

Theoretical Aspects of Computer Science



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THEORETICAL ASPECTS OF COMPUTER SCIENCE



Springer. Paperback. Book Condition: New. Paperback. 228 pages. Dimensions: 9.0in. x 6.1in. x 0.6in. The First Summer School on Theoretical Aspects of Computer Science was held at the Institute for Studies in Theoretical Physics and Mathematics (IPM) from July 3-10, 2000. The idea of organizing a summer school was originated during a conversation between the first and the second editor of this volume in the winter of 2000 at IPM in Tehran. The decision was formalized when the third editor visited IPM later in the winter. The main idea behind the Summer School was to introduce to the students in Iran some of the highly innovative and promising research in Theoretical Computer Science, and, at the same time, to start a flow of ideas between top researchers in the field and the Iranian scientists. For this reason, the talks were designed to be of a tutorial style. The organizers decided to concentrate on a few important areas of research in modern Theoretical Computer Science. To attract students to this important area, they also decided to include talks on applications of methods from Theoretical Computer Science to other areas. This volume contains the written contributions to the program of this Summer School. It is intended for students and researchers who want to gain acquaintance with certain topics in Theoretical Computer Science. The papers on quantum computation, approximation algorithms, self-testing correcting, algebraic modeling of data, and the Regularity Lemma correspond to the former category, while connections between multiple access communication and combinatorial designs, graph-theoretical methods in computer vision, and low-density parity-check codes belong to the latter category. Each contribution to this volume was presented in a two-hour session, leaving ample time for questions and discussions. The tutorials were followed by a number of specialized talks touching on current research problems in the area. Parts of the talks have been incorporated into the material of the contributions.

January 2002 G. B. Khosrovshahi A. Shokoufandeh A. Shokrollahi Organization The first International Summer School on Theoretical Aspects of Computer Science was organized by the Institute for Studies in Theoretical Physics and Mathematics (IPM) in Tehran, Iran. Program Committee Conference Chair: G. B. Khosrovshahi, IPM and the University of Tehran, Iran A. Shokoufandeh, Drexel University, USA A. Shokrollahi, Digital Fountain, USA Local Arrangements: M. Zamani Sponsoring Institutions School of Mathematics, Institute for Studies in Theoretical Physics and Mathematics (IPM), Tehran, Iran World Mathematical Year (WMY) 2000 National Commission Service de Coopération et d'Action Culturelle, Ambassade de France en Iran Neda Rayaneh Institute (NRI) <http://www.neda.net.ir> VIII Acknowledgements We are grateful to Professor M. J. Larijani, the director of IPM, who has been a great advocate for the expansion of Theoretical Computer Science at the Institute, and helped us secure major funding from IPM. We would also like to express our thanks to Professor S. Shahshahani, the Deputy Director of IPM, who was most helpful in soliciting financial support from the World Mathematical Year 2000 National Commission. The Service de Coopération et d'Action Culturelle of the French embassy in Iran kindly provided travel funds for our invited speakers from France. We thank the Service Culturelle for their generous support. Finally, we would like to express our gratitude to M. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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