

Lecture Notes in Computer Science

- Vol. 1: GI-Gesellschaft für Informatik e.V. 3. Jahrestagung, Hamburg, 8.–10. Oktober 1973. Herausgegeben im Auftrag der Gesellschaft für Informatik von W. Brauer. XI, 508 Seiten. 1973. DM 32,–
 - Vol. 2: GI-Gesellschaft für Informatik e. V. 1. Fachtagung über Automatentheorie und Formale Sprachen, Bonn, 9.–12. Juli 1973. Herausgegeben im Auftrag der Gesellschaft für Informatik von K.-H. Böhling und K. Indermark. VII, 322 Seiten. 1973. DM 26,–
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 - Vol. 10: Computing Methods in Applied Sciences and Engineering, Part 1. International Symposium, Versailles, December 17–21, 1973. Edited by R. Glowinski and J. L. Lions. X, 497 pages. 1974. DM 34,–
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 - Vol. 13: Rechnerstrukturen und Betriebsprogrammierung, Erlangen, 1970. (GI-Gesellschaft für Informatik e. V.) Herausgegeben von W. Händler und P. P. Spies. VII, 333 Seiten. 1974. DM 30,–
 - Vol. 14: Automata, Languages and Programming – 2nd Colloquium, University of Saarbrücken, July 29–August 2, 1974. Edited by J. Loewck. VIII, 611 pages. 1974. DM 48,–
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Lecture Notes in Computer Science

Edited by G. Goos and J. Hartmanis

14

Automata, Languages and Programming

2nd Colloquium, University of Saarbrücken
July 29–August 2, 1974

Edited by Jacques Loeckx



Springer-Verlag Berlin Heidelberg GmbH 1974

Editorial Board: P. Brinch Hansen · D. Gries
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AMS Subject Classifications (1970): 68-02, 68 A 05, 68 A 10, 68 A 20,
68 A 25, 68 A 30, 68 A 40, 68 A 45
CR Subject Classifications (1974): 3.6, 4.1, 4.2, 5.21, 5.22, 5.23,
5.24, 5.25, 5.26, 5.27, 5.29

ISBN 978-3-540-06841-9 ISBN 978-3-662-21545-6 (eBook)
DOI 10.1007/978-3-662-21545-6

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Originally published by Springer-Verlag Berlin · Heidelberg · New York in 1974

Offsetdruck: Julius Beltz, Hemsbach/Bergstr.

PREFACE

The Second Colloquium on Automata, Languages and Programming is the successor of a similar Colloquium organized by IRIA in Paris, July 3-7, 1972. The present Colloquium which takes place at the University of Saarbrücken from July 29th to August 2nd, 1974, is sponsored by the Gesellschaft für Informatik and organized in cooperation with the Special Interest Group on Automata and Computability Theory (SIGACT) and with the European Association for Theoretical Computer Science (EATCS).

As its predecessor the present Colloquium is devoted to the theoretical bases of computer science. This volume contains the text of the different lectures of the Colloquium which have been selected by the Program Committee out of about 130 submitted papers. About one third of the papers of this volume is concerned with formal language theory, one other third with the theory of computation and the rest with complexity theory, automata theory, programming languages, etc.

Thanks are due to the Bundesministerium für Forschung und Technologie, to the Gesellschaft für Informatik and to the Universität des Saarlandes, whose material support made this Colloquium possible. The moral support of the Special Interest Group on Automata and Computability Theory and of the European Association for Theoretical Computer Science is herewith gratefully acknowledged. A particular mention is due for the work of the Program Committee, which consisted of C.Boehm, W.Brauer, E.Engeler, P.C.Fischer, S.Ginsburg, J.Hartmanis, G.Hotz, J.Loeckx, M.Nivat, D.Park, Z.Pawlak, M.Rabin, A.Salomaa, M.Schützenberger and A.van Wijngaarden. Finally, a word of thanks goes to all those members of this university and in particular to Mrs. C.Pagel, who cared for the organizational matters and to the Springer-Verlag which performed the timely publication of this volume. I personally moreover want to thank W.Brauer for his help in the final selection of the papers, G.Hotz for finding the necessary funds and P.C.Fischer, M.A. Harrison, M.Nivat and M.Paul for their support during the organization of the Colloquium.

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