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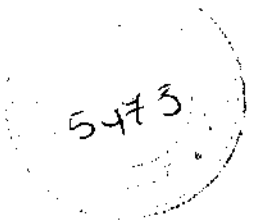

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Preface

The papers in this volume were presented at the SIGAL International Symposium on Algorithms. The workshop took place from August 16 to August 18, 1990, at CSK Information Education Center in Tokyo, Japan. It was organized by the Special Interest Group on Algorithms (SIGAL) of the Information Processing Society of Japan (IPSJ) in cooperation with the Technical Group on Theoretical Foundation of Computing of the Institute of Electronics, Information and Communication Engineers.

SIGAL was organized in IPSJ in 1988 to encourage research in the field of discrete algorithms in Japan and the world, and held 6 to 8 research meetings in each year. This symposium was the first international symposium on algorithms organized by SIGAL, and will be held regularly in future.

In response to the program committee's call for papers, 88 papers were submitted. From these submissions, the program committee selected 34 for presentation at the symposium. In addition to these papers, the symposium included 5 invited talks and 10 invited papers.

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† invited papers

Recent Progress in String Algorithms

Zvi Galil

Columbia University and Tel Aviv University

Abstract

The talk will survey recent results in string algorithms including:

1. approximate string matching
2. parallel string matching
3. dynamic programming speed ups
4. exact complexity of string matching
5. tree pattern matching