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Jeppe Thagaard has developed a mathematical model for use in automated image analysis of tissue samples. The model provides the possibility for better and more similar cancer prognosis and treatment.

Algorithm can detect biomarker in aggressive breast cancer

Citadel Defense has secured \$4M in new government contracts in June as demand for combat-proven counter drone solutions accelerates. Rapid proliferation of small, low-cost drones threatens personnel ...

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### Citadel Defense Secures \$4M Contract for AI Counter Drone Solution

Viz.ai, the world leader in AI-driven intelligent care coordination, has partnered with Avicenna.AI, a global leader in artificial intelligence solutions, to enable intelligent care coordination and ...

Viz.ai and Avicenna.AI Partner to Launch World-class AI-Driven Intelligent Care Coordination for Pulmonary Embolism and Aortic Disease  
Cybereason Inc., the maker of a threat detection and response platform that it says enables one cybersecurity professional to protect 200,000 endpoints, has raised \$275 million in new late-stage ...

### Cybereason secures \$275M in late-stage funding for its breach prevention platform

Today, Google algorithms penalize websites for using such methods to ... When they land on your page, they want to find a solution, and they want to find it fast. Optimize your website so that ...

### 7 SEO-Powered Ways to Run an Effective Affiliate Marketing Program

SensiML™ Corporation, a leading developer of AI tools for building intelligent Internet of Things (IoT) endpoints, today announced it has signed a worldwide distribution agreement with Digi-Key ...

### SensiML Announces Global Distribution Agreement with Digi-Key Electronics

Similarly, manual visual inspection of railway track fasteners ... and improve through experience without being programmed to do so, such as through various algorithms and neural networks. Another ...

### Edge computing for industrial AIoT applications

Technology like visual AI, which we use in our automated testing solution ... methodologies, AI algorithms will think for themselves and create and run tests without any manual user intervention.

### Autonomous Software Testing: The Next Peak To Conquer

New AI algorithms are being continuously developed to improve functions ... The ideal approach is to achieve the maximum possible benefit from automation through reducing manual efforts by embedding ...

### Enterprises now “ AI-ify ” everything to augment human capabilities: Sachin Vyas, LTI

Booz Allen Hamilton Booz Allen Hamilton will display multiple AI-powered solutions the company has implemented for ... Entrupy ' s software uses machine-learning algorithms to predict whether an imaged ...

### Artificial Intelligence: Intellectual Property Policy Considerations

Accenture's Intelligent Cash is powered by SAP and consists of a dashboard showing real-time cash positions globally; a predictive

forecasting tool powered by sophisticated algorithms; and a cash ...

How Accenture Created An Intelligent Cash Treasury Solution

The Environment + Energy Leader Awards recognize excellence in products and services that provide companies with energy, environmental and sustainability benefits through innovati ...

ehsAI Earns 2021 Top Product of the Year from Environment + Energy Leader

AI platforms use algorithms and machine learning to process ... about any property they are interested in. This lowers manual office work and saves a significant amount of time and energy spent ...

PropTech trends: How technology is disrupting the real estate sector

While artificial intelligence systems such as the mobile app CBP One, which was deployed by border officials at the U.S.-Mexico border to reduce manual ... down on harmful algorithms, encourages ...

Artificial Intelligence in Law Enforcement Raises Bias and Privacy Concerns

VANCOUVER, CANADA, July 14, 2021 (GLOBE NEWSWIRE) -- ehsAI, a global provider of compliance automation SaaS technology powered by artificial intelligence (AI) and machine learning algorithms ...

ehsAI Earns 2021 Top Product of the Year from Environment + Energy Leader

This value-priced tier of service empowers small and mid-tier innovators with an extremely affordable alternative to costly manual coding methods for devising, optimizing, and testing signal ...

This text, extensively class-tested over a decade at UC Berkeley and UC San Diego, explains the fundamentals of algorithms in a story line that makes the material enjoyable and easy to digest. Emphasis is placed on understanding the crisp mathematical idea behind each algorithm, in a manner that is intuitive and rigorous without being unduly formal. Features include: The use of boxes to strengthen the narrative: pieces that provide historical context, descriptions of how the algorithms are used in practice, and excursions for the mathematically sophisticated. Carefully chosen advanced topics that can be skipped in a standard one-semester course, but can be covered in an advanced algorithms course or in a more leisurely two-semester sequence. An accessible treatment of linear programming introduces students to one of the greatest achievements in algorithms. An optional chapter on the quantum algorithm for factoring provides a unique peephole into this exciting topic. In addition to the text, DasGupta also offers a Solutions Manual, which is available on

the Online Learning Center. "Algorithms is an outstanding undergraduate text, equally informed by the historical roots and contemporary applications of its subject. Like a captivating novel, it is a joy to read." Tim Roughgarden Stanford University

Covering the basic techniques used in the latest research work, the author consolidates progress made so far, including some very recent and promising results, and conveys the beauty and excitement of work in the field. He gives clear, lucid explanations of key results and ideas, with intuitive proofs, and provides critical examples and numerous illustrations to help elucidate the algorithms. Many of the results presented have been simplified and new insights provided. Of interest to theoretical computer scientists, operations researchers, and discrete mathematicians.

Essential Information about Algorithms and Data Structures A Classic Reference The latest version of Sedgewick, s best-selling series, reflecting an indispensable body of knowledge developed over the past several decades. Broad Coverage Full treatment of data structures and algorithms for sorting, searching, graph processing, and string processing, including fifty algorithms every programmer should know. See

Bringing together the classic and the contemporary aspects of the field, this comprehensive introduction to network flows provides an integrative view of theory, algorithms, and applications. It offers in-depth and self-contained treatments of shortest path, maximum flow, and minimum cost flow problems, including a description of new and novel polynomial-time algorithms for these core models. For professionals working with network flows, optimization, and network programming.

Discrete optimization problems are everywhere, from traditional operations research planning (scheduling, facility location and network design); to computer science databases; to advertising issues in viral marketing. Yet most such problems are NP-hard; unless  $P = NP$ , there are no efficient algorithms to find optimal solutions. This book shows how to design approximation algorithms: efficient algorithms that find provably near-optimal solutions. The book is organized around central algorithmic techniques for designing approximation algorithms, including greedy and local search algorithms, dynamic programming, linear and semidefinite programming, and randomization. Each chapter in the first section is devoted to a single algorithmic technique applied to several different problems, with more sophisticated treatment in the second section. The book also covers methods for proving that optimization problems are hard to approximate. Designed as a textbook for graduate-level algorithm courses, it will also serve as a reference for researchers interested in the heuristic solution of discrete optimization problems.

Computer science and economics have engaged in a lively interaction over the past fifteen years, resulting in the new field of algorithmic game theory. Many problems that are central to modern computer science, ranging from resource allocation in large networks to online advertising, involve interactions between multiple self-interested parties. Economics and game theory offer a host of useful models and definitions to reason about such problems. The flow of ideas also travels in the other direction, and concepts from computer science are increasingly important in economics. This book grew out of the author's Stanford University course on algorithmic game theory, and aims

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to give students and other newcomers a quick and accessible introduction to many of the most important concepts in the field. The book also includes case studies on online advertising, wireless spectrum auctions, kidney exchange, and network management.

Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

Artificial Intelligence: A Modern Approach offers the most comprehensive, up-to-date introduction to the theory and practice of artificial intelligence. Number one in its field, this textbook is ideal for one or two-semester, undergraduate or graduate-level courses in Artificial Intelligence.

This comprehensive textbook presents a clean and coherent account of most fundamental tools and techniques in Parameterized Algorithms and is a self-contained guide to the area. The book covers many of the recent developments of the field, including application of important separators, branching based on linear programming, Cut & Count to obtain faster algorithms on tree decompositions, algorithms based on representative families of matroids, and use of the Strong Exponential Time Hypothesis. A number of older results are revisited and explained in a modern and didactic way. The book provides a toolbox of algorithmic techniques. Part I is an overview of basic techniques, each chapter discussing a certain algorithmic paradigm. The material covered in this part can be used for an introductory course on fixed-parameter tractability. Part II discusses more advanced and specialized algorithmic ideas, bringing the reader to the cutting edge of current research. Part III presents complexity results and lower bounds, giving negative evidence by way of  $W[1]$ -hardness, the Exponential Time Hypothesis, and kernelization lower bounds. All the results and concepts are introduced at a level accessible to graduate students and advanced undergraduate students. Every chapter is accompanied by exercises, many with hints, while the bibliographic notes point to original publications and related work.

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