

Improved Ter Search Algorithm For Predicting Protein Structures All Atoms Model

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~~Improved Ter Search Algorithm For~~

Zillow's Stan Humphries discusses how the company uses AI such as computer vision and NLP to change how people sell houses at Transform 2021.

~~Zillow utilizes explainer AI, data, to revolutionize how people sell houses~~

Google said Thursday that it's changing the algorithms that ... president who leads search quality teams, said in a statement. "Our ability to address issues has improved with better technology ...

~~Google updates search algorithms to combat online slander~~

When there is a gas leak in a large building or at an industrial site, human firefighters currently need to go in with gas sensing instruments. Finding the gas leak may take considerable time, while ...

~~Swarm of autonomous tiny drones can localize gas leaks~~

Opinion: The opportunity is thus to re-frame people's perceptions in a positive way, and in doing so create happiness ...

~~Tech News: How algorithms attempt to control the way we view our world~~

By Kaustov Kashyap Technology-driven automation is omnipresent and pervading our lives like never before. From robots and chatbots to virtual/augmented reality, machine learning, artificial ...

~~Technology & automation — Impact on human evolution~~

Microsoft took the wraps off Windows 11, also known as Sun Valley internally, with a new look for desktop and native apps. In addition to the fancy new interface, another major announcement made was ...

~~Microsoft: Windows 11's app store quality will be greatly improved~~

Quantum computers are beginning to emerge in many industry and research labs. But what are qubits? And are the challenges ahead to control the quantum properties ...

~~What is Quantum Computing?~~

Artificial Intelligence (AI) is transforming marketing. Here we look at the different ways companies of any size, and with any budget, can make use of this technology to improve marketing performance.

~~Five Smart Marketing Use Cases For Artificial Intelligence~~

The resulting 15 are solving key industry problems in 2021 and include Chalice Custom Algorithms, which help advertisers escape ... said that readers and followers will love the improved creative ...

~~15 of the most promising digital advertising and media startups of 2021, according to top VCs and insiders~~

Researchers from the University of Copenhagen have improved upon an existing algorithm for reducing the resource consumption of global computer servers. With the rise in internet usage, computer ...

~~Researchers striving to make computer servers more climate friendly~~

The introduction of 8 and 16 channel Wisenet X Series NVRs makes it cost-effective, for even small businesses to take advantage of the licence-free Deep

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Learning AI video analytics, built into ...

~~Hanwha Techwin unveils new 8 and 16 channel Wisenet X Series NVRs with Deep Learning AI video analytics~~

Any smart marketer understands how important Instagram has become today. There are a variety of people who are using this app on a constant basis to view various content, and avail services that were ...

~~17 Best Sites to Buy Instagram Views (Real & Instant)~~

governments need to know which individuals are most at-risk—a role that the authors say can be ably fulfilled by machine learning algorithms. The researchers add that these improved predictions ...

~~Algorithms 22% more accurate at predicting welfare dependency~~

Health care systems and providers must do all they can to properly inform patients of the benefits and risks of enrolling in data sharing.

~~Medical data sharing should be welcomed as long as privacy is protected | Opinion~~

PRNewswire/ -- (NYSE: YEXT), the AI Search Company, and Fazoli's, a leading Italian restaurant chain, today announced their joint work to advance Fazoli's ...

~~Fazoli's Grows Online Sales by 3.6x with Yext-powered Digital Transformation~~

NVIDIA today officially launched Cambridge-1, the United Kingdom's most powerful supercomputer, which will enable top scientists ...

~~NVIDIA Launches UK's Most Powerful Supercomputer, for Research in AI and Healthcare~~

NVIDIA today launched Cambridge-1, calling it the United Kingdom's most powerful supercomputer. Enabling scientists and healthcare experts to use the combination of AI and simulation to accelerate the ...

~~NVIDIA Claims Install of UK's Top Supercomputer, for Research in AI and Healthcare~~

SmugMug has announced a new RAW storage solution, SmugMug Source. The platform allows you to manage uploaded RAW photo assets with the help of AI-driven search tools while continuing to offer access ...

The 2016 International Conference on Energy Science and Applied Technology (ESAT 2016) held on June 25-26 in Wuhan, China aimed to provide a platform for researchers, engineers, and academicians, as well as industrial professionals, to present their research results and development activities in energy science and engineering and its applied technology. The themes presented in Energy Science and Applied Technology ESAT 2016 are: Technologies in Geology, Mining, Oil and Gas; Renewable Energy, Bio-Energy and Cell Technologies; Energy Transfer and Conversion, Materials and Chemical Technologies; Environmental Engineering and Sustainable Development; Electrical and Electronic Technology, Power System Engineering; Mechanical, Manufacturing, Process Engineering; Control and Automation; Communications and Applied Information Technologies; Applied and Computational Mathematics; Methods and Algorithms Optimization; Network Technology and Application; System Test, Diagnosis, Detection and Monitoring; Recognition, Video and Image Processing.

Nature-Inspired Algorithms have been gaining much popularity in recent years due to the fact that many real-world optimisation problems have become increasingly large, complex and dynamic. The size and complexity of the problems nowadays require the development of methods and solutions whose efficiency is measured by their ability to find acceptable results within a reasonable amount of time, rather than an ability to guarantee the optimal solution. This volume 'Nature-Inspired Algorithms for Optimisation' is a collection of the latest state-of-the-art algorithms and important studies for tackling various kinds of optimisation problems. It comprises 18 chapters, including two introductory chapters which address the fundamental issues that have made optimisation problems difficult to solve and explain the rationale for seeking inspiration from nature. The contributions stand out through their novelty and clarity of the algorithmic descriptions and analyses, and lead the way to interesting and varied new applications.

The revised and updated new edition of the popular optimization book for engineers The thoroughly revised and updated fifth edition of Engineering Optimization: Theory and Practice offers engineers a guide to the important optimization methods that are commonly used in a wide range of industries. The author—a noted expert on the topic—presents both the classical and most recent optimizations approaches. The book introduces the basic methods and

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includes information on more advanced principles and applications. The fifth edition presents four new chapters: Solution of Optimization Problems Using MATLAB; Metaheuristic Optimization Methods; Multi-Objective Optimization Methods; and Practical Implementation of Optimization. All of the book's topics are designed to be self-contained units with the concepts described in detail with derivations presented. The author puts the emphasis on computational aspects of optimization and includes design examples and problems representing different areas of engineering. Comprehensive in scope, the book contains solved examples, review questions and problems. This important book: Offers an updated edition of the classic work on optimization Includes approaches that are appropriate for all branches of engineering Contains numerous practical design and engineering examples Offers more than 140 illustrative examples, 500 plus references in the literature of engineering optimization, and more than 500 review questions and answers Demonstrates the use of MATLAB for solving different types of optimization problems using different techniques Written for students across all engineering disciplines, the revised edition of Engineering Optimization: Theory and Practice is the comprehensive book that covers the new and recent methods of optimization and reviews the principles and applications.

A rigorous yet accessible graduate textbook covering both fundamental and advanced optimization theory and algorithms.

This book constitutes the refereed proceedings of the 11th European PVM/MPI users' Group Meeting held in Budapest, Hungary, in September 2004. The 50 revised papers presented together with abstracts of 10 invited contributions were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on MPI/PVM extensions and improvements, algorithms, applications, tools and environments, cluster and grid computing, performance, and parallel numerical simulation.

Dynamically Reconfigurable Systems is the first ever to focus on the emerging field of Dynamically Reconfigurable Computing Systems. While programmable logic and design-time configurability are well elaborated and covered by various texts, this book presents a unique overview over the state of the art and recent results for dynamic and run-time reconfigurable computing systems. Reconfigurable hardware is not only of utmost importance for large manufacturers and vendors of microelectronic devices and systems, but also a very attractive technology for smaller and medium-sized companies. Hence, Dynamically Reconfigurable Systems also addresses researchers and engineers actively working in the field and provides them with information on the newest developments and trends in dynamic and run-time reconfigurable systems.

This book constitutes the refereed proceedings of the 19th International Conference on Information Processing in Medical Imaging, IPMI 2005, held in Glenwood Springs, Colorado, in July 2005. The 63 revised full papers presented were carefully reviewed and selected from 245 submissions. The papers are organized in topical sections on shape and population modeling, diffusion tensor imaging and functional magnetic resonance, segmentation and filtering, small animal imaging, surfaces and segmentation, applications, image registration, registration and segmentation.

The satisfiability (SAT) problem is central in mathematical logic, computing theory, and many industrial applications. There has been a strong relationship between the theory, the algorithms, and the applications of the SAT problem. This book aims to bring together work by the best theorists, algorithmists, and practitioners working on the sat problem and on industrial applications, as well as to enhance the interaction between the three research groups. The book features the applications of theoretical/algorithmic results to practical problems and presents practical examples for theoretical/algorithmic study. Major topics covered in the book include practical and industrial SAT problems and benchmarks, significant case studies and applications of the SAT problem and SAT algorithms, new algorithms and improved techniques for satisfiability testing, specific data structures and implementation details of the SAT algorithms, and the theoretical study of the SAT problem and SAT algorithms.

This book constitutes the refereed proceedings of the 22nd International Conference on Applications of Natural Language to Information Systems, NLDB 2017, held in Liège, Belgium, in June 2017. The 22 full papers, 19 short papers, and 16 poster papers presented were carefully reviewed and selected from 125 submissions. The papers are organized in the following topical sections: feature engineering; information extraction; information extraction from resource-scarce languages; natural language processing applications; neural language models and applications; opinion mining and sentiment analysis; question answering systems and applications; semantics-based models and applications; and text summarization.

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