Editorial

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The papers of this volume were submitted after the SCAN-2010 Conference (Scientific Computation and Numerical Analysis) which took place in Lyon in 2010. They represent the state of the art.

The first seven papers contain results on the theory of interval arithmetic and algorithms. Four papers concerned with questions of software and hardware realizations are following. The third part consists of nine papers and treats important applications.

All submitted papers have been carefully reviewed by two or even more reviewers. The referees were all very cooperative and did an excellent job.

We are indebted to all people who supported us. Special thanks go to Springer-Verlag, Vienna, for publishing these papers. Finally, it is a must to thank Mrs. Silvia Schilgerius from Springer-Verlag, Vienna, for her very kind cooperation.

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