

Preface

Mechatronics is a design process that includes a combination of mechanical engineering, electrical engineering, control engineering and computer engineering. Applied mechanics is a branch of the physical sciences and the practical application of mechanics. Energy engineering is one of the more recent engineering disciplines to emerge. The main job of energy engineers is to find the most efficient and sustainable ways to operate buildings and manufacturing processes. Consequently, Aiming to the advances and integration of Mechatronics, Applied Mechanics and Energy Engineering, 2013 International Conference on Mechatronics, Applied Mechanics and Energy Engineering (MAMEE 2013) will be held on July 27-29, 2013, Singapore. MAMEE is an annual conference to call together researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Mechatronics, Applied Mechanics and Energy Engineering.

MAMEE 2013 has received more than 300 submissions from 25 countries and regions. The papers come from both academia and industry reflecting the international flavor of this event in the topics of Mechatronics, Applied Mechanics and Energy Engineering. 22 PC members and 42 International reviewers worked hard in reviewing the submissions. Based on the review reports, about 108 papers were accepted to be presented in MAMEE 2013 by the chairs. All the accepted papers have been presented on the conference, mainly by oral presentations in six sessions viz., 1. Material Engineering, 2. Manufacturing Technology and Processing, 3. Mechatronics and Automation, 4. Applied Mechanics, 5. Energy Engineering, and 6. Information Technologies in Design.

There were many novel research works have been introduced and highly evaluated. For example, the “Energy and Economic Comparison of different conditioning system among traditional and eco-sustainable building” by V. Franzitta in the Energy session introduced the new achievements of eco-sustainable building in Italy; “Researches on Thermo-Electric Properties of Seawater and Al₂O₃ Nanofluids” from Taiwan by Jung-Chang Wang introduced new achievement in Materials. R. Ibarra from Mexico introduce provided a classic integration of Mechatronics, Applied Mechanics and Energy Engineering in the paper “Robust Control Analysis Techniques Applied to a Mini Aircraft”. The participants came to an agreement that they will participate in the MAMEE 2014 next year.

We express our thanks to all the members of the General Committee Chairs, Program Committee Chairs, Technical Program Committee and Volunteers who worked so hard to prepare the conference and chair the 6 sessions in MAMEE 2013 .

We hope that MAMEE 2013 will be successful and enjoyable to all participants. We look forward to seeing all of you next year at the MAMEE 2014.

Wensong Hu

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