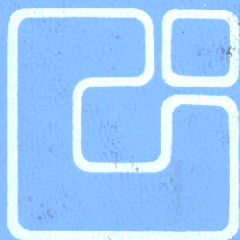


distributed data bases

edited by
h.-j. schneider



north-holland

Second International Symposium on
Distributed Data Bases
September 1-3, 1982

Organized by
Gesellschaft für Informatik (GI)

in cooperation with
AFCET, AICA, IBM, IEEE, IFIP-TC2,
IGDD, INRIA, Nixdorf, Siemens,
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Proceedings of the Second International Symposium on
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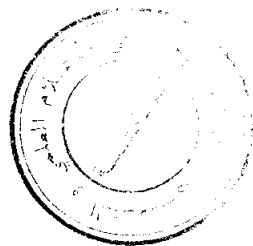
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ISBN: 0 444 86474 1

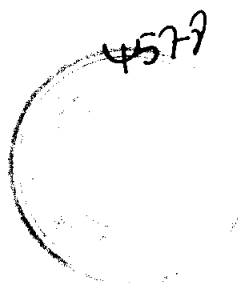
Published by:

NORTH-HOLLAND PUBLISHING COMPANY
AMSTERDAM • NEW YORK • OXFORD

Sole distributors for the U.S.A. and Canada:

ELSEVIER SCIENCE PUBLISHING COMPANY, INC.
52 Vanderbilt Avenue
New York, N.Y. 10017

PRINTED IN THE NETHERLANDS



PREFACE

Distributed data base systems and their components are becoming of ever increasing interest to our society. The data processing community has evolved towards a recognition of the importance for handling large masses of data in distributed and loosely coupled organizations. Users are now realizing a need for systems which support such distributed systems in industry, civil service and public administration. A new theory of handling distributed control has to be developed. Many indicators show that the development of distributed systems and, in particular, of distributed data base systems as the kernel part of such systems will be one of the major directions in computer science in the forthcoming decade.

In 1980, the first international symposium on distributed data bases was organized by INRIA (Institut National de Recherche en Informatique et en Automatique) in cooperation with many international scientific organizations. The results were edited by C. Delobel and W. Litwin and published by North-Holland.

Now the second international symposium on distributed data bases took place at the "Technische Universität Berlin" organized by the "Gesellschaft für Informatik" again in cooperation with many outstanding associations and institutions.

The conference concerned itself with the design, realization and evaluation of data base management systems on computer networks. Especially the following themes were deeply discussed :

- standardization
- computer networks
- multidatabase systems
- reliability
- query processing
- concurrency
- models and architecture

Three invited speakers gave overviews in the field of standardization issues, computer networks and multidatabase systems. The tutorial part of the conference served as the introduction and discussion of the four well-known distributed data base system proto-types POREL, R*, SIRIUS and VDN. Corresponding outlines are also included in this book.

The 30 papers submitted were reviewed by the Program Committee members (as listed opposite the title page), who together with the Tutorial Session Chairman, G. Gardarin, and the Organizing Chairman, S. Florek, helped in the preparation of the conference. We are greatly indebted for the hospitality of the Technische Universität Berlin.

The help of a number of very well-known specialists as referees provided the basis for the success of this conference. I would like to thank all of them very much for their contributions.

I hope that this book provides a challenge to the information system and data base system community and is a stimulus to researchers, implementers and users.

Hans-Jochen Schneider
Technische Universität Berlin
September 1982

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