

Preface

2012 International Conference on Mechanical Materials and Manufacturing Engineering (ICMMME 2012) will be held on October 5-6, 2012, Dalian, China. The objective of ICMMME 2012 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 Mechanical Materials and Manufacturing Engineering.

ICMMME 2012 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 Acoustics And Noise Control, Ballistics, Biomechanics, Biomedical Engineering, CAD/CAM/CIM, CFD, Composite And Smart Materials, Compressible Flows, Computational Mechanics, Computational Techniques, Dynamics And Vibration, Energy Engineering And Management, Engineering Materials, Fatigue And Fracture, Applied Mechanics, Automation, Mechatronics And Robotics, Fluid Dynamics, Fluid Mechanics And Machinery, Fracture, Fuels And Combustion, Aerodynamics, Textile And Leather Technology, Transport Phenomena , Tribology , Automobiles, Automotive Engineering, General Mechanics, Geomechanics, Instrumentation And Control, Internal Combustion Engines, Machinery And Machine Design, Manufacturing And Production Processes, Marine System Design, Material Science And Processing, Mechanical Design, Health And Safety, Heat And Mass Transfer, HVAC, Material Engineering, Mechanical Power Engineering, Mechatronics, Noise And Vibration, Noise Control, Non-Destructive Evaluation, Nonlinear Dynamics, Oil And Gas Exploration, Operations Management, PC Guided Design And Manufacture, MEMS And Nano Technology, Multibody Dynamics, Nanomaterial Engineering, New And Renewable Energy, Plasticity Mechanics, Pollution And Environmental Engineering, Resistance And Propulsion, Robotic Automation And Control, Solid Mechanics, Structural Dynamics, Precision Mechanics, Mechatronics, Production Technology, Quality Assurance And Environment Protection, System Dynamics And Simulation, Turbulence, Vibrations , etc. And about 105 papers were accepted to be presented in ICMMME 2012, according to the reports from anonymous reviewers. All the presented papers will be published by TTP Press in Applied Mechanics and Materials (ISSN: 1660-9336), which will be online available in full text via the platform www.scientific.net, and be indexed by Scopus, EI Compendex, ISI Proceedings, etc.

We would like to thank the program chairs, organization staff, and the members of the program committees for their hard work. Special thanks go to TTP Publisher.

We hope that ICMMME 2012 will be successful and enjoyable to all participants. We look forward to seeing all of you next year at the ICMMME 2013.

Edited by Xiong Zhou and Honghua Tan

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