Preface

This special volume is dedicated to professor Karl Strehmel (see the Laudatum on the next page) and contains a selection of papers based on lectures presented at the eleventh seminar on Numerical Solution of Differential and Differential-Algebraic Equations (NUMDIFF-11) which took place in Halle, Germany, September 4-8, 2006.

The scientific program of the conference consisted of 15 invited lectures, 4 mini-symposia entitled Exponential Integrators, Numerical Methods in Mathematical Biology, Maxwell Equations and Electromagnetics, and Mesh-free Methods, containing 25 lectures in total, and 70 short contributed talks.

This special issue contains 30 papers, which all have been subject to the regular reviewing process for APNUM. Here, we want to gratefully acknowledge the help of many referees as to guarantee the quality of the papers. We also want to thank IMACS and the Editorial Board of APNUM for offering the possibility to publish these proceedings as a special issue.

Special thanks go to the Martin-Luther-Universität Halle-Wittenberg for financial support and for providing infrastructure during the conference, and to the Deutsche Forschungsgemeinschaft and the Amt für Wirtschaftsförderung der Stadt Halle (Saale) for their support. We are grateful to several sponsors for their financial assistance: INTEC GmbH Weßling, R. Manitz (IT Beratung und Softwareentwicklung), and Halloren Schokoladenfabrik GmbH Halle. The organizing committee thanks in particular the dedicated secretarial assistance of Ilona Tischler, Alf Gerisch, and Helmut Podhaisky from the local organization.

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