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Artificial Intelligence An International Perspective

Lecture Notes In Computer Science

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Artificial Intelligence An International Perspective Lecture Notes In Computer Science:

International Perspectives of Generative AI in Education Guy Tchibozo,2025-12-10 This book examines the ongoing emergence of generative artificial intelligence GenAI in education. It focuses both on the potential and effects of GenAI and on its limitations risks and challenges. Particular emphasis is placed on the impact that GenAI has on pedagogy and knowledge assessment across a range of educational fields and disciplines as well as on teacher preparation development productivity and workload. While artificial intelligence has gradually penetrated the field of education over the last 30 years the emergence of GenAI which we are now witnessing is changing the game. From a perspective that transcends national specificities the analyses address all levels of education as well as the development of education policies. In terms of epistemology and methodology the work draws on a variety of research frameworks theoretical conceptual empirical and methodologies including qualitative quantitative and mixed methods research. This work offers a series of suggestions and recommendations as well as avenues for future research in a range of areas including AI GenAI literacy teacher preparation and development curriculum updating pedagogy knowledge assessment teacher effectiveness learner development education policy and ethics. It also warns of the risks posed by GenAI particularly in terms of deskilling breaches of data privacy and research integrity bias social justice ecological sustainability and loss of meaning of the teaching profession.

Handbook of Granular Computing Witold Pedrycz,Andrzej Skowron,Vladik Kreinovich,2008-07-31 Although the notion is a relatively recent one the notions and principles of Granular Computing GrC have appeared in a different guise in many related fields including granularity in Artificial Intelligence interval computing cluster analysis quotient space theory and many others. Recent years have witnessed a renewed and expanding interest in the topic as it begins to play a key role in bioinformatics e-commerce machine learning security data mining and wireless mobile computing when it comes to the issues of effectiveness robustness and uncertainty. The Handbook of Granular Computing offers a comprehensive reference source for the granular computing community edited by and with contributions from leading experts in the field. Includes chapters covering the foundations of granular computing interval analysis and fuzzy set theory hybrid methods and models of granular computing and applications and case studies. Divided into 5 sections Preliminaries Fundamentals Methodology and Algorithms Development of Hybrid Models and Applications and Case Studies. Presents the flow of ideas in a systematic well organized manner starting with the concepts and motivation and proceeding to detailed design that materializes in specific algorithms applications and case studies. Provides the reader with a self contained reference that includes all pre requisite knowledge augmented with step by step explanations of more advanced concepts. The Handbook of Granular Computing represents a significant and valuable contribution to the literature and will appeal to a broad audience including researchers students and practitioners in the fields of Computational Intelligence pattern recognition fuzzy sets and neural networks system modelling operations research and bioinformatics.

Perspectives on Ontology Learning J. Lehmann,J. Völker,2014-04-03 Perspectives

on Ontology Learning brings together researchers and practitioners from different communities natural language processing machine learning and the semantic web in order to give an interdisciplinary overview of recent advances in ontology learning Starting with a comprehensive introduction to the theoretical foundations of ontology learning methods the edited volume presents the state of the start in automated knowledge acquisition and maintenance It outlines future challenges in this area with a special focus on technologies suitable for pushing the boundaries beyond the creation of simple taxonomical structures as well as on problems specifically related to knowledge modeling and representation using the Web Ontology Language Perspectives on Ontology Learning is designed for researchers in the field of semantic technologies and developers of knowledge based applications It covers various aspects of ontology learning including ontology quality user interaction scalability knowledge acquisition from heterogeneous sources as well as the integration with ontology engineering methodologies

Health Informatics: A Computational Perspective in Healthcare Ripon Patgiri,Anupam Biswas,Pinki

Roy,2021-01-30 This book presents innovative research works to demonstrate the potential and the advancements of computing approaches to utilize healthcare centric and medical datasets in solving complex healthcare problems Computing technique is one of the key technologies that are being currently used to perform medical diagnostics in the healthcare domain thanks to the abundance of medical data being generated and collected Nowadays medical data is available in many different forms like MRI images CT scan images EHR data test reports histopathological data and doctor patient conversation data This opens up huge opportunities for the application of computing techniques to derive data driven models that can be of very high utility in terms of providing effective treatment to patients Moreover machine learning algorithms can uncover hidden patterns and relationships present in medical datasets which are too complex to uncover if a data driven approach is not taken With the help of computing systems today it is possible for researchers to predict an accurate medical diagnosis for new patients using models built from previous patient data Apart from automatic diagnostic tasks computing techniques have also been applied in the process of drug discovery by which a lot of time and money can be saved Utilization of genomic data using various computing techniques is another emerging area which may in fact be the key to fulfilling the dream of personalized medications Medical prognostics is another area in which machine learning has shown great promise recently where automatic prognostic models are being built that can predict the progress of the disease as well as can suggest the potential treatment paths to get ahead of the disease progression

Applications of Machine Learning Prashant

Johri,Jitendra Kumar Verma,Sudip Paul,2020-05-04 This book covers applications of machine learning in artificial intelligence The specific topics covered include human language heterogeneous and streaming data unmanned systems neural information processing marketing and the social sciences bioinformatics and robotics etc It also provides a broad range of techniques that can be successfully applied and adopted in different areas Accordingly the book offers an interesting and insightful read for scholars in the areas of computer vision speech recognition healthcare business marketing and

bioinformatics [Applying Machine Learning Techniques to Bioinformatics: Few-Shot and Zero-Shot Methods](#) Lilhore, Umesh Kumar,Kumar, Abhishek,Simaiya, Sarita,Vyas, Narayan,Dutt, Vishal,2024-03-22 Why are cutting edge data science techniques such as bioinformatics few shot learning and zero shot learning underutilized in the world of biological sciences In a rapidly advancing field the failure to harness the full potential of these disciplines limits scientists ability to unlock critical insights into biological systems personalized medicine and biomarker identification This untapped potential hinders progress and limits our capacity to tackle complex biological challenges The solution to this issue lies within the pages of Applying Machine Learning Techniques to Bioinformatics This book serves as a powerful resource offering a comprehensive analysis of how these emerging disciplines can be effectively applied to the realm of biological research By addressing these challenges and providing in depth case studies and practical implementations the book equips researchers scientists and curious minds with the knowledge and techniques needed to navigate the ever changing landscape of bioinformatics and machine learning within the biological sciences [Robotics and Automation in Industry 4.0](#) Nidhi Sindhwani,Rohit Anand,A. George,Digvijay Pandey,2024-02-09 The book presents the innovative aspects of smart industries and intelligent technologies involving Robotics and Automation It discusses the challenges in the design of autonomous robots and provides an understanding of how different systems communicate with each other allowing cooperation with other human systems and operators in real time Robotics and Automation in Industry 4.0 Smart Industries and Intelligent Technologies offers research articles flow charts algorithms and examples based on daily life in automation and robotics related to the building of Industry 4.0 It presents disruptive technology applications related to Smart Industries and talks about how robotics is an important Industry 4.0 technology that offers a wide range of capabilities and has improved automation systems by doing repetitive tasks with more accuracy and at a lower cost The book discusses how frontline healthcare staff can evaluate monitor and treat patients from a safe distance by using robotic and telerobotic systems to minimize the risk of infectious disease transmission Artificial intelligence AI and machine learning ML are looked at and the book offers a comprehensive overview of the key challenges surrounding the Internet of Things IoT and AI synergy including current and future applications with significant societal value An ideal read for scientists research scholars entrepreneurs industrialists academicians and various other professionals who are interested in exploring innovations in the applicational areas of AI IoT and ML related to Robotics and Automation [Mathematical Reviews](#) ,2001 [数学评论](#) (Japan),1900 [Progress in Artificial Intelligence](#) ,2001 [American Book Publishing Record](#) ,2003 [Subject Guide to Books in Print](#) ,2001 [ACM Transactions on Computational Logic](#) ,2010 [Encyclopedia of Artificial Intelligence](#) Stuart C. Shapiro,1990 [The British National Bibliography](#) Arthur James Wells,2006 [Genetic and Evolutionary Computation Conference](#) ,2005 [Proceedings of the Thirteenth ACM Conference on Hypertext and Hypermedia](#) HT02: ACM Conference on Hypertext and Hypermedia,2002 [GECCO 2005](#) Hans-Georg Beyer,2005 [Whitaker's Books in Print](#)

,1998 *Computer Algebra and Theorem Proving* Clemens Ballarin,1999 Abstract Is the use of computer algebra technology beneficial for mechanised reasoning in and about mathematical domains Usually it is assumed that it is Many works in this area however either have little reasoning content or use symbolic computation only to simplify expressions In work that has achieved more the used methods do not scale up They trust the computer algebra system either too much or too little Computer algebra systems are not as rigorous as many provers They are not logically sound reasoning systems but collections of algorithms We classify soundness problems that occur in computer algebra systems While many algorithms and their implementations are perfectly trustworthy the semantics of symbols is often unclear and leads to errors On the other hand more robust approaches to interface external reasoners to provers are not always practical because the mathematical depth of proofs algorithms in computer algebra are based on can be enormous Our own approach takes both trustworthiness of the overall system and efficiency into account It relies on using only reliable parts of a computer algebra system which can be achieved by choosing a suitable library and deriving specifications for these algorithms from their literature We design and implement an interface between the prover Isabelle and the computer algebra library Sumit sic and use it to prove non trivial theorems from coding theory This is based on the mechanisation of the algebraic theories of rings and polynomials Coding theory is an area where proofs do have a substantial amount of computational content Also it is realistic to assume that the verification of an encoding or decoding device could be undertaken in and indeed be simplified by such a system The reason why semantics of symbols is often unclear in current computer algebra systems is not mathematical difficulty but the design of those systems For Gaussian elimination we show how the soundness problem can be fixed by a small extension and without losing efficiency This is a prerequisite for the efficient use of the algorithm in a prover

Whispering the Strategies of Language: An Emotional Journey through **Artificial Intelligence An International Perspective Lecture Notes In Computer Science**

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