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Implementation of Circular Economy in Supply Chains and Production Systems Agents and Multi-Agent Systems: Technologies and Applications 2022 Causation in Decision, Belief Change, and Statistics Machine Design Lectures on Systems, Control, and Information Basic Course in Hydraulic Systems Evolutionary Computation in Combinatorial Optimization Applied State Estimation and Association Basic Analysis II Information Security and Cryptology Python Programming Applications of Mathematics in Economics The University of Western Ontario Series in Philosophy of Science Hardware and Software: Verification and Testing Empirical Methods in Natural Language Generation Exact Design of Digital Microfluidic Biochips Intelligence Optimization for Green Scheduling in Manufacturing Systems Knowledge-Based Intelligent Information and Engineering Systems Fair Division and Collective Welfare Mathematical Logic Roma Marczewska-Kuzma Gordan Jezic W.L. Harper Lei Guo Jack Kauffman Thomas Stützle Chaw-Bing Chang James K. Peterson Dengguo Feng Vijay Kumar Sharma Warren Page Sharon Barner Emiel Krahmer Oliver Keszocze Chao Lu Bogdan Gabrys Herve Moulin Daniel Cunningham

Implementation of Circular Economy in Supply Chains and Production Systems Agents and Multi-Agent Systems: Technologies and Applications 2022 Causation in Decision, Belief Change, and Statistics Machine Design Lectures on Systems, Control, and Information Basic Course in Hydraulic Systems Evolutionary Computation in Combinatorial Optimization Applied State Estimation and Association Basic Analysis I Information Security and Cryptology Python Programming Applications of Mathematics in Economics The University of Western Ontario Series in Philosophy of Science Hardware and Software: Verification and Testing Empirical Methods in Natural Language Generation Exact Design of Digital Microfluidic Biochips Intelligence Optimization for Green Scheduling in Manufacturing Systems Knowledge-Based Intelligent Information and Engineering Systems Fair Division and Collective Welfare Mathematical Logic *Roma Marczewska-Kuzma Gordan Jezic W.L. Harper Lei Guo Jack Kauffman Thomas Stützle Chaw-Bing Chang James K. Peterson Dengguo Feng Vijay Kumar Sharma Warren Page Sharon Barner Emiel Krahmer Oliver Keszocze Chao Lu Bogdan Gabrys Herve Moulin Daniel Cunningham*

this book covers various aspects of sustainability including green economy green energy and waste management it offers analysis of key challenges in contemporary

world as well as concepts and solutions that can be implemented to deal with them the authors represent various universities located all over the europe hence their perspectives are different and confronting their points of view will result in holistic review of current topics connected with circular economy the book can be interesting for academics as it presents the latest research results for business practitioners as it supplements research with case studies and real life examples and for students who can learn about new challenges solutions they will have to deal with in their professional careers

the book highlights new trends and challenges in research on agents and the new digital and knowledge economy it includes papers on business process management agent based modeling and simulation and anthropic oriented computing that were originally presented at the 16th international kes conference on agents and multi agent systems technologies and applications kes amsta 2022 held at rhodes greece in june 20 22 2022 the respective papers cover topics such as software agents multi agent systems agent modeling mobile and cloud computing big data analysis business intelligence artificial intelligence social systems computer embedded systems and nature inspired manufacturing all of which contribute to the modern digital economy

the papers collected here are with three exceptions those presented at a conference on probability and causation held at the university of california at irvine on july 15 19 1985 the exceptions are that david freedman and abner shimony were not able to contribute the papers that they presented to this volume and that clark glymour who was not able to attend the conference did contribute a paper we would like to thank the national science foundation and the school of humanities of the university of california at irvine for generous support william harper university of western ontario brian skyrms university of california at irvine vll introduction part i decisions and games causal notions have recently come to figure prominently in discussions about rational decision making indeed a relatively influential new approach to theorizing about rational choice has come to be called causal decision theory 1 decision problems such as newcombe s problem and some versions of the prisoner s dilemma where an act counts as evidence for a desired state even though the agent knows his choice of that act cannot causally influence whether or not the state obtains have motivated causal decision theorists

this volume presents lectures delivered at a workshop held at the chinese academy of sciences beijing the following articles are included nonlinear systems control by r brockett adaptive control of discrete time nonlinear systems with structural uncertainties by l l xie and l guo networks and learning by p r kumar mathematical aspects of the power control problem in mobile communication systems by c w sung and w s wong and brockett s problem on nonlinear filtering theory by s s t yau basic concepts and current research are both presented in this book the volume offers a comprehensive and easy to follow account of many fundamental

issues in this diverse field it would be a suitable text for a graduate course on wireless communication titles in this series are co published with international press cambridge ma

this book constitutes the referred proceedings of the 24th european conference on evolutionary computation in combinatorial optimization evocop 2024 held as part of evostar 2024 in aberystwyth uk during april 3 5 2024 the 12 full papers presented in this book were carefully reviewed and selected from 28 submissions they cover a variety of topics ranging from constructive algorithms machine learning techniques ranging from neural network based guidance to sparse surrogate models for optimization problems the foundation of evolutionary computation algorithms and other search heuristics to multi objective optimization problems

a rigorous introduction to the theory and applications of state estimation and association an important area in aerospace electronics and defense industries applied state estimation and association is an important area for practicing engineers in aerospace electronics and defense industries used in such tasks as signal processing tracking and navigation this book offers a rigorous introduction to both theory and application of state estimation and association it takes a unified approach to problem formulation and solution development that helps students and junior engineers build a sound theoretical foundation for their work and develop skills and tools for practical applications chapters 1 through 6 focus on solving the problem of estimation with a single sensor observing a single object and cover such topics as parameter estimation state estimation for linear and nonlinear systems and multiple model estimation algorithms chapters 7 through 10 expand the discussion to consider multiple sensors and multiple objects the book can be used in a first year graduate course in control or system engineering or as a reference for professionals each chapter ends with problems that will help readers to develop derivation skills that can be applied to new problems and to build computer models that offer a useful set of tools for problem solving readers must be familiar with state variable representation of systems and basic probability theory including random and stochastic processes

basic analysis i functions of a real variable is designed for students who have completed the usual calculus and ordinary differential equation sequence and a basic course in linear algebra this is a critical course in the use of abstraction but is just first volume in a sequence of courses which prepare students to become practicing scientists this book is written with the aim of balancing the theory and abstraction with clear explanations and arguments so that students who are from a variety of different areas can follow this text and use it profitably for self study it can also be used as a supplementary text for anyone whose work requires that they begin to assimilate more abstract mathematical concepts as part of their professional growth features can be used as a traditional textbook as well as for self

study suitable for undergraduate mathematics students or for those in other disciplines requiring a solid grounding in abstraction emphasises learning how to understand the consequences of assumptions using a variety of tools to provide the proofs of propositions

the 1st sklois conference on information security and cryptography cisc 2005 was organized by the state key laboratory of information security of the chinese academy of sciences it was held in beijing china december 15 17 2005 and was sponsored by the institute of software the chinese academy of sciences the graduate school of the chinese academy of sciences and the national science foundation of china the conference proceedings representing invited and contributed papers are published in this volume of springer's lecture notes in computer science lncs series the area of research covered by cisc has been gaining importance in recent years and a lot of fundamental experimental and applied work has been done advancing the state of the art the program of cisc 2005 covered numerous fields of research within the general scope of the conference the international program committee of the conference received a total of 196 submissions from 21 countries thirty three submissions were selected for presentation as regular papers and are part of this volume in addition to this track the conference also hosted a short paper track of 32 presentations that were carefully selected as well all submissions were reviewed by experts in the relevant areas and based on their ranking and strict selection criteria the papers were selected for the various tracks we note that stricter criteria were applied to papers co-authored by program committee members we further note that obviously no member took part in influencing the ranking of his or her own submissions

maintaining a practical perspective python programming a practical approach acquaints you with the wonderful world of programming the book is a starting point for those who want to learn python programming the backbone of any programming which is the data structure and components such as strings lists etc have been illustrated with many examples and enough practice problems to instill a level of self confidence in the reader drawing on knowledge gained directly from teaching computer science as a subject and working on a wide range of projects related to ml ai deep learning and blockchain the authors have tried their best to present the necessary skills for a python programmer once the foundation of python programming is built and the readers are aware of the exact structure dimensions processing building blocks and representation of data they can readily take up their specific problems from the area of interest and solve them with the help of python these include but are not limited to operators control flow strings functions module processing object oriented programming exception and file handling multithreading synchronization regular expressions and python database programming this book on python programming is specially designed to keep readers busy with learning fundamentals and generates a sense of confidence by attempting the assignment problems we firmly believe that explaining any particular technology deviates from learning the fundamentals of a programming language this book is focused on helping readers attempt implementation in their

areas of interest through the skills imparted through this book we have attempted to present the real essence of python programming which you can confidently apply in real life by using python as a tool salient features based on real world requirements and solution simple presentation without avoiding necessary details of the topic executable programs on almost every topic plenty of exercise questions designed to test readers skills and understanding purposefully designed to be instantly applicable python programming a practical approach provides implementation examples so that the described subject matter can be immediately implemented due to the well known versatility of python in handling different data types with ease

shows instructors what mathematics is used at the undergraduate level in various parts of economics separate sections provide students with opportunities to apply their mathematics in relevant economics contexts brings together many different mathematics applications to such varied economics topics

this book constitutes the thoroughly refereed post conference proceedings of the 6th international haifa verification conference hvc 2010 held in haifa israel in october 2010 the 10 revised full papers presented together with 7 invited papers were carefully reviewed and selected from 30 submissions the papers address all current issues challenges and future directions of verification for hardware software and hybrid systems and have a research focus on hybrid methods and the migration of methods and ideas between hardware and software static and dynamic analysis pre and post silicon

natural language generation nlg is a subfield of natural language processing nlp that is often characterized as the study of automatically converting non linguistic representations e g from databases or other knowledge sources into coherent natural language text in recent years the field has evolved substantially perhaps the most important new development is the current emphasis on data oriented methods and empirical evaluation progress in related areas such as machine translation dialogue system design and automatic text summarization and the resulting awareness of the importance of language generation the increasing availability of suitable corpora in recent years and the organization of shared tasks for nlg where different teams of researchers develop and evaluate their algorithms on a shared held out data set have had a considerable impact on the field and this book offers the first comprehensive overview of recent empirically oriented nlg research

this book presents exact that is minimal solutions to individual steps in the design process for digital microfluidic biochips dmfbbs as well as a one pass approach that combines all these steps in a single process all of the approaches discussed are based on a formal model that can easily be extended to cope with further design problems in addition to the exact methods heuristic approaches are provided and the complexity classes of various design problems are determined presents

exact methods to tackle a variety of design problems for digital microfluidic biochips dmfb describes an holistic one pass approach solving different design steps all at once based on a formal model of dmfb that is easily adaptable to deal with further design tasks

this book investigates in detail production scheduling technology in different kinds of shop environment to achieve sustainability manufacturing studies on shop scheduling have attracted engineers and scientists from various disciplines such as electrical mechanical automation computer and industrial engineering pursuing a holistic approach the book establishes a fundamental framework for this topic while emphasizing the importance of intelligent optimization and the significant influence of production scheduling in the manufacturing systems the book is intended for undergraduate and graduate students who are interested in intelligent optimization technology shop scheduling and green manufacturing systems or other scheduling applications

the three volume set Inai 4251 Inai 4252 and Inai 4253 constitutes the refereed proceedings of the 10th international conference on knowledge based intelligent information and engineering systems kes 2006 held in bournemouth uk in october 2006 the 480 revised papers presented were carefully reviewed and selected from about 1400 submissions the papers present a wealth of original research results from the field of intelligent information processing

the concept of fair division is as old as civil society itself aristotle s equal treatment of equals was the first step toward a formal definition of distributive fairness the concept of collective welfare more than two centuries old is a pillar of modern economic analysis reflecting fifty years of research this book examines the contribution of modern microeconomic thinking to distributive justice taking the modern axiomatic approach it compares normative arguments of distributive justice and their relation to efficiency and collective welfare the book begins with the epistemological status of the axiomatic approach and the four classic principles of distributive justice compensation reward exogenous rights and fitness it then presents the simple ideas of equal gains equal losses and proportional gains and losses the book discusses three cardinal interpretations of collective welfare bentham s utilitarian proposal to maximize the sum of individual utilities the nash product and the egalitarian leximin ordering it also discusses the two main ordinal definitions of collective welfare the majority relation and the borda scoring method the shapley value is the single most important contribution of game theory to distributive justice a formula to divide jointly produced costs or benefits fairly it is especially useful when the pattern of externalities renders useless the simple ideas of equality and proportionality the book ends with two versatile methods for dividing commodities efficiently and fairly when only ordinal preferences matter competitive equilibrium with equal incomes and egalitarian equivalence the book contains a wealth of empirical examples and exercises

mathematical logic an introduction is a textbook that uses mathematical tools to investigate mathematics itself in particular the concepts of proof and truth are examined the book presents the fundamental topics in mathematical logic and presents clear and complete proofs throughout the text such proofs are used to develop the language of propositional logic and the language of first order logic including the notion of a formal deduction the text also covers tarski s definition of truth and the computability concept it also provides coherent proofs of godel s completeness and incompleteness theorems moreover the text was written with the student in mind and thus it provides an accessible introduction to mathematical logic in particular the text explicitly shows the reader how to prove the basic theorems and presents detailed proofs throughout the book most undergraduate books on mathematical logic are written for a reader who is well versed in logical notation and mathematical proof this textbook is written to attract a wider audience including students who are not yet experts in the art of mathematical proof

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