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HCI in Games: Serious and Immersive Games - Xiaowen Fang 2021-07-03
This two-volume set LNCS 12789 and 12790 constitutes the refereed proceedings of the Third International Conference on HCI in Games, HCI-Games 2021, held as part of the 23rd International Conference, HCI International 2021, which took place in July 2021. Due to COVID-19 pandemic the conference was held virtually. The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions. The papers of HCI-Games 2021, Part II are organized in topical sections named: Serious Games; Gamification and Learning; Mixed and Virtual Reality Games.
Business Intelligence - Marinela Mircea 2012-02-01
The work addresses to specialists in informatics, with preoccupations in development of Business Intelligence systems, and also to beneficiaries of such systems, constituting an important scientific contribution. Experts in the field contribute with new ideas and concepts regarding the development of Business Intelligence applications and their adoption in organizations. This book presents both an overview of Business Intelligence and an in-depth analysis of current applications and future directions for this technology. The book covers a large area, including methods, concepts, and case studies related to: constructing an enterprise business intelligence maturity model, developing an agile architecture framework that leverages the strengths of business intelligence, decision management and service orientation, adding semantics to Business Intelligence, towards business intelligence over unified structured and unstructured data using XML, density-based clustering and anomaly detection, data mining based on neural networks.
Metadata and Semantics Research - Emmanouel Garoufallou 2013-10-25
This book constitutes the refereed proceedings of the 7th Metadata and Semantics Research Conference, MTSR 2013, held in Thessaloniki, Greece, in November 2013. The 29 revised papers presented were carefully reviewed and selected from 89 submissions. The papers are organized in several sessions and tracks. The sessions cover the following topics: platforms for research datasets, system architecture and data management; metadata and ontology validation, evaluation, mapping and interoperability; content management. The tracks cover the following topics: big data and digital libraries in health, science and technology; European and national projects and project networking; metadata and semantics for open repositories, research information systems and data infrastructures; metadata and semantics for cultural collections and applications; metadata and semantics for agriculture, food and environment.
Data Driven - Jeremy David Curuksu 2018-06-06
This book is a “scientific” introduction to management consulting that

covers elementary and more advanced concepts, such as strategy and client-relationship. It discusses the emerging role of information technologies in consulting activities and introduces the essential tools in data science, assuming no technical background. Drawing on extensive literature reviews with more than 200 peer reviewed articles, reports, books and surveys referenced, this book has at least four objectives: to be scientific, modern, complete and concise. An interactive version of some sections (industry snapshots, method toolbox) is freely accessible at econsultingdata.com.

Towards Advanced Data Analysis by Combining Soft Computing and Statistics - Christian Borgelt 2012-08-29

Soft computing, as an engineering science, and statistics, as a classical branch of mathematics, emphasize different aspects of data analysis. Soft computing focuses on obtaining working solutions quickly, accepting approximations and unconventional approaches. Its strength lies in its flexibility to create models that suit the needs arising in applications. In addition, it emphasizes the need for intuitive and interpretable models, which are tolerant to imprecision and uncertainty. Statistics is more rigorous and focuses on establishing objective conclusions based on experimental data by analyzing the possible situations and their (relative) likelihood. It emphasizes the need for mathematical methods and tools to assess solutions and guarantee performance. Combining the two fields enhances the robustness and generalizability of data analysis methods, while preserving the flexibility to solve real-world problems efficiently and intuitively.

Web Information Systems Engineering – WISE 2016 - Wojciech Cellary 2016-11-01

This two volume set LNCS 10041 and LNCS 10042 constitutes the proceedings of the 17th International Conference on Web Information Systems Engineering, WISE 2016, held in Shanghai, China, in November 2016. The 39 full papers and 31 short papers presented in these proceedings were carefully reviewed and selected from 233 submissions. The papers cover a wide range of topics such as Social Network Data Analysis; Recommender Systems; Topic Modeling; Data Diversity; Data Similarity; Context-Aware Recommendation; Prediction; Big Data Processing; Cloud Computing; Event Detection; Data Mining; Sentiment Analysis; Ranking in Social Networks; Microblog Data Analysis; Query Processing; Spatial and Temporal Data; Graph Theory; Non-Traditional Environments; and Special Session on Data Quality and Trust in Big Data.

Cloud Computing and Security - Xingming Sun 2016-11-03

This two volume set LNCS 10039 and 10040 constitutes the refereed post-conference proceedings of the Second International Conference on Cloud Computing and Security, ICCCS 2016, held in Nanjing, China, during July 29-31, 2016. The 97 papers of these volumes were carefully reviewed and selected from 272 submissions. The papers are organized in topical sections such as: Information Hiding, Cloud Computing, Cloud Security, IOT Applications, Multimedia Applications, Multimedia Security and Forensics.

Foundations of Augmented Cognition: Neuroergonomics and Operational Neuroscience - Dylan D. Schmorrow 2016-07-04

This volume constitutes the refereed proceedings of the 10th International Conference on Foundations of Augmented Cognition, AC 2016, held as part of the 18th International Conference on Human-Computer Interaction, HCII 2016, which took place in Toronto, Canada, in July 2016. HCII 2016 received a total of 4354 submissions, of which 1287 papers were accepted for publication after a careful reviewing process. The 41 papers presented in this volume were organized in topical sections named: augmented cognition in training and education; human cognition and behavior in complex tasks and environments; interaction in augmented cognition; and social cognition.

Introduction to Research and Medical Literature for Health Professionals - J. Glenn Forister 2019-03-12

Introduction to Research and Medical Literature for Health Professionals, Fifth Edition is an essential resource to help students, faculty, and practitioners understand the research process, interpret data, comprehend results, and incorporate findings into practice. From choosing a research project and developing the research process design,

to systematically gathering information, analyzing, interpreting data, differentiating among conflicting results, and finally understanding the overall evaluation, Introduction to Research and Medical Literature for Health Professionals, Fifth Edition will ease fears and help students and practitioners develop research skills to acquire and contribute knowledge that benefits their patients.

Data Mining and Big Data - Ying Tan 2021-10-30

This two-volume set, CCIS 1453 and CCIS 1454, constitutes refereed proceedings of the 6th International Conference on Data Mining and Big Data, DMBD 2021, held in Guangzhou, China, in October 2021. The 57 full papers and 28 short papers presented in this two-volume set were carefully reviewed and selected from 258 submissions. The papers present the latest research on advantages in theories, technologies, and applications in data mining and big data. The volume covers many aspects of data mining and big data as well as intelligent computing methods applied to all fields of computer science, machine learning, data mining and knowledge discovery, data science, etc.

Spatial Reasoning for Effective GIS - Joseph K. Berry 1996-10-14

Spatial Reasoning for Effective GIS by Joseph K. Berry This incisive and witty book describes the development of geographic technology from maps that simply tell us "Where is what?" to systems that help us decide "So what?" It encourages new understandings of mapped data, data analysis procedures, and the uses of maps, fostering an appreciation of GIS as an effective analytical tool in many complex processes. The cover image was generated by Innovative GIS Solutions, Inc., Fort Collins, Colo., using its RAPiD Surfing software to enhance the terrain analysis capabilities available with the ARC/INFO GIS.?* The image was created using Digital Elevation Model data for the Elsinore Valley Municipal Water District of the Santa Ana mountains in southern California. The image represents a 3-D perspective looking north toward Lake Elsinore with partial renderings of analytical hillshading and shaded relief draped on a wire frame elevation model. ?*RAPiD Surfing is a trademark of Innovative GIS Solutions, Inc., Fort Collins, Colo. ARC/INFO is a registered trademark of Environmental Systems Research Institute Inc., Redlands, Calif.

Semantic Technology - Wooju Kim 2014-05-20

This book constitutes the proceedings of the Third Joint International Semantic Technology Conference, JIST 2013, held in Seoul, South Korea, in November 2013. The 32 papers, included four tutorials and 5 workshop papers, in this volume were carefully reviewed and selected from numerous submissions. The contributions are organized in topical sections on semantic Web services, multilingual issues, biomedical applications, ontology construction, semantic reasoning, semantic search and query, ontology mapping, and learning and discovery.

Introduction to Social Statistics - Thomas Dietz 2009-03-02

Introduction to Social Statistics is a basic statistics text with a focus on the use of models for thinking through statistical problems, an accessible and consistent structure with ongoing examples across chapters, and an emphasis on the tools most commonly used in contemporary research. Lively introductory textbook that uses three strategies to help students master statistics: use of models throughout; repetition with variation to underpin pedagogy; and emphasis on the tools most commonly used in contemporary research Demonstrates how more than one statistical method can be used to approach a research question Enhanced learning features include a ‘walk-through’ of statistical concepts, applications, features, advanced topics boxes, and a ‘What Have We Learned’ section at the end of each chapter Supported by a website containing instructor materials including chapter-by-chapter PowerPoint slides, answers to exercises, and an instructor guide Visit www.wiley.com/go/dietz for additional student and instructor resources.

Foundations of Data Science - Avrim Blum 2020-01-23

This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning, high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of and important algorithms for machine learning, algorithms and analysis for clustering,

probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed including the law of large numbers, tail inequalities, analysis of random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and analysis of algorithms for data.

SOFSEM 2018: Theory and Practice of Computer Science - A Min Tjoa 2018-01-12

This book constitutes the refereed proceedings of the 44th International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2018, held in Krems, Austria, in January/February 2018. The 48 papers presented in this volume were carefully reviewed and selected from 97 submissions. They were organized in topical sections named: foundations of computer science; software engineering: advances methods, applications, and tools; data, information and knowledge engineering; network science and parameterized complexity; model-based software engineering; computational models and complexity; software quality assurance and transformation; graph structure and computation; business processes, protocols, and mobile networks; mobile robots and server systems; automata, complexity, completeness; recognition and generation; optimization, probabilistic analysis, and sorting; filters, configurations, and picture encoding; machine learning; text searching algorithms; and data model engineering.

The Book of Why - Judea Pearl 2018-05-15

A Turing Award-winning computer scientist and statistician shows how understanding causality has revolutionized science and will revolutionize artificial intelligence "Correlation is not causation." This mantra, chanted by scientists for more than a century, has led to a virtual prohibition on causal talk. Today, that taboo is dead. The causal revolution, instigated by Judea Pearl and his colleagues, has cut through a century of confusion and established causality -- the study of cause and effect -- on a firm scientific basis. His work explains how we can know easy things, like whether it was rain or a sprinkler that made a sidewalk wet; and how to answer hard questions, like whether a drug cured an illness. Pearl's work enables us to know not just whether one thing causes another: it lets us explore the world that is and the worlds that could have been. It shows us the essence of human thought and key to artificial intelligence. Anyone who wants to understand either needs The Book of Why.

Introduction to the Practice of Statistics - David S. Moore 2006

With its focus on data analysis, statistical reasoning, and the way statisticians actually work, Introduction to the Practice of Statistics (IPS) helped bring the power of critical thinking and practical applications to today's statistics classroom. Unlike more traditional "plug and chug" /formula driven texts, IPS de-emphasizes probability and gives students a deeper understanding of statistics.

Engineering Agile Big-Data Systems - Kevin Feeney 2022-09-01

To be effective, data-intensive systems require extensive ongoing customisation to reflect changing user requirements, organisational policies, and the structure and interpretation of the data they hold. Manual customisation is expensive, time-consuming, and error-prone. In large complex systems, the value of the data can be such that exhaustive testing is necessary before any new feature can be added to the existing design. In most cases, the precise details of requirements, policies and data will change during the lifetime of the system, forcing a choice between expensive modification and continued operation with an inefficient design.Engineering Agile Big-Data Systems outlines an approach to dealing with these problems in software and data engineering, describing a methodology for aligning these processes throughout product lifecycles. It discusses tools which can be used to achieve these goals, and, in a number of case studies, shows how the tools and methodology have been used to improve a variety of academic and business systems.

Model and Data Engineering - El Hassan Abdelwahed 2018-10-19

This book constitutes the refereed proceedings of the 8h International Conference on Model and Data Engineering, MEDI 2018, held in Marrakesh, Morocco, in October 2018. The 23 full papers and 4 short papers presented together with 2 invited talks were carefully reviewed and selected from 86 submissions. The papers covered the recent and relevant topics in the areas of databases; ontology and model-driven engineering; data fusion, classsification and learning; communication and information technologies; safety and security; algorithms and text processing; and specification, verification and validation.

SOFSEM 2010: Theory and Practice of Computer Science - Jan van Leeuwen 2010-01-20

This book constitutes the refereed proceedings of the 36th Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2010, held in Špindleruv Mlýn, Czech Republic, in January 2009. The 53 revised full papers, presented together with 11 invited contributions, were carefully reviewed and selected from 134 submissions. SOFSEM 2010 was organized around the following four tracks: Foundations of computer science, principles of software construction, Data, knowledge, and intelligent systems and Web science.

Bayesian Reasoning and Machine Learning - David Barber 2012-02-02

A practical introduction perfect for final-year undergraduate and graduate students without a solid background in linear algebra and calculus.

Protecting Your Privacy in a Data-Driven World - Claire McKay Bowen 2021-11-22

At what point does the sacrifice to our personal information outweigh the public good? If public policymakers had access to our personal and confidential data, they could make more evidence-based, data-informed decisions that could accelerate economic recovery and improve COVID-19 vaccine distribution. However, access to personal data comes at a steep privacy cost for contributors, especially underrepresented groups. Protecting Your Privacy in a Data-Driven World is a practical, nontechnical guide that explains the importance of balancing these competing needs and calls for careful consideration of how data are collected and disseminated by our government and the private sector. Not addressing these concerns can harm the same communities policymakers are trying to protect through data privacy and confidentiality legislation.

Knowledge Representation and Reasoning - Ronald Brachman 2004-05-19

Knowledge representation is at the very core of a radical idea for understanding intelligence. This book talks about the central concepts of knowledge representation developed over the years. It is suitable for researchers and practitioners in database management, information retrieval, object-oriented systems and artificial intelligence.

Reasoning Web. Semantic Technologies for Intelligent Data Access - Sebastian Rudolph 2013-07-22

This volume contains the lecture notes of the 9th Reasoning Web Summer School 2013, held in Mannheim, Germany, in July/August 2013. The 2013 summer school program covered diverse aspects of Web reasoning, ranging from scalable lightweight formalisms such as RDF to more expressive ontology languages based on description logics. It also featured foundational reasoning techniques used in answer set programming and ontology-based data access as well as emerging topics like geo-spatial information handling and reasoning-driven information extraction and integration.

Knowledge-based Software Engineering - Maria Virvou 2008

The papers in this publication address many topics in the context of knowledge-based software engineering, including new challenges that have arisen in this demanding area of research. Topics in this book are: knowledge-based requirements engineering, domain analysis and modeling; development processes for knowledge-based applications; knowledge acquisition; software tools assisting the development; architectures for knowledge-based systems and shells including intelligent agents; intelligent user interfaes and human-machine interaction; development of multi-modal interfaces; knowledge technologies for semantic web; internet-based interactive applications;

knowledge engineering for process management and project management; methodology and tools for knowldge discovery and data mining; knowledge-based methods and tools for testing, verification and validation, maintenance and evolution; decision support methods for software engineering and cognitive systems; knowledge management for business processes, worflows and enterprise modeling; program understanding, programming knowledge, modeling programs and programmers; and software engineering methods for intelligent tutoring systems.

Linking Enterprise Data - David Wood 2010-11-10

Enterprise data is growing at a much faster rate than traditional technologies allow. New enterprise architectures combining existing technologies are desperately needed. This book suggests a way forward by applying new techniques of the World Wide Web to enterprise information systems. Linking Enterprise Data is an edited volume contributed by worldwide leaders in Semantic Web and Linked Data research, standards development and adoption. Linking enterprise data is the application of World Wide Web architecture principles to real-world information management issues faced by commercial, not-for-profit and government enterprises. This book is divided into four sections: Benefits of applying Linked Data principles in enterprise settings, enterprise approval and support of Linked Data projects, specific Linked Data techniques and a number of real-world success stories from early enterprise adopters. Linking Enterprise Data targets professionals working as CTOs, CIOs, enterprise architects, project managers and application developers in commercial, not-for-profit and government organizations concerned with scalability, flexibility and robustness of information management systems. Computer science graduate students and researchers focusing on enterprise information integration will also benefit.

Reasoning with Data - Jeffrey M. Stanton 2017-05-22

Engaging and accessible, this book teaches readers how to use inferential statistical thinking to check their assumptions, assess evidence about their beliefs, and avoid overinterpreting results that may look more promising than they really are. It provides step-by-step guidance for using both classical (frequentist) and Bayesian approaches to inference. Statistical techniques covered side by side from both frequentist and Bayesian approaches include hypothesis testing, replication, analysis of variance, calculation of effect sizes, regression, time series analysis, and more. Students also get a complete introduction to the open-source R programming language and its key packages. Throughout the text, simple commands in R demonstrate essential data analysis skills using real-data examples. The companion website provides annotated R code for the book's examples, in-class exercises, supplemental reading lists, and links to online videos, interactive materials, and other resources. ÿ Pedagogical Features *Playful, conversational style and gradual approach; suitable for students without strong math backgrounds. *End-of-chapter exercises based on real data supplied in the free R package. *Technical explanation and equation/output boxes. *Appendices on how to install R and work with the sample datasets.ÿ

Application of Big Data, Blockchain, and Internet of Things for Education Informatization - Mian Ahmad Jan

Causality - Judea Pearl 2009-09-14

Causality offers the first comprehensive coverage of causal analysis in many sciences, including recent advances using graphical methods. Pearl presents a unified account of the probabilistic, manipulative, counterfactual and structural approaches to causation, and devises simple mathematical tools for analyzing the relationships between causal connections, statistical associations, actions and observations. The book will open the way for including causal analysis in the standard curriculum of statistics, artificial intelligence ...

Multimedia Data Mining - Zhongfei Zhang 2008-12-02

Collecting the latest developments in the field, Multimedia Data Mining: A Systematic Introduction to Concepts and Theory defines multimedia data mining, its theory, and its applications. Two of the most active researchers in multimedia data mining explore how this young area has

rapidly developed in recent years. The book first discusses the theoretical foundations of multimedia data mining, presenting commonly used feature representation, knowledge representation, statistical learning, and soft computing techniques. It then provides application examples that showcase the great potential of multimedia data mining technologies. In this part, the authors show how to develop a semantic repository training method and a concept discovery method in an imagery database. They demonstrate how knowledge discovery helps achieve the goal of imagery annotation. The authors also describe an effective solution to large-scale video search, along with an application of audio data classification and categorization. This novel, self-contained book examines how the merging of multimedia and data mining research can promote the understanding and advance the development of knowledge discovery in multimedia data.

Soft Computing for Biomedical Applications and Related Topics - Vladik Kreinovich 2020-06-29

This book presents innovative intelligent techniques, with an emphasis on their biomedical applications. Although many medical doctors are willing to share their knowledge – e.g. by incorporating it in computer-based advisory systems that can benefit other doctors – this knowledge is often expressed using imprecise (fuzzy) words from natural language such as “small,” which are difficult for computers to process. Accordingly, we need fuzzy techniques to handle such words. It is also desirable to extract general recommendations from the records of medical doctors’ decisions – by using machine learning techniques such as neural networks. The book describes state-of-the-art fuzzy, neural, and other techniques, especially those that are now being used, or potentially could be used, in biomedical applications. Accordingly, it will benefit all researchers and students interested in the latest developments, as well as practitioners who want to learn about new techniques.

Big Data - Zongben Xu 2018-10-10

This volume constitutes the proceedings of the 6th CCF Conference, Big Data 2018, held in Xi'an, China, in October 2018. The 32 revised full papers presented in this volume were carefully reviewed and selected from 880 submissions. The papers are organized in topical sections on natural language processing and text mining; big data analytics and smart computing; big data applications; the application of big data in machine learning; social networks and recommendation systems; parallel computing and storage of big data; data quality control and data governance; big data system and management.

Artificial Intelligence Research and Development - Isabel Aguiló 2003

The main scope of this publication is to promote collaborations among research groups in the community and to interchange ideas, allowing researchers to get a quick overview of the state of the art. This volume looks at topics including robotics and computer vision and multiagent systems.

Advanced Web and Network Technologies, and Applications - Heng Tao Shen 2006-01-09

This book constitutes the refereed joint proceedings of four international workshops held in conjunction with the 8th Asia-Pacific Web Conference, APWeb 2006, in Harbin, China in January 2006. The 88 revised full papers and 58 revised short papers presented are very specific and contribute to enlarging the spectrum of the more general topics treated in the APWeb 2006 main conference.

Linked Data Management - Andreas Harth 2016-04-19

Linked Data Management presents techniques for querying and managing Linked Data that is available on today’s Web. The book shows how the abundance of Linked Data can serve as fertile ground for research and commercial applications. The text focuses on aspects of managing large-scale collections of Linked Data. It offers a detailed introduction to Linked Data and related standards, including the main principles distinguishing Linked Data from standard database technology. Chapters also describe how to generate links between datasets and explain the overall architecture of data integration systems based on Linked Data. A large part of the text is devoted to query processing in different setups. After presenting methods to publish relational data as Linked Data and efficient centralized processing, the

book explores lookup-based, distributed, and parallel solutions. It then addresses advanced topics, such as reasoning, and discusses work related to read-write Linked Data for system interoperation. Despite the publication of many papers since Tim Berners-Lee developed the Linked Data principles in 2006, the field lacks a comprehensive, unified overview of the state of the art. Suitable for both researchers and practitioners, this book provides a thorough, consolidated account of the new data publishing and data integration paradigm. While the book covers query processing extensively, the Linked Data abstraction furnishes more than a mechanism for collecting, integrating, and querying data from the open Web—the Linked Data technology stack also allows for controlled, sophisticated applications deployed in an enterprise environment.

Advances in Data Mining - Theoretical Aspects and Applications - Petra Perner 2007-08-18

The papers in this volume represent the proceedings of the 7th Industrial Conference on Data Mining. They are organized into topical sections on aspects of classification and prediction, clustering, web mining, data mining in medicine, applications of data mining, time series and frequent pattern mining, and association rule mining. Readers gain new insights into theories underlying data mining and discover state-of-the-technology applications.

Advances in Spatio-Temporal Analysis - Xinming Tang 2007-08-23

Developments in Geographic Information Technology have raised the expectations of users. A static map is no longer enough; there is now demand for a dynamic representation. Time is of great importance when operating on real world geographical phenomena, especially when these are dynamic. Researchers in the field of Temporal Geographical Infor

Making Sense of Numbers - Jane E. Miller 2021-08-30

Making Sense of Numbers teaches students the skills they need to be both consumers and producers of quantitative research: able to read about, collect, calculate, and communicate numeric information for both everyday tasks and school or work assignments. The text teaches how to avoid making common errors of reasoning, calculation, or interpretation by introducing a systematic approach to working with numbers, showing students how to figure out what a particular number means. The text also demonstrates why it is important to apply a healthy dose of skepticism to the numbers we all encounter, so that we can understand how those numbers can (and cannot) be interpreted in their real-world context. Jane E. Miller uses annotated examples on a wide variety of topics to illustrate how to use new terms, concepts, and approaches to working with numbers. End-of-chapter engagement activities designed based on Miller’s three decades of teaching experience can be used in class or as homework assignments, with some for students to do individually and others intended for group discussion. The book is ideally suited for a range of courses, including quantitative reasoning, research methods, basic statistics, data analysis, and communicating quantitative information. An instructor website for the book at https://edge.sagepub.com/millernumbers1e includes a test bank, editable PowerPoint slides, and tables and figures from the book.

Critical Thinking - Francis Watanabe Dauer 1989

A demanding introduction to logic and critical thinking, this book offers more traditional means of teaching the art of reasoning at a time when the field has become almost mathematical. Francis Dauer has rethought the framework for teaching reasoning in general and formal logic in particular, the desired epistemological context, and the role of the fallacies. The result is a coherent and very readable work, informed by Dauer's extensive experience teaching and writing on the subject.

Diagrammatic Representation and Inference - Amrita Basu 2021-09-21

This book constitutes the refereed proceedings of the 12th International Conference on the Theory and Application of Diagrams, Diagrams 2021, held virtually in September 2021. The 16 full papers and 25 short papers presented together with 16 posters were carefully reviewed and selected from 94 submissions. The papers are organized in the following topical sections: design of concrete diagrams; theory of diagrams; diagrams and mathematics; diagrams and logic; new representation systems; analysis of diagrams; diagrams and computation; cognitive analysis; diagrams as structural tools; formal diagrams; and understanding thought processes.

