Preface

The present book includes a set of selected papers from the 2011 International Conference on Advanced Design and Manufacturing Engineering (ADME 2011), held in Guangzhou, China, from 16 to 18 September 2011, sponsored by Guangdong University of Technology, Huazhong University of Science and Technology, Hong Kong University of Science and Technology, Hong Kong Polytechnic University and University of Nottingham. The conference was organized in four simultaneous tracks: “Advanced Design Technology”, “Advanced Materials and Processes”, “Advanced Manufacturing Technology” and “Equipment Manufacturing Technology and Automation”.

All papers included in this book are under the scrutiny of peer and expert reviews before accepted for publication, and in accordance with high academic standard and quality. This book covers the subject areas of innovative design methodology, product life cycle design, intelligent optimization design, structural strength and robustness, reverse engineering, green design and manufacturing, design for sustainability, machinery dynamics, new mechanisms and robotics, driven train mechanisms, complex electro-mechanical system design, advanced CAE technique and other related topics.

On behalf of the conference organizing committee, we would like to thank all participants. First of all to the authors, whose quality work is the essence of the conference and to the members of the committee for their expertise and time. We also wish to thank all referees for their constructive comments.

Professor Dr. Jian Gao
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The 2011 International Conference on Advanced Design and Manufacturing Engineering (ADME 2011)

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