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D. P. Acharjya Song Y. Yan Dr. K. Umamaheswara Rao, Dr. M. Nagapavani, Dr. Divvela Srinivasa Rao, Mr. Anil Kumar Jayant Ramaswamy Mr. A. Durai Ganesh Dana Prescott Bartlett University of Akron Benjamin Vaughan Abbott

this book features high quality papers presented at the international conference on computational intelligence and informatics iccii 2018 which was held on 28 29 december 2018 at the department of computer science and engineering jntuh college of engineering hyderabad india the papers focus on topics such as data mining wireless sensor networks parallel computing image processing network security manets natural language processing and internet of things

covering recent research into unconventional methods of computing for disciplines in computer science mathematics biology physics and philosophy the subjects include nonconventional computational methods dna computation quantum computation and beyong turing computability new methods of discrete computation theoretical and conceptual new computational paradigms practical knowledge on new computing technologies

this highly anticipated revision builds upon the strengths of the previous edition sipser s candid crystal clear style allows students at every level to understand and enjoy this field important notice media content referenced within the product description or the product text may not be available in the ebook version

theory of computation is the scientific discipline concerned with the study of general properties of computation and studies the inherent possibilities and limitations of efficient computation that makes machines more intelligent and enables them to carry out intellectual processes this book deals with all those concepts by developing the standard mathematical models of computational devices and by investigating the cognitive and generative capabilities of such machines the book emphasizes on mathematical reasoning and problem solving techniques that penetrate computer science each chapter gives a clear statement of definition and thoroughly discusses the concepts principles and theorems with illustrative and other descriptive materials

the only book to provide a unified view of the interplay between computational number theory and cryptography computational number theory and modern cryptography are two of the most important and fundamental

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discrete mathematics is the study of mathematical structures that are fundamentally countable or distinct rather than continuous it provides the foundational concepts and tools used in computer science information technology and related fields key topics include logic set theory combinatorics graph theory relations functions and discrete probability discrete mathematics is essential for designing algorithms analyzing computational processes modeling networks and developing cryptography and database systems its principles underpin modern computing and digital system design

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