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Logics of Programs

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FOREWORD

It is almost twenty years since the foundations of programming logic were laid, and the field is as active now as ever. Current interest ranges all the way from practical program verification and specification to model theory and complexity. With such a broad field, it was inevitable that distinct schools would develop, each with its own language and philosophy, leading at times to duplicated effort and misunderstanding. The Logics of Programs Workshop was conceived as a way to bring the various schools together to air new ideas and old grudges, share results and techniques, and perhaps reach some consensus about where the field should be heading.

The workshop was held at the IBM Thomas J. Watson Research Center in Yorktown Heights, New York on May 4, 5, and 6, 1981. Fifty-five participants from nine countries took part in two and a half days of technical presentations and a half day of round-table discussion. The technical papers which appear in Part I of this volume have not been refereed and are to be considered working papers. Part II contains an edited transcript of the discussion.

The workshop was made possible through the generous support of the National Science Foundation[1] and IBM Corporation. I sincerely thank everyone who helped make the workshop a success, especially Leonard Berman, Celeste Bertin, Meera Blattner, John Cherniavsky, Jeanne Ferrante, Steve Fortune, Albert Meyer, Karen Møller, Rohit Parikh, Vaughan Pratt, Dana Waering, and Mark Wegman. Special thanks go to Michelle Cofer for her expert handling of minor crises, Jim Thatcher and Diana Seidel for providing accommodations and organizing a superb party, and Frances Kozen for general support in ways too numerous to mention.

Dexter Kozen
Yorktown Heights, New York
September 1, 1981

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