

Free pdf Business objects x1 r3 tools guide (Read Only)

this book constitutes the refereed proceedings of the first international workshop on articulated motion and deformable objects amdo 2000 held in palma de mallorca spain in september 2000 the 15 revised full papers presented were carefully reviewed and selected for inclusion in the book as the first book devoted to articulated motion and deformable objects this collection covers the following issues geometry and physics of deformable objects motion analysis articulated motion and animation visualization of deformable models 3d recovery from motion single or multiple view human motion analysis and synthesis and applications many valued logics are becoming increasingly important in all areas of computer science this is the second volume of an authoritative two volume handbook on many valued logics by two leading figures in the field while the first volume was mainly concerned with theoretical foundations this volume emphasizes automated reasoning practical applications and the latest developments in fuzzy logic and rough set theory among the applications presented are those in software specification and electronic circuit verification this unique book discusses machine understanding mu this new branch of classic machine perception research focuses on perception that leads to understanding and is based on the categories of sensory objects in this approach the visual and non visual knowledge in the form of visual and non visual concepts is used in the complex reasoning process that leads to understanding the book presents selected new concepts such as perceptual transformations within the machine understanding framework and uses perceptual transformations to solve perceptual problems visual intelligence tests during understanding where understanding is regarded as an ability to solve complex visual problems described in the authors previous books thanks to the uniqueness of the research topics covered the book appeals to researchers from a wide range of disciplines especially computer science cognitive science and philosophy automatic object recognition is a multidisciplinary research area using concepts and tools from mathematics computing optics psychology pattern recognition artificial intelligence and various other disciplines the purpose of this research is to provide a set of coherent paradigms and algorithms for the purpose of designing systems that will ultimately emulate the functions performed by the human visual system hvs hence such systems should have the ability to recognise objects in two or three dimensions independently of their positions orientations or scales in the image the hvs is employed for tens of thousands of recognition events each day ranging from navigation through the recognition of landmarks or signs right through to communication through the recognition of characters or people themselves hence the motivations behind the construction of recognition systems which have the ability to function in the real world is unquestionable and would serve industrial e g quality control military e g automatic target recognition and community needs e g aiding the visually impaired scope content and organisation of this book this book provides a comprehensive yet readable foundation to the field of object recognition from which research may be initiated or guided it represents the culmination of research topics that i have either covered personally or in conjunction with my phd students these areas include image acquisition 3d object reconstruction object modelling and the matching of objects all of which are essential in the construction of an object recognition system the two volume set ccis 681 and ccis 682 constitutes the proceedings of the 11th international conference on bio inspired computing theories and applications bic ta 2016 held in xi an china in october 2016 the 115 revised full papers presented were carefully reviewed and selected from 343 submissions the papers of part i are organized in that order

topical sections on dna computing membrane computing neural computing machine learning the papers of part ii are organized in topical sections on evolutionary computing multi objective optimization pattern recognition others this book offers a new perspective and deeper understanding of complex socioeconomic systems and explores the laws and mechanisms of erring by revealing the system structure i e the context in which errors are imbedded it proposes a number of new concepts for the field of systems science concerning the forces affecting e g system structure subsystem structures and system elements given its scope it offers an excellent reference book for researchers and other readers in the fields of systems science management science mathematics fuzzy logic and sets symbolic logic philosophy etc the book can also benefit researchers and practitioners in artificial intelligence and machine learning as various erring patterns can be identified by training intelligent machines with big data i e error cases and their logic helping to prevent or eliminate errors in a cost effective manner after 20 years of pursuing rough set theory and its applications a look on its present state and further prospects is badly needed the monograph rough set theory and granular computing edited by masahiro inuiguchi shoji hirano and shusaku tsumoto meets this demand it presents the newest developments in this area and gives fair picture of the state of the art in this domain firstly in the keynote papers by zdzislav pawlak andrzej skowron and sankar k pal the relationship of rough sets with other important methods of data analysis bayes theorem neuro computing and pattern recognitio is thoroughly examined next several interesting generalizations of the the ory and new directions of research are presented furthermore application of rough sets in data mining in particular rule induction methods based on rough set theory is presented and discussed further important issue dis cussed in the monograph is rough set based data analysis including study of decisions making in conflict situations last but not least some recent engi neering applications of rough set theory are given they include a proposal of rough set processor architecture organization for fast implementation of ba sic rough set operations and discussion of results concerning advanced image processing for unmanned aerial vehicle thus the monograph beside presenting wide spectrum of ongoing research in this area also points out new emerging areas of study and applications which makes it a valuable source of information to all interested in this do main this book provides a tool for generic readers and graduates who are interested or majoring in systems engineering decision science management science and project management to sharpen their system thinking skills equipping them with a multiangle perspective and offering them broader view to understand the complex socioeconomic system in which we are embedded it systematically investigates the root causes and mechanisms that generate errors through the use of fuzzy set theory systems science logic and set theory and decision science an area that has rarely been explored in literature the topics covered include classic error set fuzzy error set multivariate error set error function identification of errors error systems error logic error matrix and practical application of error theory in a sewage project managing uncertainty and inconsistency has been extensively explored in ti cial intelligence over a number of years now with the advent of massive amounts of data and knowledge from distributed heterogeneous and potentially con icting sources there is interest in developing and applying formalisms for uncertainty andinconsistency widelyin systems that need to better managethis data and knowledge the annual international conference on scalable uncertainty management sum has grown out of this wide ranging interest in managing uncertainty and inconsistency in databases the the semantic and ai it aims at bringing together all those interested in the management of large volumes of uncertainty and inconsistency irrespective of whether they are in databases the the semantic or in ai as well as in other areas such as information retrieval risk analysis and computer vision where signi cant computational ac forms are needed

after a promising first international conference on scalable uncertainty management was held in washington dc usa in 2007 the conference series has been successfully held in napoli italy in 2008 and again in washington dc usa in 2009 ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~ these two volumes constitute the revised selected papers of first international conference icaiot 2023 held in chandigarh india during march 30 31 2023 the 47 full papers and the 10 short papers included in this volume were carefully reviewed and selected from 401 submissions the two books focus on research issues opportunities and challenges of ai and iot applications they present the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of ai algorithms implementation in iot systems this book constitutes the refereed proceedings of the ifip wg 8 4 8 9 international cross domain conference and workshop on availability reliability and security multidisciplinary research and practice for business enterprise and health information systems arges 2011 held in vienna austria in august 2011 the 29 revised papers presented were carefully reviewed and selected for inclusion in the volume the papers concentrate on the many aspects of availability reliability and security for information systems as a discipline bridging the application fields and the well defined computer science field they are organized in three sections multidisciplinary research and practice for business enterprise and health information systems massive information sharing and integration and electronic healthcare and papers from the colocated international workshop on security and cognitive informatics for homeland defense a graduate level textbook that presents basic topology from the perspective of category theory this graduate level textbook on topology takes a unique approach it reintroduces basic point set topology from a more modern categorical perspective many graduate students are familiar with the ideas of point set topology and they are ready to learn something new about them teaching the subject using category theory a contemporary branch of mathematics that provides a way to represent abstract concepts both deepens students understanding of elementary topology and lays a solid foundation for future work in advanced topics after presenting the basics of both category theory and topology the book covers the universal properties of familiar constructions and three main topological properties connectedness hausdorff and compactness it presents a fine grained approach to convergence of sequences and filters explores categorical limits and colimits with examples looks in detail at adjunctions in topology particularly in mapping spaces and examines additional adjunctions presenting ideas from homotopy theory the fundamental groupoid and the seifert van kampen theorem end of chapter exercises allow students to apply what they have learned the book expertly guides students of topology through the important transition from undergraduate student with a solid background in analysis or point set topology to graduate student preparing to work on contemporary problems in mathematics the book deals with two central themes data modeling and management for 3d objects during different time states and the opening of geoinformation systems to a new generation of component based gis the way from first geo database kernel systems to a component based geotoolkit is presented furthermore the implementation of a component based gis with geological and geophysical applications is described with the common data access to a geo database the geological and the geophysical application are brought closer together and profit from each others interpretations of the data an essential reference for optical sensor system design this is the first text to present an integrated view of the optical and mathematical analysis tools necessary to understand computational optical system design it presents the foundations of computational optical sensor design with a focus entirely on digital imaging and spectroscopy it systematically covers coded aperture and tomographic imaging sampling and transformations in optical systems including wavelets and generalized sampling techniques essential to digital system analysis geometric wave and statistical models of optical

fields the basic function of modern optical detectors and focal plane arrays practical strategies for coherence measurement in imaging system design the sampling theory of digital imaging and spectroscopy for both conventional and emerging compressive and generalized measurement strategies measurement code design linear and nonlinear signal estimation the book concludes with a review of numerous design strategies in spectroscopy and imaging and clearly outlines the benefits and limits of each approach including coded aperture and imaging spectroscopy resonant and filter based systems and integrated design strategies to improve image resolution depth of field and field of view optical imaging and spectroscopy is an indispensable textbook for advanced undergraduate and graduate courses in optical sensor design in addition to its direct applicability to optical system design unique perspectives on computational sensor design presented in the text will be of interest for sensor designers in radio and millimeter wave x ray and acoustic systems this monograph deals with various visibility based path and motion planning problems motivated by real world applications such as exploration and mapping planetary surfaces environmental surveillance using stationary or mobile robots and imaging of global air pollutant circulation the formulation and solution of these problems call for concepts and methods from many areas of applied mathematics including computational geometry set covering non smooth optimization combinatorial optimization and optimal control emphasis is placed on the formulation of new problems and methods of approach to these problems since geometry and visualization play important roles in the understanding of these problems intuitive interpretations of the basic concepts are presented before detailed mathematical development the development of a particular topic begins with simple cases illustrated by specific examples and then progresses forward to more complex cases the intended readers of this monograph are primarily students and researchers in engineering computer science and applied mathematics an understanding of the mathematical development of the main results requires only basic knowledge of mathematical analysis control and optimization theories some exercises with various degrees of difficulty are provided at the end of the main chapters the material presented here may serve as a portion of an introductory course or seminar on visibility based optimal path and motion planning problems with the objective of stimulating interest and further studies in this relatively new area this book constitutes the thoroughly refereed post conference proceedings of the 11th international conference on membrane computing cmc11 held in jena germany in august 2010 continuing the fruitful tradition of 10 previous editions of the international workshop on membrane computing wmc the 23 revised full papers presented together with 4 invited papers and the abstracts of 2 keynote lectures were carefully reviewed and selected from numerous submissions the papers address in this volume cover all the main directions of research in membrane computing ranging from theoretical topics in the mathematics and computer science to application issues a special attention was paid to the interaction of membrane computing with biology and computer science focusing both on the biological roots of membrane computing on applications of membrane computing in biology and medicine and on possible electronically based and bioinspired implementations this book introduces the geometry of 3 d vision that is the reconstruction of 3 d models of objects from a collection of 2 d images it details the classic theory of two view geometry and shows that a more proper tool for studying the geometry of multiple views is the so called rank consideration of the multiple view matrix it also develops practical reconstruction algorithms and discusses possible extensions of the theory annotation this book is part i of a two volume work that contains the refereed proceedings of the international conference on computer vision and graphics iccv 2010 held in warsaw poland in september 2010 the 95 revised full papers presented were carefully reviewed and selected from numerous submissions the papers are organized in three topical sections advances in pattern recognition machine vision and

image understanding human motion analysis and synthesis and computer vision and graphics object oriented data analysis is a framework that facilitates inter disciplinary research through new terminology for discussing the often many possible approaches to the analysis of complex data such data are naturally arising in a wide variety of areas this book aims to provide ways of thinking that enable the making of sensible choices the main points are illustrated with many real data examples based on the authors personal experiences which have motivated the invention of a wide array of analytic methods while the mathematics go far beyond the usual in statistics including differential geometry and even topology the book is aimed at accessibility by graduate students there is deliberate focus on ideas over mathematical formulas j s marron is the amos hawley distinguished professor of statistics professor of biostatistics adjunct professor of computer science faculty member of the bioinformatics and computational biology curriculum and research member of the lineberger cancer center and the computational medicine program at the university of north carolina chapel hill ian l dryden is a professor in the department of mathematics and statistics at florida international university in miami has served as head of school of mathematical sciences at the university of nottingham and is joint author of the acclaimed book statistical shape analysis the four volume set comprising lncs volumes 3021 3022 3023 3024 constitutes the refereed proceedings of the 8th european conference on computer vision eccv 2004 held in prague czech republic in may 2004 the 190 revised papers presented were carefully reviewed and selected from a total of 555 papers submitted the four books span the entire range of current issues in computer vision the papers are organized in topical sections on tracking feature based object detection and recognition geometry texture learning and recognition information based image processing scale space flow and restoration 2d shape detection and recognition and 3d shape representation and reconstruction the internet of things iot has emerged as a trending technology that is continually being implemented into various practices within the field of engineering and science due to its versatility and various benefits despite the levels of innovation that iot provides researchers continue to search for networks that maintain levels of sustainability and require fewer resources a network that measures up to these expectations is narrowband iot nbiot which is a low power wide area version of iot networks and is suitable for larger projects engineers and other industry professionals are in need of in depth knowledge on this growing technology and its various applications principles and applications of narrowband internet of things nbiot is an essential reference source that provides an in depth understanding on the recent advancements of nbiot as well as the crucial roles of emerging low power iot networks in various regions of the world featuring research on topics such as security monitoring sustainability and cloud infrastructure this book is ideally designed for developers engineers practitioners researchers students managers and policymakers seeking coverage on the large scale deployment and modern applications of nbiot the return of the congress to north america after 20 years of absence could not have been in a more ideal location the beauty of banff and the many offerings of the rocky mountains was the perfect background for a week of interesting and innovative discussions on the past present and future of geostatistics the congress was well attended with approximately 200 delegates from 19 countries across six continents there was a broad spectrum of students and seasoned geostatisticians who shared their knowledge in many areas of study including mining petroleum and environmental applications you will find 119 papers in this two volume set all papers were presented at the congress and have been peer reviewed they are grouped by the different sessions that were held in banff and are in the order of presentation these papers provide a permanent record of different theoretical perspectives from the last four years not all of these ideas will stand the test of time and practice however their originality will endure in the practical

applications in these proceedings provide nuggets of wisdom to those struggling to apply geostatistics in the best possible way students and practitioners will be digging through these papers for many years to come oy leuangthong clayton v deutsch acknowledgments we would like to thank the industry sponsors who contributed generously to the overall success and quality of the congress de beers canada earth decision sciences maptek chile ltda mira geoscience nexen inc petro canada placer dome inc this book constitutes the refereed post conference proceedings of the second ifip international cross domain conference on internet of things ifipiot 2019 held in tampa usa in october november 2019 the 11 full papers presented were carefully reviewed and selected from 22 submissions also included in this volume are 8 invited papers the papers are organized in the following topical sections iot applications context reasoning and situational awareness iot security smart and low power iot smart network architectures and smart system design and iot education this book constitutes the refereed proceedings of the 5th international conference on deductive and object oriented databases dood 97 held in montreux switzerland in december 1997 the 22 revised full papers presented in this book were selected from a total of 59 submissions also included are abstracts or full versions of three invited talks and three tutorials and six short presentations the papers are organized in topical sections on materialized view maintenance extending dbms features database updates managing change in object databases semantics of active databases formal semantics and new directions this book constitutes the refereed proceedings of the 29th symposium of the german association for pattern recognition dagm 2007 it covers image filtering restoration and segmentation shape analysis and representation categorization and detection computer vision and image retrieval machine learning and statistical data analysis biomedical data analysis motion analysis and tracking stereo and structure from motion as well as 3d view registration and surface modeling this book collects selected papers by authors for codata 2006 which are relevant to the acquisition of knowledge and the assessment of risk and opportunity that comes from combining data from a number of different disciplines this book constitutes the refereed proceedings of the 7th pacific asia conference on knowledge discovery and data mining pakdd 2003 held in seoul korea in april mai 2003 the 38 revised full papers and 20 revised short papers presented together with two invited industrial contributions were carefully reviewed and selected from 215 submissions the papers are presented in topical sections on stream mining graph mining clustering text mining bayesian networks association rules semi structured data mining classification data analysis and feature selection this book presents the joint post proceedings of five international workshops organized by the japanese society for artificial intelligence during the 19th annual conference jsai 2005 the volume includes 5 award winning papers of the main conference along with 40 revised full workshop papers covering such topics as logic and engineering of natural language semantics learning with logics agent network dynamics and intelligence conversational informatics and risk management systems with intelligent data analysis this book constitutes the refereed proceedings of the 12th international conference on compiler construction cc 2003 held in warsaw poland in april 2003 the 20 revised full regular papers and one tool demonstration paper presented together with two invited papers were carefully reviewed and selected from 83 submissions the papers are organized in topical sections on register allocation language constructs and their implementation type analysis java pot pourri and optimization this book constitutes the refereed proceedings of the third international conference on rough sets and knowledge technology rskt 2008 held in chengdu china in may 2008 the 91 revised full papers papers presented together with 3 keynote papers and 6 tutorial papers were carefully reviewed and selected from 184 submissions they all focus on five major research fields computing theory and paradigms knowledge technology intelligent information processing intelligent control

and applications the papers are organized in topical sections on rough and soft computing rough mereology with applications dominance based rough set approach fuzzy rough hybridization granular computing logical and mathematical foundations formal concept analysis data mining machine learning intelligent information processing bioinformatics and cognitive informatics web intelligence pattern recognition and real life applications of knowledge technology this book constitutes the thoroughly refereed joint post proceedings of the first two international workshops on dynamical vision wdv 2005 and wdv 2006 held in beijing china in october 2005 within the scope of iccv 2005 and in graz austria in may 2006 in the course of eccv 2006 the 24 revised full papers address a wide range of theoretical and application issues in dynamical vision this book constitutes the refereed proceedings of the 15th international conference on principles of distributed systems opodis 2011 held in toulouse france in december 2011 the 26 revised papers presented in this volume were carefully reviewed and selected from 96 submissions they represent the current state of the art of the research in the field of the design analysis and development of distributed and real time systems this book constitutes the refereed proceedings of the 28th annual german conference on artificial intelligence ki 2005 held in koblenz germany in september 2005 co located with the 3rd german conference on multiagent system technologies mates 2005 the 29 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from 113 submissions the papers are organized in topical sections on knowledge representation and reasoning machine learning diagnosis neural networks planning robotics and cognitive modeling philosophy natural language this volume constitutes the refereed proceedings of the 5th iberian conference on pattern recognition and image analysis ibpria 2011 held in las palmas de gran canaria spain in june 2011 the 34 revised full papers and 58 revised poster papers presented were carefully reviewed and selected from 158 submissions the papers are organized in topical sections on computer vision image processing and analysis medical applications and pattern recognition this book constitutes the refereed proceedings of the 7th european conference on principles and practice of knowledge discovery in databases pkdd 2003 held in cavtat dubrovnik croatia in september 2003 in conjunction with ecml 2003 the 40 revised full papers presented together with 4 invited contributions were carefully reviewed and together with another 40 ones for ecml 2003 selected from a total of 332 submissions the papers address all current issues in data mining and knowledge discovery in databases including data mining tools association rule mining classification clustering pattern mining multi relational classifiers boosting kernel methods learning bayesian networks inductive logic programming user preferences mining time series analysis multi view learning support vector machine pattern mining relational learning categorization information extraction decision making prediction and decision trees this proceedings volume brings together some 189 peer reviewed papers presented at the international conference on information technology and computer application engineering held 27 28 august 2013 in hong kong china specific topics under consideration include control robotics and automation information technology intelligent computing and telecommunication computer science and engineering computer education and application and other related topics this book provides readers a state of the art survey of recent innovations and research worldwide in information technology and computer application engineering in so doing furthering the development and growth of these research fields strengthening international academic cooperation and communication and promoting the fruitful exchange of research ideas this volume will be of interest to professionals and academics alike serving as a broad overview of the latest advances in the dynamic field of information technology and computer application engineering

Articulated Motion and Deformable Objects**2006-12-31**

this book constitutes the refereed proceedings of the first international workshop on articulated motion and deformable objects amdo 2000 held in palma de mallorca spain in september 2000 the 15 revised full papers presented were carefully reviewed and selected for inclusion in the book as the first book devoted to articulated motion and deformable objects this collection covers the following issues geometry and physics of deformable objects motion analysis articulated motion and animation visualization of deformable models 3d recovery from motion single or multiple view human motion analysis and synthesis and applications

Many-Valued Logics 2 2003-10-23

many valued logics are becoming increasingly important in all areas of computer science this is the second volume of an authoritative two volume handbook on many valued logics by two leading figures in the field while the first volume was mainly concerned with theoretical foundations this volume emphasizes automated reasoning practical applications and the latest developments in fuzzy logic and rough set theory among the applications presented are those in software specification and electronic circuit verification

Machine Understanding 2019-08-01

this unique book discusses machine understanding mu this new branch of classic machine perception research focuses on perception that leads to understanding and is based on the categories of sensory objects in this approach the visual and non visual knowledge in the form of visual and non visual concepts is used in the complex reasoning process that leads to understanding the book presents selected new concepts such as perceptual transformations within the machine understanding framework and uses perceptual transformations to solve perceptual problems visual intelligence tests during understanding where understanding is regarded as an ability to solve complex visual problems described in the authors previous books thanks to the uniqueness of the research topics covered the book appeals to researchers from a wide range of disciplines especially computer science cognitive science and philosophy

Object Recognition 2001-12-12

automatic object recognition is a multidisciplinary research area using concepts and tools from mathematics computing optics psychology pattern recognition artificial intelligence and various other disciplines the purpose of this research is to provide a set of coherent paradigms and algorithms for the purpose of designing systems that will ultimately emulate the functions performed by the human visual system hvs hence such systems should have the ability to recognise objects in two or three dimensions independently of their positions orientations or scales in the image the hvs is employed for tens of thousands of recognition events each day ranging from navigation through the recognition of landmarks or signs right through to communication through the recognition of characters or people themselves hence the motivations behind the construction of recognition systems which have the ability to function in the real world is unquestionable and would serve industrial e g quality control military e g automatic target recognition and community needs e g aiding the visually impaired scope content and

2023-08-13**8/19**

organisation of this book this book provides a comprehensive yet readable foundation to the field of object recognition from which research may be initiated or guided it represents the culmination of research topics that I have either covered personally or in conjunction with my phd students these areas include image acquisition 3 d object reconstruction object modelling and the matching of objects all of which are essential in the construction of an object recognition system

Bio-inspired Computing – Theories and Applications **2017-01-07**

the two volume set ccis 681 and ccis 682 constitutes the proceedings of the 11th international conference on bio inspired computing theories and applications bic ta 2016 held in xi an china in october 2016 the 115 revised full papers presented were carefully reviewed and selected from 343 submissions the papers of part i are organized in topical sections on dna computing membrane computing neural computing machine learning the papers of part ii are organized in topical sections on evolutionary computing multi objective optimization pattern recognition others

Error Systems: Concepts, Theory and Applications **2020-02-29**

this book offers a new perspective and deeper understanding of complex socioeconomic systems and explores the laws and mechanisms of erring by revealing the system structure i e the context in which errors are imbedded it proposes a number of new concepts for the field of systems science concerning the forces affecting e g system structure subsystem structures and system elements given its scope it offers an excellent reference book for researchers and other readers in the fields of systems science management science mathematics fuzzy logic and sets symbolic logic philosophy etc the book can also benefit researchers and practitioners in artificial intelligence and machine learning as various erring patterns can be identified by training intelligent machines with big data i e error cases and their logic helping to prevent or eliminate errors in a cost effective manner

Rough Set Theory and Granular Computing 2012-12-06

after 20 years of pursuing rough set theory and its applications a look on its present state and further prospects is badly needed the monograph rough set theory and granular computing edited by masahiro inuiguchi shoji hirano and shusaku tsumoto meets this demand it presents the newest developments in this area and gives fair picture of the state of the art in this domain firstly in the keynote papers by zdzislaw pawlak andrzej skowron and sankar k pal the relationship of rough sets with other important methods of data analysis bayes theorem neuro computing and pattern recognition is thoroughly examined next several interesting generalizations of the theory and new directions of research are presented furthermore application of rough sets in data mining in particular rule induction methods based on rough set theory is presented and discussed further important issue discussed in the monograph is rough set based data analysis including study of decisions making in conflict situations last but not least some recent engineering applications of rough set theory are given they include a proposal of rough set processor architecture organization for fast implementation of basic rough set operations and discussion of results concerning advanced image processing for unmanned aerial vehicle thus the monograph beside presenting wide spectrum of ongoing research in this area also points out new emerging areas of study and

applications which makes it a valuable source of information to all interested in this do main

Fundamentals of Error Theory 2018-12-11

this book provides a tool for generic readers and graduates who are interested or majoring in systems engineering decision science management science and project management to sharpen their system thinking skills equipping them with a multiangle perspective and offering them broader view to understand the complex socioeconomic system in which we are embedded it systematically investigates the root causes and mechanisms that generate errors through the use of fuzzy set theory systems science logic and set theory and decision science an area that has rarely been explored in literature the topics covered include classic error set fuzzy error set multivariate error set error function identification of errors error systems error logic error matrix and practical application of error theory in a sewage project

Scalable Uncertainty Management 2010-09-17

managing uncertainty and inconsistency has been extensively explored in ti cial intelligence over a number of years now with the advent of massive amounts of data and knowledge from distributed heterogeneous and potentially con icting sources there is interest in developing and applying formalisms for uncertainty andinconsistency widelyin systems that need to better managethis data and knowledge the annual international conference on scalable uncertainty management sum has grown out of this wide ranging interest in managing uncertainty and inconsistency in databases the the semantic and ai it aims at bringing together all those interested in the management of large volumes of uncertainty and inconsistency irrespective of whether they are in databases the the semantic or in ai as well as in other areas such as information retrieval risk analysis and computer vision where signi cant computational forts are needed after a promising first international conference on scalable uncertainty management was held in washington dc usa in 2007 the c ference series has been successfully held in napoli italy in 2008 and again in washington dc usa in 2009

Nyūmon UML 2003-12

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Artificial Intelligence of Things 2023-12-02

these two volumes constitute the revised selected papers of first international conference icaiot 2023 held in chandigarh india during march 30 31 2023 the 47 full papers and the 10 short papers included in this volume were carefully reviewed and selected from 401 submissions the two books focus on research issues opportunities and challenges of ai and iot applications they present the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of ai algorithms implementation in iot systems

Availability, Reliability and Security for Business, Enterprise and Health Information Systems

2011-08-09

this book constitutes the refereed proceedings of the ifip wg 8 4 8 9 international cross domain conference and workshop on availability reliability and security multidisciplinary research and practice for business enterprise and health information systems arges 2011 held in vienna austria in august 2011 the 29 revised papers presented were carefully reviewed and selected for inclusion in the volume the papers concentrate on the many aspects of availability reliability and security for information systems as a discipline bridging the application fields and the well defined computer science field they are organized in three sections multidisciplinary research and practice for business enterprise and health information systems massive information sharing and integration and electronic healthcare and papers from the colocated international workshop on security and cognitive informatics for homeland defense

Topology 2020-08-18

a graduate level textbook that presents basic topology from the perspective of category theory this graduate level textbook on topology takes a unique approach it reintroduces basic point set topology from a more modern categorical perspective many graduate students are familiar with the ideas of point set topology and they are ready to learn something new about them teaching the subject using category theory a contemporary branch of mathematics that provides a way to represent abstract concepts both deepens students understanding of elementary topology and lays a solid foundation for future work in advanced topics after presenting the basics of both category theory and topology the book covers the universal properties of familiar constructions and three main topological properties connectedness hausdorff and compactness it presents a fine grained approach to convergence of sequences and filters explores categorical limits and colimits with examples looks in detail at adjunctions in topology particularly in mapping spaces and examines additional adjunctions presenting ideas from homotopy theory the fundamental groupoid and the seifert van kampen theorem end of chapter exercises allow students to apply what they have learned the book expertly guides students of topology through the important transition from undergraduate student with a solid background in analysis or point set topology to graduate student preparing to work on contemporary problems in mathematics

Pattern Recognition and Image Analysis 2001

the book deals with two central themes data modeling and management for 3d objects during different time states and the opening of geoinformation systems to a new generation of component based gis the way from first geo database kernel systems to a component based geotoolkit is presented furthermore the implementation of a component based gis with geological and geophysical applications is described with the common data access to a geo database the geological and the geophysical application are brought closer together and profit from each others interpretations of the data

On the Way to Component-based 3D/4D Geoinformation Systems 2001

an essential reference for optical sensor system design this is the first text to present an integrated view of the optical and mathematical analysis tools necessary to understand computational optical system design it presents

the foundations of computational optical sensor design with a focus entirely on digital imaging and spectroscopy it systematically covers coded aperture and tomographic imaging sampling and transformations in optical systems including wavelets and generalized sampling techniques essential to digital system analysis geometric wave and statistical models of optical fields the basic function of modern optical detectors and focal plane arrays practical strategies for coherence measurement in imaging system design the sampling theory of digital imaging and spectroscopy for both conventional and emerging compressive and generalized measurement strategies measurement code design linear and nonlinear signal estimation the book concludes with a review of numerous design strategies in spectroscopy and imaging and clearly outlines the benefits and limits of each approach including coded aperture and imaging spectroscopy resonant and filter based systems and integrated design strategies to improve image resolution depth of field and field of view optical imaging and spectroscopy is an indispensable textbook for advanced undergraduate and graduate courses in optical sensor design in addition to its direct applicability to optical system design unique perspectives on computational sensor design presented in the text will be of interest for sensor designers in radio and millimeter wave x ray and acoustic systems

Optical Imaging and Spectroscopy 2009-04-27

this monograph deals with various visibility based path and motion planning problems motivated by real world applications such as exploration and mapping planetary surfaces environmental surveillance using stationary or mobile robots and imaging of global air pollutant circulation the formulation and solution of these problems call for concepts and methods from many areas of applied mathematics including computational geometry set covering non smooth optimization combinatorial optimization and optimal control emphasis is placed on the formulation of new problems and methods of approach to these problems since geometry and visualization play important roles in the understanding of these problems intuitive interpretations of the basic concepts are presented before detailed mathematical development the development of a particular topic begins with simple cases illustrated by specific examples and then progresses forward to more complex cases the intended readers of this monograph are primarily students and researchers in engineering computer science and applied mathematics an understanding of the mathematical development of the main results requires only basic knowledge of mathematical analysis control and optimization theories some exercises with various degrees of difficulty are provided at the end of the main chapters the material presented here may serve as a portion of an introductory course or seminar on visibility based optimal path and motion planning problems with the objective of stimulating interest and further studies in this relatively new area

Visibility-based Optimal Path and Motion Planning 2014-08-13

this book constitutes the thoroughly refereed post conference proceedings of the 11th international conference on membrane computing cmc11 held in jena germany in august 2010 continuing the fruitful tradition of 10 previous editions of the international workshop on membrane computing wmc the 23 revised full papers presented together with 4 invited papers and the abstracts of 2 keynote lectures were carefully reviewed and selected from numerous submissions the papers address in this volume cover all the main directions of research in membrane computing ranging from theoretical topics in the mathematics and computer science to application issues a special attention was paid to the interaction of membrane computing with biology and

computer science focusing both on the biological roots of membrane computing on applications of membrane computing in biology and medicine and on possible electronically based and bioinspired implementations

Membrane Computing 2011-01-14

this book introduces the geometry of 3 d vision that is the reconstruction of 3 d models of objects from a collection of 2 d images it details the classic theory of two view geometry and shows that a more proper tool for studying the geometry of multiple views is the so called rank consideration of the multiple view matrix it also develops practical reconstruction algorithms and discusses possible extensions of the theory

An Invitation to 3-D Vision 2012-11-06

annotation this book is part i of a two volume work that contains the refereed proceedings of the international conference on computer vision and graphics iccv 2010 held in warsaw poland in september 2010 the 95 revised full papers presented were carefully reviewed and selected from numerous submissions the papers are organized in three topical sections advances in pattern recognition machine vision and image understanding human motion analysis and synthesis and computer vision and graphics

Computer Vision and Graphics 2010-09-14

object oriented data analysis is a framework that facilitates interdisciplinary research through new terminology for discussing the often many possible approaches to the analysis of complex data such data are naturally arising in a wide variety of areas this book aims to provide ways of thinking that enable the making of sensible choices the main points are illustrated with many real data examples based on the authors personal experiences which have motivated the invention of a wide array of analytic methods while the mathematics go far beyond the usual in statistics including differential geometry and even topology the book is aimed at accessibility by graduate students there is deliberate focus on ideas over mathematical formulas j s marron is the amos hawley distinguished professor of statistics professor of biostatistics adjunct professor of computer science faculty member of the bioinformatics and computational biology curriculum and research member of the lineberger cancer center and the computational medicine program at the university of north carolina chapel hill ian l dryden is a professor in the department of mathematics and statistics at florida international university in miami has served as head of school of mathematical sciences at the university of nottingham and is joint author of the acclaimed book statistical shape analysis

Object Oriented Data Analysis 2021-11-18

the four volume set comprising lncs volumes 3021 3022 3023 3024 constitutes the refereed proceedings of the 8th european conference on computer vision eccv 2004 held in prague czech republic in may 2004 the 190 revised papers presented were carefully reviewed and selected from a total of 555 papers submitted the four books span the entire range of current issues in computer vision the papers are organized in topical sections on tracking feature based object detection and recognition geometry texture learning and recognition information based image processing scale space flow and restoration 2d shape detection and recognition and 3d shape representation and reconstruction

Computer Vision - ECCV 2004 2004-04-28

the internet of things iot has emerged as a trending technology that is continually being implemented into various practices within the field of engineering and science due to its versatility and various benefits despite the levels of innovation that iot provides researchers continue to search for networks that maintain levels of sustainability and require fewer resources a network that measures up to these expectations is narrowband iot nbiot which is a low power wide area version of iot networks and is suitable for larger projects engineers and other industry professionals are in need of in depth knowledge on this growing technology and its various applications principles and applications of narrowband internet of things nbiot is an essential reference source that provides an in depth understanding on the recent advancements of nbiot as well as the crucial roles of emerging low power iot networks in various regions of the world featuring research on topics such as security monitoring sustainability and cloud infrastructure this book is ideally designed for developers engineers practitioners researchers students managers and policymakers seeking coverage on the large scale deployment and modern applications of nbiot

Principles and Applications of Narrowband Internet of Things (NBIoT) 2021-01-08

the return of the congress to north america after 20 years of absence could not have been in a more ideal location the beauty of banff and the many offerings of the rocky mountains was the perfect background for a week of interesting and innovative discussions on the past present and future of geostatistics the congress was well attended with approximately 200 delegates from 19 countries across six continents there was a broad spectrum of students and seasoned geostatisticians who shared their knowledge in many areas of study including mining petroleum and environmental applications you will find 119 papers in this two volume set all papers were presented at the congress and have been peer reviewed they are grouped by the different sessions that were held in banff and are in the order of presentation these papers provide a permanent record of different theoretical perspectives from the last four years not all of these ideas will stand the test of time and practice however their originality will endure the practical applications in these proceedings provide nuggets of wisdom to those struggling to apply geostatistics in the best possible way students and practitioners will be digging through these papers for many years to come oy leuangthong clayton v deutsch acknowledgments we would like to thank the industry sponsors who contributed generously to the overall success and quality of the congress de beers canada earth decision sciences maptek chile ltda mira geoscience nexen inc petro canada placer dome inc

Geostatistics Banff 2004 2008-01-24

this book constitutes the refereed post conference proceedings of the second ifip international cross domain conference on internet of things ifipiot 2019 held in tampa usa in october november 2019 the 11 full papers presented were carefully reviewed and selected from 22 submissions also included in this volume are 8 invited papers the papers are organized in the following topical sections iot applications context reasoning and situational awareness iot security smart and low power iot smart network architectures and smart system design and iot education

Internet of Things. A Confluence of Many Disciplines 2020-03-18

this book constitutes the refereed proceedings of the 5th international conference on deductive and object oriented databases dood 97 held in montreux switzerland in december 1997 the 22 revised full papers presented in this book were selected from a total of 59 submissions also included are abstracts or full versions of three invited talks and three tutorials and six short presentations the papers are organized in topical sections on materialized view maintenance extending dbms features database updates managing change in object databases semantics of active databases formal semantics and new directions

Deductive and Object-Oriented Databases 1997-11-12

this book constitutes the refereed proceedings of the 29th symposium of the german association for pattern recognition dagm 2007 it covers image filtering restoration and segmentation shape analysis and representation categorization and detection computer vision and image retrieval machine learning and statistical data analysis biomedical data analysis motion analysis and tracking stereo and structure from motion as well as 3d view registration and surface modeling

Pattern Recognition 2007-09-22

this book collects selected papers by authors for codata 2006 which are relevant to the acquisition of knowledge and the assessment of risk and opportunity that comes from combining data from a number of different disciplines

Communications and Discoveries from Multidisciplinary Data 2008-08-25

this book constitutes the refereed proceedings of the 7th pacific asia conference on knowledge discovery and data mining pakdd 2003 held in seoul korea in april mai 2003 the 38 revised full papers and 20 revised short papers presented together with two invited industrial contributions were carefully reviewed and selected from 215 submissions the papers are presented in topical sections on stream mining graph mining clustering text mining bayesian networks association rules semi structured data mining classification data analysis and feature selection

Journal of Experimental and Theoretical Physics 1995

this book presents the joint post proceedings of five international workshops organized by the japanese society for artificial intelligence during the 19th annual conference jsai 2005 the volume includes 5 award winning papers of the main conference along with 40 revised full workshop papers covering such topics as logic and engineering of natural language semantics learning with logics agent network dynamics and intelligence conversational informatics and risk management systems with intelligent data analysis

Advances in Knowledge Discovery and Data Mining 2003-04-16

this book constitutes the refereed proceedings of the 12th international conference on compiler construction cc 2003 held in warsaw poland in april 2003 the 20 revised full regular papers and one tool demonstration paper presented together with two invited papers were carefully reviewed and selected from 83 submissions the papers are organized in topical sections on register allocation language constructs and their implementation type analysis java pot pourri and optimization

New Frontiers in Artificial Intelligence 2006-06-27

this book constitutes the refereed proceedings of the third international conference on rough sets and knowledge technology rskt 2008 held in chengdu china in may 2008 the 91 revised full papers papers presented together with 3 keynote papers and 6 tutorial papers were carefully reviewed and selected from 184 submissions they all focus on five major research fields computing theory and paradigms knowledge technology intelligent information processing intelligent control and applications the papers are organized in topical sections on rough and soft computing rough mereology with applications dominance based rough set approach fuzzy rough hybridization granular computing logical and mathematical foundations formal concept analysis data mining machine learning intelligent information processing bioinformatics and cognitive informatics web intelligence pattern recognition and real life applications of knowledge technology

Compiler Construction 2003-07-01

this book constitutes the thoroughly refereed joint post proceedings of the first two international workshops on dynamical vision wdv 2005 and wdv 2006 held in beijing china in october 2005 within the scope of iccv 2005 and in graz austria in may 2006 in the course of eccv 2006 the 24 revised full papers address a wide range of theoretical and application issues in dynamical vision

Rough Sets and Knowledge Technology 2008-04-25

this book constitutes the refereed proceedings of the 15th international conference on principles of distributed systems opodis 2011 held in toulouse france in december 2011 the 26 revised papers presented in this volume were carefully reviewed and selected from 96 submissions they represent the current state of the art of the research in the field of the design analysis and development of distributed and real time systems

Dynamical Vision 2007-02

this book constitutes the refereed proceedings of the 28th annual german conference on artificial intelligence ki 2005 held in koblenz germany in september 2005 co located with the 3rd german conference on multiagent system technologies mates 2005 the 29 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from 113 submissions the papers are organized in topical sections on knowledge representation and reasoning machine learning diagnosis neural networks planning robotics and cognitive modeling philosophy natural language

Current Research on Holography and Interferometric Methods for Measurement of Object Properties 2003

this volume constitutes the refereed proceedings of the 5th iberian conference on pattern recognition and image analysis ibpria 2011 held in las palmas de gran canaria spain in june 2011 the 34 revised full papers and 58 revised poster papers presented were carefully reviewed and selected from 158 submissions the papers are organized in topical sections on computer vision image processing and analysis medical applications and pattern recognition

Principles of Distributed Systems 2011-12-02

this book constitutes the refereed proceedings of the 7th european conference on principles and practice of knowledge discovery in databases pkdd 2003 held in cavtat dubrovnik croatia in september 2003 in conjunction with ecml 2003 the 40 revised full papers presented together with 4 invited contributions were carefully reviewed and together with another 40 ones for ecml 2003 selected from a total of 332 submissions the papers address all current issues in data mining and knowledge discovery in databases including data mining tools association rule mining classification clustering pattern mining multi relational classifiers boosting kernel methods learning bayesian networks inductive logic programming user preferences mining time series analysis multi view learning support vector machine pattern mining relational learning categorization information extraction decision making prediction and decision trees

KI 2005: Advances in Artificial Intelligence 2005-08-30

this proceedings volume brings together some 189 peer reviewed papers presented at the international conference on information technology and computer application engineering held 27 28 august 2013 in hong kong china specific topics under consideration include control robotics and automation information technology intelligent computing and telecommunication computer science and engineering computer education and application and other related topics this book provides readers a state of the art survey of recent innovations and research worldwide in information technology and computer application engineering in so doing furthering the development and growth of these research fields strengthening international academic cooperation and communication and promoting the fruitful exchange of research ideas this volume will be of interest to professionals and academics alike serving as a broad overview of the latest advances in the dynamic field of information technology and computer application engineering

Pattern Recognition and Image Analysis 2011-06-01

Knowledge Discovery in Databases: PKDD 2003 2003-09-11

Information Technology and Computer Application

Engineering 2013-10-11

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