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Proceedings of the ... Conference on Information Sciences and Systems - 1992

Applied Mathematics, Modeling and Computer Simulation - C.-H. Chen 2022-02-25
The pervasiveness of computers in every field of science, industry and everyday life has meant that applied mathematics, particularly in relation to modeling and simulation, has become ever more important in recent years. This book presents the proceedings of the 2021 International Conference on Applied Mathematics, Modeling and Computer Simulation (AMMCS 2021), hosted in Wuhan, China, and held as a virtual event from 13 to 14 November 2021. The aim of the conference is to foster the knowledge and understanding of recent advances across the broad fields of applied mathematics, modeling and computer simulation, and it provides an annual platform for scholars and researchers to communicate important recent developments in their areas of specialization to colleagues and other scientists in related disciplines. This year more than 150 participants were able to exchange knowledge and discuss recent developments via the conference. The book contains 115 peer-reviewed papers, selected from more than 250 submissions and ranging from the theoretical and conceptual to the strongly pragmatic and all addressing industrial best practice. Topics covered include mathematical modeling and applications, engineering applications and scientific computations, and the simulation of intelligent systems. Providing an overview of recent development and with a mix of practical experiences and enlightening ideas, the book will be of interest to researchers and practitioners everywhere.

Research Anthology on Computational Thinking, Programming, and Robotics in the Classroom - Management Association, Information Resources 2021-07-16
The education system is constantly growing and developing as more ways to teach and learn are implemented into the classroom. Recently, there has been a growing interest in teaching computational thinking with schools all over the world introducing it to the curriculum due to its ability to allow students to become proficient at problem solving using logic, an essential life skill. In order to provide the best education possible, it is imperative that computational thinking strategies, along with programming skills and the use of robotics in the classroom, be implemented in order for students to achieve maximum thought processing skills and computer competencies. The Research Anthology on Computational Thinking, Programming, and Robotics in the Classroom is an all-encompassing reference book that discusses how computational thinking, programming, and robotics can be used in education as well as the benefits and difficulties of implementing these elements into the classroom. The book includes strategies for preparing educators to teach computational thinking in the classroom as well as design techniques for incorporating these practices into various levels of school curriculum and within a variety of subjects. Covering topics ranging from decomposition to robot learning, this book is ideal for educators, computer scientists, administrators, academicians, students, and anyone interested in learning more about how computational thinking, programming, and robotics can change the current education system.

Computational Science and Its Applications – ICCSA 2017 - Osvaldo Gervasi 2017-07-14
The six-volume set LNCS 10404-10409 constitutes the refereed proceedings of the 17th International Conference on Computational Science and Its Applications, ICCSA 2017, held in Trieste, Italy, in July 2017. The 313 full papers and 12 short papers included in the 6-volume proceedings set were carefully reviewed and selected from 1052 submissions. Apart from the general tracks, ICCSA 2017 included 43 international workshops in various areas of computational sciences, ranging from computational science technologies to

specific areas of computational sciences, such as computer graphics and virtual reality. Furthermore, this year ICCSA 2017 hosted the XIV International Workshop On Quantum Reactive Scattering. The program also featured 3 keynote speeches and 4 tutorials.
Scientific and Technical Aerospace Reports - 1995

Mathematics - 1998
The authors of this text demonstrate using mathematical concepts to solve truly interesting problems about how our world works. Mathematical modeling is the process of looking at a problem, finding a mathematical core, working within that core, and coming back to see what mathematics tells you about the problem. Real problems ask such questions as: How do we create computer animations? Where should we locate a fire station? How do we effectively control an animal population? This approach integrates a mix of ideas in geometry, algebra, and data analysis with technologies of computers and graphing calculators.
Mathematics of Data/image Coding, Compression, and Encryption II - Mark S. Schmalz 1999

Mathematics of Data/image Pattern Recognition, Compression, and Encryption with Applications IX - G. X. Ritter 2006
Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature.
Computer Science and Applications - Ally Hu 2015-06-11
The 2014 Asia-Pacific Conference on Computer Science and Applications was held in Shanghai, December 27-28, 2014. These CSAC-2014 proceedings include 105 selected papers, which focus not only on the research of science and technology of computer sciences, but also on the research of applications, aiming at a quick and immediate effect on
Conference Proceedings. New Perspectives in Science Education - Pixel 2017

Neural Information Processing - Derong Liu 2017-11-07
The six volume set LNCS 10634, LNCS 10635, LNCS 10636, LNCS 10637, LNCS 10638, and LNCS 10639 constitues the proceedings of the 24rd International Conference on Neural Information Processing, ICONIP 2017, held in Guangzhou, China, in November 2017. The 563 full papers presented were carefully reviewed and selected from 856 submissions. The 6 volumes are organized in topical sections on Machine Learning, Reinforcement Learning, Big Data Analysis, Deep Learning, Brain-Computer Interface, Computational Finance, Computer Vision, Neurodynamics, Sensory Perception and Decision Making, Computational Intelligence, Neural Data Analysis, Biomedical Engineering, Emotion and Bayesian Networks, Data Mining, Time-Series Analysis, Social Networks, Bioinformatics, Information Security and Social Cognition, Robotics and Control, Pattern Recognition, Neuromorphic Hardware and Speech Processing.
Mathematics of Data/image Coding, Compression, and Encryption - 2005

Biomedical Engineering and Environmental Engineering - David Chan 2015-05-06
This conference series is a forum for enhancing mutual understanding between Biomedical Engineering

and Environmental Engineering field. This proceeding provides contributions from many experts representing industry and academic establishments worldwide. The researchers are from different countries and professional. The conference brought

Advanced Concepts for Intelligent Vision Systems - Wilfried Philips 2007-08-18
This book constitutes the refereed proceedings of the 9th International Conference on Advanced Concepts for Intelligent Vision Systems, ACIVS 2007, held in Delft, The Netherlands, August 2007. Coverage includes noise reduction and restoration, segmentation, motion estimation and tracking, video processing and coding, camera calibration, image registration and stereo matching, biometrics and security, medical imaging, image retrieval, as well as classification and recognition.

Patterns, Predictions, and Actions: Foundations of Machine Learning - Moritz Hardt 2022-08-23
An authoritative, up-to-date graduate textbook on machine learning that highlights its historical context and societal impacts Patterns, Predictions, and Actions introduces graduate students to the essentials of machine learning while offering invaluable perspective on its history and social implications. Beginning with the foundations of decision making, Moritz Hardt and Benjamin Recht explain how representation, optimization, and generalization are the constituents of supervised learning. They go on to provide self-contained discussions of causality, the practice of causal inference, sequential decision making, and reinforcement learning, equipping readers with the concepts and tools they need to assess the consequences that may arise from acting on statistical decisions. Provides a modern introduction to machine learning, showing how data patterns support predictions and consequential actions Pays special attention to societal impacts and fairness in decision making Traces the development of machine learning from its origins to today Features a novel chapter on machine learning benchmarks and datasets Invites readers from all backgrounds, requiring some experience with probability, calculus, and linear algebra An essential textbook for students and a guide for researchers

Theoretical Computer Science and Discrete Mathematics - S. Arumugam 2017-08-14
This volume constitutes the refereed post-conference proceedings of the International Conference on Theoretical Computer Science and Discrete Mathematics, held in Krishnankoil, India, in December 2016. The 57 revised full papers were carefully reviewed and selected from 210 submissions. The papers cover a broad range of topics such as line graphs and its generalizations, large graphs of given degree and diameter, graphoidal covers, adjacency spectrum, distance spectrum, b-coloring, separation dimension of graphs and hypergraphs, domination in graphs, graph labeling problems, subsequences of words and Parike matrices, lambda-design conjecture, graph algorithms and interference model for wireless sensor networks.

Emerging Technologies for Healthcare - Monika Mangla 2021-07-20
?Emerging Technologies for Healthcare? beginnt mit einer IoT-basierten Lösung für die Automatisierung im Gesundheitssektor, wodurch Verfahren auf Grundlage von fortschrittlichen Deep-Learning-Techniken ermöglicht werden. Praktische Lösungen, die auf verschiedenen Ansätzen des maschinellen Lernens beruhen, werden vorgestellt und auf die Analyse und Vorhersage von Krankheiten angewandt. Ein Beispiel ist die Nutzung einer dreidimensionalen Matrix für die Behandlung chronischer Nierenerkrankungen, die Diagnose und Prognose des erworbenen demyelinisierenden Syndroms und von Autismus-Spektrum-Störungen sowie die Erkennung von Lungenentzündungen. Außerdem werden verschiedene geeignete Ansätze vorgestellt, wie die Gesundheitssysteme mit COVID-19-Fällen umgehen können. Daneben wird ein detaillierter Erkennungsmechanismus dargelegt, mit dessen Hilfe Lösungen entwickelt werden können, um von der Handschrift auf die Persönlichkeit zu schließen, und es werden neuartige Ansätze für die Stimmungsanalyse aufgezeigt, die mit ausreichenden Daten und verschiedenen Betrachtungsweisen untermauert sind. Dieses Buch enthält nicht nur theoretische Ansätze und Algorithmen, sondern zeigt auch auf, welche Schritte bei der Problemanalyse mithilfe von Daten, Prozessen, Berichten und Optimierungstechniken durchlaufen werden. Es ist ein umfassendes Nachschlagewerk für die Lösung verschiedener Probleme anhand von Algorithmen für das maschinelle Lernen.

Spatial Modeling in GIS and R for Earth and Environmental Sciences - Hamid Reza Pourghasemi 2019-01-18
Spatial Modeling in GIS and R for Earth and Environmental Sciences offers an integrated approach to spatial modelling using both GIS and R. Given the importance of Geographical Information Systems and geostatistics across a variety of applications in Earth and Environmental Science, a clear link between GIS and open source software is essential for the study of spatial objects or phenomena that occur in the real world and facilitate problem-solving. Organized into clear sections on applications and using case studies, the book helps researchers to more quickly understand GIS data and formulate more complex conclusions. The book is the first reference to provide methods and applications for combining the use of R and GIS in modeling spatial processes. It is an essential tool for students and researchers in earth and environmental science, especially those looking to better utilize GIS and spatial modeling. Offers a clear, interdisciplinary guide to serve researchers in a variety of fields, including hazards, land surveying, remote sensing, cartography, geophysics, geology, natural resources, environment and geography Provides an overview, methods and case studies for each application Expresses concepts and methods at an appropriate level for both students and new users to learn by example
IGARSS. - 2004

Mathematics and Applications of Data/image Coding, Compression, and Encryption III - Mark S. Schmalz 2000

Indian Science Abstracts - 2011-10

Environment and Planning - 2005

Advanced Topics in Finite Element Analysis - James F. Cory 1988

Proceedings of the Sixth International Conference on Mathematics and Computing - Debasis Giri 2020-12-10
This book features selected papers from the 6th International Conference on Mathematics and Computing (ICMC 2020), organized by Sikkim University, Gangtok, Sikkim, India, during September 2020. It covers recent advances in the field of mathematics, statistics, and scientific computing. The book presents innovative work by leading academics, researchers, and experts from industry.
Radar Sensor Technology - 1999

Aeronautical Engineering - 1991

Interpretable Machine Learning - Christoph Molnar 2020
This book is about making machine learning models and their decisions interpretable. After exploring the concepts of interpretability, you will learn about simple, interpretable models such as decision trees, decision rules and linear regression. Later chapters focus on general model-agnostic methods for interpreting black box models like feature importance and accumulated local effects and explaining individual predictions with Shapley values and LIME. All interpretation methods are explained in depth and discussed critically. How do they work under the hood? What are their strengths and weaknesses? How can their outputs be interpreted? This book will enable you to select and correctly apply the interpretation method that is most suitable for your machine learning project.
Intelligent Information and Database Systems - Ngoc Thanh Nguyen 2020-03-03
The two-volume set LNAI 12033 and 11034 constitutes the refereed proceedings of the 12th Asian Conference on Intelligent Information and Database Systems, ACIIDS 2020, held in Phuket, Thailand, in March 2020. The total of 105 full papers accepted for publication in these proceedings were carefully reviewed and selected from 285 submissions. The papers of the first volume are organized in the following topical sections: Knowledge Engineering and Semantic Web, Natural Language Processing, Decision Support and Control Systems, Computer Vision Techniques, Machine Learning and Data Mining, Deep Learning Models, Advanced Data Mining Techniques and Applications, Multiple Model Approach to Machine Learning. The papers of the second volume are divided into these topical sections: Application of

Intelligent Methods to Constrained Problems, Automated Reasoning with Applications in Intelligent Systems, Current Trends in Arti cial Intelligence, Optimization, Learning,and Decision-Making in Bioinformatics and Bioengineering, Computer Vision and Intelligent Systems, Data Modelling and Processing for Industry 4.0, Intelligent Applications of Internet of Things and Data AnalysisTechnologies, Intelligent and Contextual Systems, Intelligent Systems and Algorithms in Information Sciences, Intelligent Supply Chains and e-Commerce, Privacy, Security and Trust in Arti cial Intelligence, Interactive Analysis of Image, Video and Motion Data in LifeSciences.

Selected Water Resources Abstracts - 1991

Imaging - 1994

Perfect ICT Every Lesson - Mark Anderson 2013-09-30
Technology is at the heart of learning for all of us and every teacher needs to be using social media, mobile technologies and transformational digital learning opportunities as an integral part of their range of strategies for helping students make the maximum progress. In this book in the 'Perfect' series, Mark Anderson, the ICT Evangelist, takes the technology-relatedelements of all the recent subject reports from Ofsted and using them offers clear and practical strategies that are proven to be successful in classrooms and offers up ideas for how they can be turned into a daily reality for all teachers.

Active Media Technology - Jiming Liu 2009-10-22
This book constitutes the refereed proceedings of the 5th International Conference on Active Media Technology, AMT 2009, held in Beijing, China, in October 2009. The 47 revised full papers and the 6 keynote talks were carefully reviewed and selected. The papers reflect the shared forum for researchers and practitioniers from diverse fields, such as computer science, information technology, artificial intelligence, media engineering, economics, data mining, data and knowledge engineering, intelligent agent technology, human computer interaction, complex systems and systems science. The book offers new insights into the main research challenges and development of AMT by revealing the interplay between the studies of human informatics and research of informatics on the Web/Internet, mobile and wireless centric intelligent information processing systems.

Analysis and Application -

GCSE Geography Edexcel B - 2020-07-16
A student-friendly and engaging resource for the 2016 Edexcel GCSE Geography B specification, this brand new course is written to match the demands of the specification. As well as providing thorough and

rigorous coverage of the spec, this book is designed to engage students in their learning and to motivate them to progress.

Mathematics for Machine Learning - Marc Peter Deisenroth 2020-04-23
The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Computational Mathematics Modeling in Cancer Analysis - Wenjian Qin 2022-09-22
This book constitutes the proceedings of the First Workshop on Computational Mathematics Modeling in Cancer Analysis (CMMCA2022), held in conjunction with MICCAI 2022, in Singapore in September 2022. Due to the COVID-19 pandemic restrictions, the CMMCA2022 was held virtually. DALI 2022 accepted 15 papers from the 16 submissions that were reviewed. A major focus of CMMCA2022 is to identify new cutting-edge techniques and their applications in cancer data analysis in response to trends and challenges in theoretical, computational and applied aspects of mathematics in cancer data analysis.

IGARSS 2004 - 2004

Advances in Neural Networks – ISNN 2018 - Tingwen Huang 2018-05-25
This book constitutes the refereed proceedings of the 15th International Symposium on Neural Networks, ISNN 2018, held in Minsk, Belarus in June 2018.The 98 revised regular papers presented in this volume were carefully reviewed and selected from 214 submissions. The papers cover many topics of neural network-related research including intelligent control, neurodynamic analysis, bio-signal, bioinformatics and biomedical engineering, clustering, classification, forecasting, models, algorithms, cognitive computation, machine learning, and optimization.

The 2005 HST Calibration Workshop - Anton Koekemoer 2006

AFOSR Technical Report Summaries - 1984