

Cognition Theories And Applications

Handbook of Research on Hydroinformatics: Technologies, Theories and Applications Bio-Inspired Computing: Theories and Applications Computational Intelligence: Theories, Applications and Future Directions - Volume II Computer Vision, Imaging and Computer Graphics Theory and Applications Artificial Intelligence for DevOps and Site Reliability Engineering: Theories, Applications, and Future Directions Modern Electronic Structure Theory And Applications In Organic Chemistry New Trends in Neutrosophic Theory and Applications Systems: Approaches, Theories, Applications Introduction to Soliton Theory: Applications to Mechanics Ontological Semantics Gasmelseid, Tagelsir Mohamed Linqiang Pan Nishchal K. Verma Ana Paula Cláudio Swarup Panda Ernest R Davidson Florentin Smarandache (editor) W.E. Hartnett Ligia Munteanu Sergei Nirenburg

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this book provides relevant theoretical frameworks and empirical research findings in the area hydroinformatics to assist professionals to improve their understanding of the development and use of decision support tools to support decision making and integrated water management at different organizational levels and domains provided by publisher

the two volume set ccis 2061 and 2062 constitutes the refereed post conference proceedings of the 18th international conference on bio inspired computing theories and applications bic ta 2023 held in changsha china during december 15 17 2023 the 64 revised full papers presented in these proceedings were carefully reviewed and selected from 168 submissions the papers are organized in the following topical sections volume i evolutionary computation and swarm intelligence and

membrane computing and dna computing volume ii machine learning and applications and intelligent control and application

this book presents selected proceedings of icci 2017 discussing theories applications and future directions in the field of computational intelligence ci icci 2017 brought together international researchers presenting innovative work on self adaptive systems and methods this volume covers the current state of the field and explores new open research directions the book serves as a guide for readers working to develop and validate real time problems and related applications using computational intelligence it focuses on systems that deal with raw data intelligently generate qualitative information that improves decision making and behave as smart systems making it a valuable resource for researchers and professionals alike

this book constitutes thoroughly revised and selected papers from the 14th international joint conference on computer vision imaging and computer graphics theory and applications visigrapp 2019 held in prague czech republic in february 2019 the 25 thoroughly revised and extended papers presented in this volume were carefully reviewed and selected from 395 submissions the papers contribute to the understanding of relevant trends of current research on computer graphics human computer interaction information visualization computer vision

this book offers an in depth examination of the transformative impact artificial intelligence ai and machine learning ml have on devops and site reliability engineering sre it sits at the intersection of the cutting edge in ai and at how actual operations can use smart technology to refine your ci cd pipeline tell when incidents are rolling your way help to automate resolution and improve the eyes on monitoring readers will learn complete details on ai driven observability finding anomalies performance tuning and capacity planning helping organizations to predict failures improve up times and accelerate software with a rock rock solid foundation with clear and detailed explanations bolstered by case studies with leaders from the industry and actionable frameworks to implementation devops engineers sre professionals and it executives will learn how to effectively operationalize ai within their environments it also includes critical content on ai ethics transparency and governance a must for today s high stakes production environments readers will walk away fully prepared to use ai to automate the repetitive and time consuming tasks based on data and to make data informed decisions that strengthen their infrastructure and deliver operational excellence

this volume focuses on the use of quantum theory to understand and explain experiments in organic chemistry high level ab initio calculations when properly performed are useful in making quantitative distinctions between various possible interpretations of structures reactions and spectra chemical reasoning based on simpler quantum models is however essential to enumerating the likely possibilities the simpler models also often suggest the type of wave function likely to be

involved in ground and excited states at various points along reaction paths this preliminary understanding is needed in order to select the appropriate higher level approach since most higher level models are designed to describe improvements to some reasonable zeroth order wave function consequently most of the chapters in this volume begin with experimental facts and model functions and then progress to higher level theory only when quantitative results are required in the first chapter zimmerman discusses a wide variety of thermal and photochemical reactions of organic molecules gronert discusses the use of ab initio calculations and experimental facts in deciphering the mechanism of β elimination reactions in the gas phase bettinger et al focus on carbene structures and reactions with comparison of the triplet and singlet states next hrovat and borden discuss more general molecules with competitive triplet and singlet contenders for the ground state structure cave explains the difficulties and considerations involved with many of the methods and illustrates the difficulties by comparing with the uv spectra of short polyenes jordan et al discuss long range electron transfer using model compounds and model hamiltonians finally hiberty discusses the breathing orbital valence bond model as a different approach to introducing the crucial π correlation that is known to be important in organic reactions

neutrosophic theory and applications have been expanding in all directions at an astonishing rate especially after the introduction the journal entitled neutrosophic sets and systems new theories techniques algorithms have been rapidly developed one of the most striking trends in the neutrosophic theory is the hybridization of neutrosophic set with other potential sets such as rough set bipolar set soft set hesitant fuzzy set etc the different hybrid structure such as rough neutrosophic set single valued neutrosophic rough set bipolar neutrosophic set single valued neutrosophic hesitant fuzzy set etc are proposed in the literature in a short period of time neutrosophic set has been a very important tool in all various areas of data mining decision making e learning engineering medicine social science and some more the book new trends in neutrosophic theories and applications focuses on theories methods algorithms for decision making and also applications involving neutrosophic information some topics deal with data mining decision making e learning graph theory medical diagnosis probability theory topology and some more 30 papers by 39 authors and coauthors

for many years i have believed in a particular style of education for myself the idea is to focus on matters that you want to learn about find a modest amount of money and then organize a symposium of those matters inviting knowledgeable individuals to participate and by extension to come and help with my education the eighth george hudson symposium held at plattsburgh new york on april 11 12 1975 was another attempt on my part to learn something the ostensible reason for the symposium was explained in the announce ment of the symposium as follows systems theory is currently one of the exciting areas of intellectual activity attracting persons from diverse disciplines in fact it has almost become the prototype of inter disciplinary effort as such it needs the interchange of ideas viewpoints and opinions as a necessary condition for growth this symposium was convened to bring together a number of persons some of them experts and some beginners for two

days of concentrated interaction on systems theory the breadth of the interests of the invited speakers can be noted from their home disciplines but space limitations forestall any attempt to document their actual current interests which range from brain function to political institutions to technoethics the speakers were chosen for their expository and interactive ability as well as for their work in systems theory and ample time has been allowed for discussion with them

this monograph is planned to provide the application of the soliton theory to solve certain practical problems selected from the fields of solid mechanics fluid mechanics and biomechanics the work is based mainly on the authors research carried out at their home institutes and on some specified significant results existing in the published literature the methodology to study a given evolution equation is to seek the waves of permanent form to test whether it possesses any symmetry properties and whether it is stable and solitonic in nature students of physics applied mathematics and engineering are usually exposed to various branches of nonlinear mechanics especially to the soliton theory the soliton is regarded as an entity a quasi particle which conserves its character and interacts with the surroundings and other solitons as a particle it is related to a strange phenomenon which consists in the propagation of certain waves without attenuation in dissipative media this phenomenon has been known for about 200 years it was described for example by the joule verne s novel les histoires de jean marie cabidoulin d hetzel but its detailed quantitative description became possible only in the last 30 years due to the exceptional development of computers the discovery of the physical soliton is attributed to john scott russell in 1834 russell was observing a boat being drawn along a narrow channel by a pair of horses

a comprehensive theory based approach to the treatment of text meaning in natural language processing applications

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