

Efficient Algorithm For Divisibility Discovery On Recursive Sequences

Scientific and Technical Aerospace Reports 1988

Enumerability, Decidability, Computability Hans Hermes 1965 The task of developing algorithms to solve problems has always been considered by mathematicians to be an especially interesting and important one. Normally an algorithm is applicable only to a narrowly limited group of problems. Such is for instance the Euclidean algorithm, which determines the greatest common divisor of two numbers, or the well-known procedure which is used to obtain the square root of a natural number in decimal notation. The more important these special algorithms are, all the more desirable it seems to have algorithms of a greater range of applicability at one's disposal. Throughout the centuries, attempts to provide algorithms applicable as widely as possible were rather unsuccessful. It was only in the second half of the last century that the first appreciable advance took place. Namely, an important group of the inferences of the logic of predicates was given in the form of a calculus. (Here the Boolean algebra played an essential pioneer role.) One could now perhaps have conjectured that all mathematical problems are solvable by algorithms. However, well-known, yet unsolved problems (problems like the word problem of group theory or Hilbert's tenth problem, which considers the question of solvability of Diophantine equations) were warnings to be careful. Nevertheless, the impulse had been given to search for the essence of algorithms. Leibniz already had inquired into this problem, but without success.

Mathematica® in Action Stan Wagon
2010-06-29 Plenty of examples and case studies utilize Mathematica 7's newest tools, such as dynamic manipulations and adaptive three-dimensional plotting. Emphasizes the breadth of Mathematica and the impressive results of combining techniques from different areas. Whenever possible, the book shows how Mathematica can be used to discover new

things. Striking examples include the design of a road on which a square wheel bike can ride, the design of a drill that can drill square holes, and new and surprising formulas for p . Visualization is emphasized throughout, with finely crafted graphics in each chapter.

Efficient Algorithm for Divisibility Discovery on Recursive Sequences Alina Matyukhina
2014-10-01 Many cryptographic protocols are based on the complexity of prime factorization large integers -for example, the RSA problem. When the numbers are very large, no efficient, non-quantum integer factorization algorithm is known. On other hand we have computational complexity of the Fibonacci sequence and recursive sequences in all, as the members of sequences can reach millions. Can we combine two concepts to investigate the unsolved problem in computer science? This book deals with the theoretical and the computational aspects of the divisibility of recursive sequence elements by primes, which is defined by discriminant of characteristic equation D . Depending on whether D -quadratic residue in the field of residues modulo p , we derived two theorems that helps you specify the elements of this sequence, which is divisible by primes. The algorithm and structural computer program were developed, it doesn't require the additional calculation of the members of the sequences, therefore it reduces time to fulfill the task. These methods were applied to the solution of problems on divisibility. The book presents the generalization of International Mathematical Olympiad tasks.

Algorithms and Recursive Functions Anatoliĭ Ivanovič Mal'cev 1970

Algorithms and Recursive Functions Anatoliĭ Ivanovich Mal'ts'ev 1970

Discrete Mathematics with Applications
Susanna S. Epp 1993

Mathematical Reviews 1997

Government Reports Announcements & Index 1985

Science Citation Index 1993 Vols. for 1964- have guides and journal lists.

Nonmonotonic and Inductive Logic Gerhard Brewka 1993 This proceedings volume contains a selection of revised and extended papers presented at the Second International Workshop on Nonmonotonic and Inductive Logic, NIL '91, which took place at Reinhardtsbrunn Castle, December 2-6, 1991. The volume opens with an extended version of a tutorial on nonmonotonic logic by G. Brewka, J. Dix, and K. Konolige. Fifteen selected papers follow, on a variety of topics. The majority of papers belong either to the area of nonmonotonic reasoning or to the field of inductive inference, but some papers integrate research from both areas. The first workshop in this series was held at the University of Karlsruhe in December 1990 and its proceedings were published as Lecture Notes in Artificial Intelligence Volume 543. The series of workshops was made possible by financial support from Volkswagen Stiftung, Hannover. This workshop was also supported by IBM Deutschland GmbH and Siemens AG.

Algorithms and Recursive Functions Dr. A. I. Mal'cev 1965

Use of Services for Family Planning and Infertility, United States Gerry E. Hendershot 1988

Resources for Preparing Middle School Mathematics Teachers Cheryl Beaver 2013 "Cheryl Beaver, Laurie Burton, Maria Fung, Klay Kruczek, editors"--Cover.

Current Index to Statistics, Applications, Methods and Theory 1995 The Current Index to Statistics (CIS) is a bibliographic index of publications in statistics, probability, and related fields.

Advances in Cryptology 1988

Advances in Cryptology - EUROCRYPT '88

Christoph G. Günther 2007-03-06 The International Association for Cryptologic Research (IACR) organizes international conferences every year, one in Europe and one in the United States. EUROCRYPT'88, held in the beautiful environment of the Swiss mountains in Davos, was the sixth European conference. The number of contributions and of participants at the meeting has increased substantially!.. which is an indication of the high interest in cryptography and system security in general. The interest has not only increased but has also further moved towards authentication.

signatures and other protocols. This is easy to understand in view of the urgent needs for such protocols, in particular in connection with open information systems, and in view of the exciting problems in this area. The equally fascinating classical field of secrecy, i.e. the theory, design and analysis of stream or block ciphers and of public key cryptosystems, was however also well represented and several significant results were communicated. The present proceedings contain all contributions which were accepted for presentation. The chapters correspond to the sessions at the conference.

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