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the inefficiency in widely
used allreduce algorithms,
and the opportunity of

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algorithm-architecture co-
design. We propose MULTITREE
all-reduce algorithm with
topology and ...

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Architecture Co-Design for
Distributed Deep Learning*

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Searching from Above for
Solutions. The evolution of
drones from technological
curiosity to backyard toy to
weaponized spy tool now has
inspired a more basic
research question: Wh ...

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from Above for Drone
Solutions; Droning on*

A recommendation email will
be sent to the
administrator(s) of the
selected organisation(s)
There are no silver bullets

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in algorithm design, and no
single algorithmic ... the
rapid advances in Big ...

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artificial intelligence

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Commentary: To get the most out of machine learning, it pays to avoid overthinking AI. Find out how Google engineers' were able to make

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a ML process take less than
six hours instead of weeks.

*How Google used machine
learning to dramatically
improve chip design*

Using this approach, the
team didn't just find a

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single chip design solution.
Their AI agent was able to
adapt and generalize,
needing just six extra hours
of computation to identify
optimized ...

A Google AI Designed a

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*Computer Chip as Well as a
Human Engineer—But Much
Faster*

Infineon, pmd, and ArcSoft
are jointly developing a
turnkey solution that allows
Time-of-Flight cameras to
work from under the display

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*Infineon and pmdtechnologies
partner with ArcSoft for
under-display Time-of-Flight
turnkey solution*

Researchers at the Image
Processing Laboratory (IPL)

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of the University of
Valencia, in collaboration
with the University of
Oxford and the Phi-Lab of
the European Space Agency
(ESA), have developed a ...

Researchers design a system

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*for detecting floods from
space using artificial
intelligence*

The semiconductor industry
is rare in that most chip
design companies effectively
... Having relied on complex
non-linear algorithm

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solutions to assist
designers to date, the
computational ...

*Using AI to Build Better
Processors: Google Was Just
the Start, Says Synopsys
Venus Acquisition*

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Corporation (NASDAQ:VENA)
("Venus"), a publicly traded
special purpose acquisition
company, and VIYI ...

*The combination of Venus
Acquisition Corporation and
Viyi Algorithm Inc. will*

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*increase its revenue by
176.8% in 2020*

Evolution, the integrated fire and security systems business, has bolstered its design capabilities within its Risk & Design team with the appointment of two new

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CAD ...

*Evolution makes the
appointment of two new CAD
Technicians to expand their
risk and design team*

At the moment, anyone can
design an algorithm and use

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... power of predictions to change the future? One solution is to subject predictive algorithms to randomized controlled trials.

We Should Test AI the Way

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the FDA Tests Medicines

VIYI Algo provides comprehensive solutions to customers by integrating central processing algorithms with software or hardware, or both, thereby helping them to increase the

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number of customers ...

WiMi Hologram Cloud Inc.

Announces Merger of VIYI

Algorithm Inc. and Venus

Acquisition Corporation

Cyberint has launched the

next-generation Digital Risk

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Protection platform, Argos Edge, a fully SaaS-based solution, to provide real-time responses to cyber threats coming from beyond the ...

Argos Edge offers first

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*fully comprehensive one-stop
DRP solution*

AES encryption, while still an important part of security solutions, isn't an asymmetric encryption algorithm and can't be used to implement PKI solutions.

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Fortunately, researchers are getting ...

*How to Protect Your Digital
Systems from the Quantum
Apocalypse*

Accumulate, accumulate! That
is Moses and the prophets!...

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Accumulation for the sake of
accumulation, production for
the sake of production: this
was the historical mission
of the bourgeoisie in the
...

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This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Algorithm Design introduces algorithms by

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looking at the real-world problems that motivate them. The book teaches students a range of design and analysis techniques for problems that arise in computing applications. The text encourages an understanding

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of the algorithm design process and an appreciation of the role of algorithms in the broader field of computer science. August 6, 2009 Author, Jon Kleinberg, was recently cited in the New York Times for his

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statistical analysis
research in the Internet
age.

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Kleinberg, was recently
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for his statistical analysis

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research in the Internet age. Algorithm Design introduces algorithms by looking at the real-world problems that motivate them. The book teaches students a range of design and analysis techniques for problems that

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arise in computing applications. The text encourages an understanding of the algorithm design process and an appreciation of the role of algorithms in the broader field of computer science.

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This newly expanded and updated second edition of the best-selling classic continues to take the "mystery" out of designing

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algorithms, and analyzing their efficacy and efficiency. Expanding on the first edition, the book now serves as the primary textbook of choice for algorithm design courses while maintaining its status

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as the premier practical
reference guide to
algorithms for programmers,
researchers, and students.
The reader-friendly
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access to combinatorial

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algorithms technology,
stressing design over
analysis. The first part,
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methods for designing and
analyzing computer
algorithms. The second part,

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identifying the 75
algorithmic problems that
arise most often in
practice, leading the reader
down the right path to solve
them • Includes several NEW
"war stories" relating
experiences from real-world

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applications • Provides up-to-date links leading to the very best algorithm implementations available in C, C++, and Java

Over the course of a generation, algorithms have

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gone from mathematical
abstractions to powerful
mediators of daily life.
Algorithms have made our
lives more efficient, more
entertaining, and,
sometimes, better informed.
At the same time, complex

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algorithms are increasingly violating the basic rights of individual citizens.

Allegedly anonymized datasets routinely leak our most sensitive personal information; statistical models for everything from

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mortgages to college admissions reflect racial and gender bias. Meanwhile, users manipulate algorithms to "game" search engines, spam filters, online reviewing services, and navigation apps.

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Understanding and improving the science behind the algorithms that run our lives is rapidly becoming one of the most pressing issues of this century. Traditional fixes, such as laws, regulations and

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watchdog groups, have proven woefully inadequate.

Reporting from the cutting edge of scientific research, The Ethical Algorithm offers a new approach: a set of principled solutions based on the emerging and exciting

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science of socially aware
algorithm design. Michael
Kearns and Aaron Roth
explain how we can better
embed human principles into
machine code - without
halting the advance of data-
driven scientific

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exploration. Weaving together innovative research with stories of citizens, scientists, and activists on the front lines, *The Ethical Algorithm* offers a compelling vision for a future, one in which we can

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chapter on genetic algorithms Use of C++ and Java pseudocode to help students better understand complex algorithms No calculus background required Numerous clear and student-friendly examples throughout

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Presenting a complementary perspective to standard books on algorithms, *A Guide to Algorithm Design: Paradigms, Methods, and Complexity Analysis* provides a roadmap for readers to

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algorithmic problems.
Divided into three parts,
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problems with solutions as
well as in-depth case
studies that demonstrate how
to assess the complexity of

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a new problem. Part I helps readers understand the main design principles and design efficient algorithms. Part II covers polynomial reductions from NP-complete problems and approaches that go beyond NP-completeness.

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Part III supplies readers with tools and techniques to evaluate problem complexity, including how to determine which instances are polynomial and which are NP-hard. Drawing on the authors' classroom-tested

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material, this text takes readers step by step through the concepts and methods for analyzing algorithmic complexity. Through many problems and detailed examples, readers can investigate polynomial-time

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algorithms and NP-
completeness and beyond.

There are many distinct
pleasures associated with
computer programming.

Craftsmanship has its quiet
rewards, the satisfaction

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that comes from building a useful object and making it work. Excitement arrives with the flash of insight that cracks a previously intractable problem. The spiritual quest for elegance can turn the hacker into an

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artist. There are pleasures in parsimony, in squeezing the last drop of performance out of clever algorithms and tight coding. The games, puzzles, and challenges of problems from international programming competitions are

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a great way to experience these pleasures while improving your algorithmic and coding skills. This book contains over 100 problems that have appeared in previous programming contests, along with

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discussions of the theory and ideas necessary to attack them. Instant online grading for all of these problems is available from two WWW robot judging sites. Combining this book with a judge gives an exciting new

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way to challenge and improve
your programming skills.

This book can be used for
self-study, for teaching
innovative courses in
algorithms and programming,
and in training for
international competition.

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The problems in this book have been selected from over 1,000 programming problems at the Universidad de Valladolid online judge. The judge has ruled on well over one million submissions from 27,000 registered users

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around the world to date. We have taken only the best of the best, the most fun, exciting, and interesting problems available.

The text covers important algorithm design techniques,

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such as greedy algorithms,
dynamic programming, and
divide-and-conquer, and
gives applications to
contemporary problems.
Techniques including Fast
Fourier transform, KMP
algorithm for string

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matching, CYK algorithm for context free parsing and gradient descent for convex function minimization are discussed in detail. The book's emphasis is on computational models and their effect on algorithm

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design. It gives insights into algorithm design techniques in parallel, streaming and memory hierarchy computational models. The book also emphasizes the role of randomization in algorithm

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design, and gives numerous applications ranging from data-structures such as skip-lists to dimensionality reduction methods.

Creating robust software requires the use of

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efficient algorithms, but programmers seldom think about them until a problem occurs. Algorithms in a Nutshell describes a large number of existing algorithms for solving a variety of problems, and

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helps you select and implement the right algorithm for your needs -- with just enough math to let you understand and analyze algorithm performance. With its focus on application, rather than theory, this

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