight Biennial Conference Information Science and Applications Advanced Information Networking and Applications Transforming Remote Sensing Data into Information and Applications Research Anthology on Machine Learning Techniques, Methods, and Applications UML Modeling Languages and Applications Conceptual Modeling: Foundations and Applications Semiconductor Wafer Bonding VII : Science, Technology, and Applications Robotic Systems: Concepts, Methodologies, Tools, and Applications Progressive Decision-Making Tools and Applications in Project and Operation Management Data and Applications Security and Privacy XXVII Syntactic And Structural Pattern Recognition - Theory And Applications Advances and Applications of DSmT for Information Fusion (Collected Works. Volume 5) On Singularity Properties of Word Maps and Applications to Probabilistic Waring Type Problems Recent Trends on Type-2 Fuzzy Logic Systems: Theory, Methodology and Applications 3D and 4D Printing in Biomedical Applications *Maria Carla Calzarossa R. Beattie Andreas Vogel Ivan Stojmenovic Peter Haber Jochen Werner Reinhard Kluge M. Paul Edmund Ronalds Oleg Wilfer Henning Schulzrinne Wolfgang Hackbusch Alexander Clemm Katalin Popovici Jorge Cardoso Carlos De Morais Cordeiro Madjid Tavana Zhicai Zhong Gunasekaran, Angappa Management Association, Information Resources Management Association, Information Resources Transportation Dept., Federal Highway Administration Tiziana Margaria John Noye Kuinam J. Kim Leonard Barolli National Research Council Management Association, Information Resources Nuno Jardim Nunes Alex T. Borgida Management Association, Information Resources Mohammad Yazdi Lingyu Wang Horst Bunke Florentin Smarandache Itay Glazer Oscar Castillo Mohammed Maniruzzaman*

this book presents revised versions of tutorial lectures given at the ieee cs symposium on modeling analysis and simulation of computer and telecommunication systems held in orlando fl usa in october 2003 the lectures are grouped in three parts on performance and qos of modern wired and wireless networks current advances in performance modeling and simulation and other specific applications of these methodologies this tutorial book is targeted to both practitioners and researchers

the practitioner will benefit from numerous pointers to performance and qos issues the pedagogical style and plenty of references can be of great use in solving practical problems the researcher and advanced student are offered a representative set of topics not only for their research value but also for their novelty and use in identifying areas of active research

this text offers a rigorous introduction into the theory and methods of convergence spaces and gives concrete applications to the problems of functional analysis while there are a few books dealing with convergence spaces and a great many on functional analysis there are none with this particular focus the book demonstrates the applicability of convergence structures to functional analysis highlighted here is the role of continuous convergence a convergence structure particularly appropriate to function spaces it is shown to provide an excellent dual structure for both topological groups and topological vector spaces readers will find the text rich in examples of interest as well are the many filter and ultrafilter proofs which often provide a fresh perspective on a well known result audience this text will be of interest to researchers in functional analysis analysis and topology as well as anyone already working with convergence spaces it is appropriate for senior undergraduate or graduate level students with some background in analysis and topology

this book constitutes the refereed proceedings of the 5th international symposium on parallel and distributed processing and applications ispa 2007 held in niagara falls canada in august 2007 the 83 revised full papers presented together with three keynote are cover algorithms and applications architectures and systems datamining and databases fault tolerance and security middleware and cooperative computing networks as well as software and languages

this book offers the proceedings of the second international data science conference idsc2019 organized by salzburg university of applied sciences austria the conference brought together researchers scientists and business experts to discuss new ways of embracing agile approaches to various facets of data science including machine learning and artificial intelligence data mining data visualization and communication the papers gathered here include case studies of applied techniques and theoretical papers that push the field into the future the full length scientific track papers on data analytics

are broadly grouped by category including complexity nlp and semantics modelling and comprehensibility included among real world applications of data science are papers on exploring insider trading using hypernetworks data driven approach to detection of autism spectrum disorder anonymization and sentiment analysis of twitter posts theoretical papers in the book cover such topics as optimal regression tree models through mixed integer programming chance influence in datasets with large number of features adversarial networks a technology for image augmentation and optimal regression tree models through mixed integer programming five shorter student track papers are also published here on topics such as state of the art deep learning methods to effect neural machine translation from natural language into sql a smart recommendation system to simplify projecting for a hmi scada platform use of adversarial networks as a technology for image augmentation using supervised learning to predict the reliability of a welding process the work collected in this volume of proceedings will provide researchers and practitioners with a detailed snapshot of current progress in the field of data science moreover it willstimulate new study research and the development of new applications

saks spaces and applications to functional analysis

keine ausführliche beschreibung für nonlinear analysis theory and applications verfügbar

considers the application of modern control engineering on digital computers with a view to improving productivity and product quality easing supervision of industrial processes and reducing energy consumption and pollution the topics covered may be divided into two main subject areas 1 applications of digital control in the chemical and oil industries in water turbines energy and power systems robotics and manufacturing cement metallurgical processes traffic control heating and cooling 2 systems theoretical aspects of digital control adaptive systems control aspects multivariable systems optimization and reliability modelling and identification real time software and languages distributed systems and data networks contains 84 papers

oleg wilfer presents a new conjugate duality concept for geometric and cone constrained optimization problems whose

objective functions are a composition of finitely many functions as an application the author derives results for single minmax location problems formulated by means of extended perturbed minimal time functions as well as for multi facility minmax location problems defined by gauges in addition he provides formulae of projections onto the epigraphs of gauges to solve these kinds of location problems numerically by using parallel splitting algorithms numerical comparisons of recent methods show the excellent performance of the proposed solving technique about the author dr oleg wilfer received his phd at the faculty of mathematics of chemnitz university of technology germany he is currently working as a development engineer in the automotive industry

this book constitutes the thoroughly refereed proceedings of the 10th international workshop on principles systems and applications of ip telecommunications held in heidelberg germany in july 2008 the 16 full papers presented were carefully reviewed and selected from a total of 56 submissions topics covered include recent advances in the domains of convergent networks voip security and multimedia service environments for next generation networks

despite the explosion of networking services and applications in the past decades the basic technological underpinnings of the internet have remained largely unchanged at its heart are special purpose appliances that connect us to the digital world commonly known as switches and routers now however the traditional framework is being increasingly challenged by new methods that are jostling for a position in the next generation internet the concept of a network that is becoming more programmable is one of the aspects that are taking center stage this opens new possibilities to embed software applications inside the network itself and to manage networks and communications services with unprecedented ease and efficiency in this edited volume distinguished experts take the reader on a tour of different facets of programmable network infrastructure and applications that exploit it presenting the state of the art in network embedded management and applications and programmable network infrastructure the book conveys fundamental concepts and provides a glimpse into various facets of the latest technology in the field

real time simulation technologies principles methodologies and applications is an edited compilation of work that explores

fundamental concepts and basic techniques of real time simulation for complex and diverse systems across a broad spectrum useful for both new entrants and experienced experts in the field this book integrates coverage of detailed theory acclaimed methodological approaches entrenched technologies and high value applications of real time simulation all from the unique perspectives of renowned international contributors because it offers an accurate and otherwise unattainable assessment of how a system will behave over a particular time frame real time simulation is increasingly critical to the optimization of dynamic processes and adaptive systems in a variety of enterprises these range in scope from the maintenance of the national power grid to space exploration to the development of virtual reality programs and cyber physical systems this book outlines how for these and other undertakings engineers must assimilate real time data with computational tools for rapid decision making under uncertainty clarifying the central concepts behind real time simulation tools and techniques this one of a kind resource discusses the state of the art important challenges and high impact developments in simulation technologies provides a basis for the study of real time simulation as a fundamental and foundational technology helps readers develop and refine principles that are applicable across a wide variety of application domains as science moves toward more advanced technologies unconventional design approaches and unproven regions of the design space simulation tools are increasingly critical to successful design and operation of technical systems in a growing number of application domains this must have resource presents detailed coverage of real time simulation for system design parallel and distributed simulations industry tools and a large set of applications

semantics services and processes promise better re use universal interoperability and integration semantics has been recognized as the primary tool to address the challenges of a broad spectrum of heterogeneity and for improving automation through machine understandable descriptions semantic services processes and applications brings contributions from researchers who study explore and understand the semantic enabling of all phases of semantic processes this encompasses design annotation discovery choreography and composition also this book presents fundamental capabilities and techniques associated with ontological modeling or services annotation matching and mapping and reasoning this is complemented by discussion of applications in e government and bioinformatics special bulk rates are available for course

adoption through publishing editor

this book provides a comprehensive yet easy coverage of ad hoc and sensor networks and fills the gap of existing literature in this growing field it emphasizes that there is a major interdependence among various layers of the network protocol stack contrary to wired or even one hop cellular networks the lack of a fixed infrastructure the inherent mobility the wireless channel and the underlying routing mechanism by ad hoc and sensor networks introduce a number of technological challenges that are difficult to address within the boundaries of a single protocol layer all existing textbooks on the subject often focus on a specific aspect of the technology and fail to provide critical insights on cross layer interdependencies to fully understand these intriguing networks one need to grasp specific solutions individually and also the many interdependencies and cross layer interactions

this book reports on the proceeding of the 5th international conference on intelligent interactive systems and applications iisa 2020 held in shanghai china on september 25 27 2020 the iisa proceedings with the latest scientific findings and methods for solving intriguing problems are a reference for state of the art works on intelligent and interactive systems this book covers nine interesting and current topics on different systems orientations including analytical systems database management systems electronics systems energy systems intelligent systems network systems optimization systems and pattern recognition systems and applications the chapters included in this book cover significant recent developments in the field both in terms of theoretical foundations and their practical application an important characteristic of the works included here is the novelty of the solution approaches to the most interesting applications of intelligent and interactive systems

information engineering and applications is the field of study concerned with constructing information computing intelligent systems mathematical models numerical solution techniques and using computers and other electronic devices to analyze and solve natural scientific social scientific and engineering problems information engineering is an important underpinning for techniques used in information and computational science and there are many unresolved problems worth studying the

proceedings of the 2nd international conference on information engineering and applications iea 2012 which was held in chongqing china from october 26 28 2012 discusses the most innovative research and developments including technical challenges and social legal political and economic issues a forum for engineers and scientists in academia industry and government the proceedings of the 2nd international conference on information engineering and applications presents ideas results works in progress and experience in all aspects of information engineering and applications

this book presents useful strategies techniques and tools for the successful design development and implementation of enterprise information systems provided by publisher

educators play a significant role in the intellectual and social development of children and young adults next generation teachers can only be as strong as their own educational foundation which serves to cultivate their knowledge of the learning process uncover best practices in the field of education and employ leadership abilities that will inspire students of all ages teacher education concepts methodologies tools and applications explores the current state of pre service teacher programs as well as continuing education initiatives for in service educators emphasizing the growing role of technology in teacher skill development and training as well as key teaching methods and pedagogical developments this multi volume work compiles research essential to higher education professionals and administrators educational software developers and researchers studying pre service and in service teacher training

developments in technologies have evolved in a much wider use of technology throughout science government and business resulting in the expansion of geographic information systems gis is the academic study and practice of presenting geographical data through a system designed to capture store analyze and manage geographic information geographic information systems concepts methodologies tools and applications is a collection of knowledge on the latest advancements and research of geographic information systems this book aims to be useful for academics and practitioners involved in geographical data

this primer is intended to demonstrate how vital smartphones are becoming to the transportation network and provide public agencies transportation managers and elected officials with a perspective and understanding the role of smartphones in identifying services and choices for individuals and influencing travel behavior whether a sophisticated or new adapter to smart phones this publication provides the foundation to maximize the value of this new technology as well as a history of how the technology has developed and could benefit commuters this report also outlines the challenges including protecting consumer privacy and data that is more widely available through thie smartphone apps other products that may be of interest youtube war fighting in a world of cameras in every cell phone and photoshop on every computer can be found here bookstore gpo gov products sku 008 000 01071 4 transportation security collection can be found here bookstore gpo gov catalog security defense law enforcement transportation security other publications produced by the united states department of transportation can be found here bookstore gpo gov agency 199

the two volume set lncs 8802 and lncs 8803 constitutes the refereed proceedings of the 6th international symposium on leveraging applications of formal methods verification and validation isola 2014 held in imperial corfu greece in october 2014 the total of 67 full papers was carefully reviewed and selected for inclusion in the proceedings featuring a track introduction to each section the papers are organized in topical sections named evolving critical systems rigorous engineering of autonomic ensembles automata learning formal methods and analysis in software product line engineering model based code generators and compilers engineering virtualized systems statistical model checking risk based testing medical cyber physical systems scientific workflows evaluation and reproducibility of program analysis processes and data integration in the networked healthcare semantic heterogeneity in the formal development of complex systems in addition part i contains a tutorial on automata learning in practice as well as the preliminary manifesto to the lncs transactions on the foundations for mastering change with several position papers part ii contains information on the industrial track and the doctoral symposium and poster session

this proceedings volume contains three invited papers and 93 contributed papers the topics covered range from studies of theoretical aspects of computational methods to simulation of industrial processes with an emphasis on the efficient use of

computers to solve practical problems developers and users of computational techniques who wish to keep up with recent developments in the application of modern computational technology to problems in science and engineering will have much interest in this volume

this book presents selected papers from the 10th international conference on information science and applications icisa 2019 held on december 16 18 2019 in seoul korea and provides a snapshot of the latest issues regarding technical convergence and convergences of security technologies it explores how information science is at the core of most current research as well as industrial and commercial activities the respective chapters cover a broad range of topics including ubiquitous computing networks and information systems multimedia and visualization middleware and operating systems security and privacy data mining and artificial intelligence software engineering and web technology as well as applications and problems related to technology convergence which are reviewed and illustrated with the aid of case studies researchers in academia industry and at institutes focusing on information science and technology will gain a deeper understanding of the current state of the art in information strategies and technologies for convergence security

networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing communications intelligence and actuations are emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications several of such applications have been difficult to realize because of many interconnections problems to fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks this volume covers the theory design and applications of computer networks distributed computing and information systems the aim of the volume advanced information networking and applications is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of

information networking and applications

over the past decade renewed interest in practical applications of earth observations from space has coincided with and been fueled by significant improvements in the availability of remote sensing data and in their spectral and spatial resolution in addition advances in complementary spatial data technologies such as geographic information systems and the global positioning system have permitted more varied uses of the data during the same period the institutions that produce remote sensing data have also become more diversified in the united states satellite remote sensing was until recently dominated largely by federal agencies and their private sector contractors however private firms are increasingly playing a more prominent role even a leadership role in providing satellite remote sensing data through either public private partnerships or the establishment of commercial entities that serve both government and private sector earth observation needs in addition a large number of private sector value adding firms have been established to work with end users of the data these changes some technological some institutional and some financial have implications for new and continuing uses of remote sensing data to gather data for exploring the importance of these changes and their significance for a variety of issues related to the use of remote sensing data the space studies board initiated a series of three workshops the first moving remote sensing from research to applications case studies of the knowledge transfer process was held in may 2000 this report draws on data and information obtained in the workshop planning meeting with agency sponsors information presented by workshop speakers and in splinter group discussions and the expertise and viewpoints of the authoring steering committee on space applications and commercialization the recommendations are the consensus of the steering committee and not necessarily of the workshop participants

machine learning continues to have myriad applications across industries and fields to ensure this technology is utilized appropriately and to its full potential organizations must better understand exactly how and where it can be adapted further study on the applications of machine learning is required to discover its best practices challenges and strategies the research anthology on machine learning techniques methods and applications provides a thorough consideration of the innovative and emerging research within the area of machine learning the book discusses how the technology has been

used in the past as well as potential ways it can be used in the future to ensure industries continue to develop and grow covering a range of topics such as artificial intelligence deep learning cybersecurity and robotics this major reference work is ideal for computer scientists managers researchers scholars practitioners academicians instructors and students

this book constitutes the thoroughly refereed joint postproceedings of the satellite activities held at the 7th international conference on the unified modeling language uml 2004 in lisbon portugal in october 2004 complementing the main conference track the book presents reports on the 10 workshops held at uml and covers a broad range of topics around systems modelling these reports are compiled by the respective workshop organizers furthermore 12 revised reviewed papers from the industry track are included as well as 11 short papers corresponding to selected poster demo presentations and a summary on the uml tools exhibition

this festschrift volume published in honor of john mylopoulos on the occasion of his retirement from the university of toronto contains 25 high quality papers written by leading scientists in the field of conceptual modeling the volume has been divided into six sections the first section focuses on the foundations of conceptual modeling and contains material on ontologies and knowledge representation the four sections on software and requirements engineering information systems information integration and web and services represent the chief current application domains of conceptual modeling finally the section on implementations concentrates on projects that build tools to support conceptual modeling with its in depth coverage of diverse topics this book could be a useful companion to a course on conceptual modeling

through expanded intelligence the use of robotics has fundamentally transformed a variety of fields including manufacturing aerospace medicine social services and agriculture continued research on robotic design is critical to solving various dynamic obstacles individuals enterprises and humanity at large face on a daily basis robotic systems concepts methodologies tools and applications is a vital reference source that delves into the current issues methodologies and trends relating to advanced robotic technology in the modern world highlighting a range of topics such as mechatronics cybernetics and human computer interaction this multi volume book is ideally designed for robotics engineers mechanical

engineers robotics technicians operators software engineers designers programmers industry professionals researchers students academicians and computer practitioners seeking current research on developing innovative ideas for intelligent and autonomous robotics systems

in today s complex operational environments leveraging advanced decision making tools becomes imperative particularly in uncertain scenarios this book deepens the nuances of employing state of the art decision making methodologies within various industrial sectors for optimal project and operations management the essence of integrating these advanced tools is to equip professionals with pivotal insights for cost effective management and to strategize against potential operational shortcomings furthermore the methodologies elucidated provide a robust foundation for crafting informed risk centric strategies that uphold the integrity of operations across diverse application domains readers will discover a rich tapestry of methodologies tailored for engineers and analysts deeply rooted in mathematical modeling these approaches are complemented by human judgment and participation fundamental attributes of these methods include the evaluation of alternatives benchmarking againstcriteria assigning scores based on varying requirements and assigning weights to denote the significance of individual criteria vis à vis others the book embarks on a structured journey commencing with a comprehensive review of evolving decision making methodologies in project and operations management enriched by metadata analysis subsequent chapters are meticulously organized each spotlighting a distinct approach topics span foundational concepts in decision making the nuances of performance metrics in the digital age and the implications of emerging technologies on operations management targeted towards professionals and researchers immersed in project and operations management this work will also immensely benefit postgraduate and undergraduate students in related fields moreover its relevance extends to professionals across diverse sectors from oil and gas marine and offshore and renewable energies to chemical complexes manufacturing and healthcare systems

this book constitutes the refereed proceedings of the 27th ifip wg 11 3 international conference on data and applications security and privacy dbsec 2013 held in newark nj usa in july 2013 the 16 revised full and 6 short papers presented were carefully reviewed and selected from 45 submissions the papers are organized in topical sections on privacy access control

cloud computing data outsourcing and mobile computing

this book is currently the only one on this subject containing both introductory material and advanced recent research results it presents at one end fundamental concepts and notations developed in syntactic and structural pattern recognition and at the other reports on the current state of the art with respect to both methodology and applications in particular it includes artificial intelligence related techniques which are likely to become very important in future pattern recognition the book consists of individual chapters written by different authors the chapters are grouped into broader subject areas like syntactic representation and parsing structural representation and matching learning etc each chapter is a self contained presentation of one particular topic in order to keep the original flavor of each contribution no efforts were undertaken to unify the different chapters with respect to notation naturally the self containedness of the individual chapters results in some redundancy however we believe that this handicap is compensated by the fact that each contribution can be read individually without prior study of the preceding chapters a unification of the spectrum of material covered by the individual chapters is provided by the subject and author index included at the end of the book

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

view the abstract

this book covers the introduction theory development and applications of type 2 fuzzy logic systems which represent the current state of the art in various domains such as control applications power plants health care image processing mathematical applications etc the book is also rich in discussing different applications in order to give the researchers a flavor of how type 2 fuzzy logic is designed for different types of problems type 2 fuzzy logic systems are now used extensively in engineering applications for many purposes in simple language this book covers the practical use of type 2 fuzzy logic and its optimization through different training methods furthermore this book maintains the relationship between mathematics and practical implementations in the real world this book chapter also contains the proper comparisons with available literature work it shows that the presented enhanced techniques have better results this book would serve as a handy reference guide for a variety of readers primarily targeting research scholars undergraduate and postgraduate researchers and practicing engineers working in type 2 fuzzy logic systems and their applications

a professional guide to 3d and 4d printing technology in the biomedical and pharmaceutical fields 3d and 4d printing in biomedical applications offers an authoritative guide to 3d and 4d printing technology in the biomedical and pharmaceutical arenas with contributions from an international panel of academic scholars and industry experts this book contains an overview of the topic and the most current research and innovations in pharmaceutical and biomedical applications this important volume explores the process optimization innovation process engineering and platform technology behind printed medicine in addition information on biomedical developments include topics such as on shape memory polymers 4d bio fabrications and bone printing the book covers a wealth of relevant topics including information on the potential of 3d printing for pharmaceutical drug delivery examines a new fabrication process bio scaffolding and reviews the most current trends and challenges in biofabrication for 3d and 4d bioprinting this vital resource offers a comprehensive guide to 3d and 4d printing technology in the biomedical and pharmaceutical fields includes information on the first 3d printing platform to get fda approval for a pharmaceutical product contains a review of the current 3d printed pharmaceutical products presents recent advances of novel materials for 3d 4d printing and biomedical applications written for pharmaceutical chemists

medicinal chemists biotechnologists pharma engineers 3d and 4d printing in biomedical applications explores the key aspects of the printing of medical and pharmaceutical products and the challenges and advances associated with their development

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Delving into the Nuances of "Main Antonym": More Than Just Opposites

This article aims to explore the concept of the "main antonym," a term often implicitly used but rarely explicitly defined. While the simple understanding of antonyms as words with opposite meanings holds true, the identification of a main antonym requires a deeper dive into semantic relationships and contextual nuances. We will examine the criteria for determining a main antonym, explore different types of antonyms, and clarify how context influences antonym selection. This nuanced understanding is crucial for accurate linguistic analysis and effective communication.

Defining "Main Antonym": A Semantic Exploration

The term "main antonym" refers to the antonym that most directly and comprehensively opposes a given word, representing the strongest and most fundamental contrast in meaning. It's not simply about finding any word that contrasts; it's about identifying the word that captures the most significant opposite. This "main" antonym often reflects the core semantic feature of the word in question. For instance, the main antonym of "hot" isn't merely "cold," but it's more accurately "cold" when referring to temperature, rather than "lukewarm" which represents a weaker opposition. The difference lies in the degree and nature of opposition.

Types of Antonyms and their Relation to Main Antonyms

Understanding the various types of antonyms is essential to grasp the concept of a main antonym. These include: Binary Antonyms (Complementary Antonyms): These pairs represent absolute opposites, where one negates the other entirely. There's no middle ground. Examples include "dead/alive," "married/single," and "present/absent." In these cases, identifying the main antonym is straightforward. There is no other stronger opposite. Gradable Antonyms: These antonyms represent opposite ends of a scale or spectrum. Examples are "hot/cold," "big/small," "happy/sad." Here, the main antonym will depend on the context. "Cold" is the main antonym of "hot" in the context of temperature, while "lukewarm" is not. The degree of opposition dictates the "main" status. Relational Antonyms (Converse Antonyms): These antonyms represent relationships where one term implies the other. For example, "teacher/student," "buy/sell," "above/below." The main antonym here is inherent in the reciprocal nature of the relationship. Multi-Antonymous Words: Some words have multiple antonyms, each representing a different facet of their meaning. "Shallow" can have antonyms like "deep" (referring to depth), "profound" (referring to intellectual depth), or "superficial" (referring to lack of thoroughness). In such cases, selecting the "main" antonym depends entirely on the context and the specific aspect of the word being contrasted.

Context and the Determination of Main Antonyms

Context plays a crucial role in determining the main antonym. The same word can have different main antonyms depending on its usage. For instance: "Fast": In the context of speed, its main antonym is "slow." However, in the context of securely fastened, its main antonym might be "loose." The context defines the relevant semantic feature, which, in turn, dictates the main antonym. "Open": Its main antonym could be "closed" (referring to physical state), "secret" (referring to information), or "reserved" (referring to personality).

Identifying the Main Antonym: A Practical Approach

To identify the main antonym, consider the following steps: 1. Identify the core meaning: Determine the central semantic feature of the word. 2. Consider the context: Evaluate the specific usage of the word in a sentence or phrase. 3. Evaluate potential antonyms: Brainstorm words that represent opposites. 4. Assess the degree of opposition: Choose the antonym that represents the most significant and comprehensive contrast.

Conclusion

The concept of the "main antonym" highlights the complexities of semantic relationships. It underscores that antonyms are not simply interchangeable opposites; their relevance and strength are heavily context-dependent. Understanding the various types of antonyms and the crucial role of context in selecting the "main" opposition enables more precise linguistic analysis and more effective communication. It encourages a deeper understanding of how words interact and create meaning.

FAQs

1. Can a word have more than one main antonym? While typically a word has one primary main antonym, it's possible in nuanced contexts where different aspects of the word's meaning are emphasized. 2. How do I handle words with multiple antonyms in a given context? Prioritize the antonym that directly opposes the most significant aspect of the word's meaning within the specific context. 3. Is there a definitive rule to find the main antonym? No, it's more of a reasoned judgment based on understanding the semantic features of the word and the context of its use. 4. Are dictionaries helpful in identifying main antonyms? Dictionaries can be helpful in identifying potential antonyms, but they may not explicitly label

a "main" antonym. Careful contextual consideration is crucial. 5. Is the concept of "main antonym" subjective? To some extent, yes. However, through a structured approach focusing on core meaning and context, a high degree of objectivity can be achieved.

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