# Preface

The workshop on Computability and Complexity in Analysis, CCA 2000, was hosted by the Department of Computer Science of the University of Wales Swansea, September 17–19, 2000. It was the fourth workshop in a successful series of workshops: CCA'95 in Hagen, Germany, CCA'96 in Trier, Germany, and CCA'98 in Brno, Czech Republic. About 40 participants from the countries United Kingdom, Germany, Japan, Italy, Russia, France, Denmark, Greece, and Ireland contributed to the success of this meeting. Altogether, 28 talks were presented in Swansea. These proceedings include 23 papers which represent a cross-section through recent research on computability and complexity in analysis. The workshop succeeded in bringing together people interested in computability and complexity aspects of analysis and in exploring connections with numerical methods, physics and, of course, computer science. It was rounded off by a number of talks and papers on exact computer arithmetic and by a competition of five implemented systems. A report on this competition has been included in these proceedings. We would like to thank the authors for their contributions and the referees for their careful work, and we hope for further inspiring and constructive meetings of the same kind.

April 2001

Jens Blanck
Vasco Brattka
Peter Hertling

# Organization

CCA 2000 was hosted by the Department of Computer Science of the University of Wales Swansea and took place on September 17–19, 2000.

## Program Committee

Ker-I Ko                      (Stony Brook, USA)
Marian Boykan Pour-El         (Minnesota, USA)
Dana Scott                    (Carnegie-Mellon, USA)
Viggo Stoltenberg-Hansen      (Uppsala, Sweden)
John V. Tucker                (Swansea, Wales)
Klaus Weihrauch, chair        (Hagen, Germany)
Mariko Yasugi                 (Kyoto Sangyo, Japan)
Jeffery Zucker                (McMaster, Canada)

## Organizing Committee

Jens Blanck                   (Swansea, Wales)
Vasco Brattka                 (Hagen, Germany)
Peter Hertling                (Hagen, Germany)