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CONCUR '90

Theories of Concurrency:
Unification and Extension

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Preface

The ESPRIT Basic Research Action 3006, CONCUR (Theories of Concurrency: Unification and Extension) started on September 1, 1989. The principal aims of the action are to explore the relationships among the different approaches to algebraic concurrency theory, and to develop a formalism applicable to a wide range of case studies. Verification of concurrent or distributed systems has up till now been undertaken only on a very small scale, in a haphazard way, and with a multitude of techniques and formal theories. For industrial applicability, it is essential that some unity emerge from the competing theories of concurrency, and that the verification process be supported by reliable software tools.

Coordinating partner of CONCUR is CWI (Centre for Mathematics and Computer Science) in Amsterdam, the other partners are the Universities of Edinburgh, Oxford, Sussex and Amsterdam, INRIA in Sophia Antipolis, and the Swedish Institute for Computer Science. The conference CONCUR'90, hosted by CWI with the help of the University of Amsterdam, marks the end of the first year of CONCUR. In response to the call for papers, 54 papers were submitted. Of these, 31 were selected for presentation by the program committee. The selected papers appear in these proceedings, together with two articles by invited speakers. Unfortunately, due to lack of time, the other three invited speakers are only represented by abstracts.

The editors want to thank the members of the program committee with all their subreferees, and members of the organizing committee for all their efforts.

Amsterdam, July 1990

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