

Preface

2013 Asian Pacific Conference on Mechatronics and Control Engineering (APCMCE 2013) will be held on March 26-27, 2013, Hong Kong. The goal of this conference is to bring together the researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of Mechatronics, Control Engineering.

The Conference attracted more than 240 excellent manuscripts from at least 15 countries and areas Republic of Malaysia, Cocos (Keeling) Islands, Lebanon, Korea, China, Thailand, Federation, Slovakia, Mexico, Taiwan, Poland, Japan, Russian Federation, Italy, United States, Brazil, Argentina. For a high quality proceedings, All the papers were evaluated by peer reviewing with minor modifications, more than 100 papers were accepted with major modifications and 40 papers were weakly accepted and 100 papers were rejected. At last more than 140 selected papers in this proceedings provides up-to-date, comprehensive and worldwide state-of-the technology and knowledge in Mechatronics and Control Engineering.

The Conference Committee has decided to publish the proceedings as a special issue of the journal “Advance Materials Research”, edited by Trans. Tech. Publications Ltd, Switzerland, which will be submitted for indexing of Engineering Index or others famous academic databases.

After the excellent keynote presentations on March 26, authors from different countries and areas participated warmly discussions for their viewpoints with dividing into several session by paper topics. The organizing committee carried out the selection of invited and contributed papers, and their arrangements into 5 sessions with paper topics: 1) 56 papers stress on the technologies and applications of “Mechatronics System”; 2) 21 papers talk about the “Mechanical design-calculation and mapping”; 3) 12 papers “Automation equipment-technology-systems and applications”, especially, electronics & intelligent equipments. 4) 29 papers is about computer and robot technologies. 5) 20 papers describe the advanced research about “Materials and Chemical Engineering” 6) only 3 of them states the applications of “ Metallurgy and metal craft”.

The organizing committee expresses its entire gratitude to all the authors who presented their works as the Conference APCMCE2013 and contributed in this way to the success of this event. Special thanks are due to the authors from abroad for attending the conference and to the reviewers for their support in improving the quality of the papers and finally for the assurance the quality of this volume. The organizing committee also addresses warmest thanks to all the members of the international committee for their support, and too many others for their contribution in organizing APCMCE2013.

We hope that the contents of this volume will prove useful for researchers in powder metallurgy field and practitioners in developing and applying new materials and processes.

Wen Jin

APCMCE 2013 Organizing Committee

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