

PREFACE

Dear Distinguished Delegates and Guests,

International Conference on Electrical Information and Mechatronics (ICEIM2012) was held in Jiaozuo, China, from December 23-25, 2012, serving as a platform for expertise exchange. ICEIM 2012 had drawn the attention of researchers from various disciplines: Sustainable Electrical Information and Mechatronics, etc.

Persons who attended the conference were engineers, scientists, managers of various companies and professors of the universities abroad and home. We have had record number of submission 687 this year. From which 211 papers have been accepted for presentation at the conference and will be published by TTP, in Applied Mechanics and Materials (AMM) Journal (ISSN: 1660-9336), which is online available in full text via the platform www.scientific.net. AMM should be indexed by EI according the previous TTP index results.

We express our special gratitude to all the members of the General Committee Chairs, Program Committee Chairs, Technical Program Committee and Steering Committee who worked so hard to prepare the conference and who supported the conference so professionally.

International Conference on Electrical Information and Mechatronics (ICEIM2012) is organized by Henan Polytechnic University, co-organized by Chinese Academy of Sciences, Society of Intelligent Aerospace Systems (SIAS), Linear Motor Committees of China Electrotechnical Society, China, Zhejiang University, Southeast University, BeiHang University, Northwestern Polytechnical University, China University of Mining and Technology, Zhengzhou University and et al, and it sponsored by the fund from National Natural Science Foundation of China (NSFC). Their kind support makes ICEIM 2012 become possible. Especially, we should thank the TTP.

Finally, we would like to thanks all the authors, speakers and participants of this conference for taking part in and contributing to the International Conference on Electrical Information and Mechatronics.

We hope you have a unique, rewarding and enjoyable week at ICEIM2012 in Jiaozuo, China.

With our warmest regards,

ICEIM2012 Organizing Committees
December 23-25, 2012
Jiaozuo, China

Committees

Conference Chairs

Shiying Yuan, Henan Polytechnic University, China
Yuhang Yang, Shanghai Jiao Tong University, China

Program Committee Chairs

Ziyi Fu, Henan Polytechnic University, China
Yunyue Ye, Zhejiang University, China
Fashan Yu, Henan Polytechnic University, China
Liucheng Jiao, Henan Normal University, China
Ming Fan, University of Washington, USA

Local Arrangement Chairs

Xudong Wang, Henan Polytechnic University, China
Fuzhong Wang, Henan Polytechnic University, China

Contact Co-Chairs

Zhu Jun, Henan Polytechnic University, China
Wenjiang Du, Chongqing Normal University, China

Publication Chair

Qingmei Xiao, Chongqing Normal University, China

Technical Program Committee

Maode Ma, Nanyang Technological University, Singapore
Dechang Chen, Uniformed Services University of the Health Sciences, USA
Mei-Ching Chen, Tatung University, Taiwan
Rong-Chang Chen, National Taichung Institute of Technology, Taiwan
Chi-Cheng Cheng, National Sun Yat-Sen University, Taiwan
Naohiko HANAJIMA, Muroran Institute of Technology, Japan
Shumin Fei, Southeast University, China
Xiaohong Fan, Henan University of Urban Construction, China
Juergen Bruess, AutoTXT, Germany

Bahram Honary, Lancaster University, UK
Michael Darnell, Warwick University, UK
Plamen Angelov, Lancaster University, UK
Farideh Honary, Lancaster University, UK
T.R. Melia, Cisco Systems, Switzerland
Liming Shi, Chinese Academy of Science, China.
Shumin Fei, Southeast University, China.
Yingmin Jia, BeiHang University, China.
Weiguo Liu, Northwestern Polytechnic University, China.
Yongji Wang, Huazhong University of Science and Technology, China.
Xiaoping Ma, China University of Mining and Technology, China.
Jie Wang, Zhengzhou University, China.
Yanbo Hui, Henan University of Technology, China.
Guangzhao Cui, Zhengzhou University of light Industry, China.
Xuejun Li, Hunan University of Science and Technology, China
Pengjun Mao, Henan University of Science and Technology, China.
Dongyun Wang, Zhongyuan University of Technology, China.
Qixing Xu, Henan Institute of Engineering, China.
Xiaohong Fan, Henan University of Urban Construction, China.
Bo Zhao, Henan Polytechnic University, China.
Zongpu Jia, Henan Polytechnic University, China.
Xuemao Guan, Henan Polytechnic University, China.
Zheng Zhen, Henan Polytechnic University, China.
Quanyu Kang, Henan Polytechnic University, China.
Yongle Ai, Henan Polytechnic University, China.
Ming Fan, Foster School of Business of University of Washington, USA
Juergen Bruess, AutoTXT, Germany
Bahram Honary, Lancaster University, UK
Michael Darnell, Warwick University, UK
Plamen Angelov, Lancaster University, UK
Farideh Honary, Lancaster University, UK
T.R. Melia, Cisco Systems, Switzerland

Reviewers

T.R. Melia, Cisco Systems, Switzerland
W.M. Eddy, NASA/Verizon, USA
H.R. Haddadi, University College London, UK
J.H. Ott, Helsinki University of Technology, Finland
S.-Y. Hua, National Central University, Taiwan
K.J. Li, University of Georgia, USA
G.H.Gao, Henan Institute of Science and Technology, China
M.J. Stiernerling, NEC Europe Labs, Germany
F. Kuo, University of Goettingen, Germany
J.G. Qu, Hebei United University, China
J.X. Chen, University of Vigo, Spain
R.C. Tang, Ocean University of China, China
L.X. Shi, IBM Research Lab, China
R. Zhu, South-Central University for Nationalities, China
G.X. Danilewicz, Poznan University of Technology, Poland
Y.Z. Xu, Polytechnic University, USA
K.W. Xu, Arizona State University, USA
H.J. Wang, College of William and Marry, USA
C.X. Wu, University of Toronto, Canada
S.H. Yan, Hebei United University, China
W.M. Zhang, North Dakota State University, USA
D.L. Liu, ShenYang Ligong University, China
Y.X. Tang, Illinois State University, USA
L. Zhou, ENSTA-ParisTech, France
A.M. Yang, Hebei United University, China
W.X. Wei, NEC Labs America, USA
Y.L. Zhao, Northwestern University, USA
G.F. Gui, CMC Corporation, China
A.D. Baiocchi, University of Roma, Italy
L.C. Feng, Hebei Polytechnic University, China
M.Z. Liao, Cisco China R&D Center, China
O.X. Altintas, Toyota InfoTechnology Center, Japan
S.J. Giordano, University of Pisa, Italy
Y. Lin, Norwegian University of Science and Technology, Norwegian
Y.W. Zou, Apple China Co., Ltd., China
X.G. Zhang, Nanyang Normal University, China
Z.G. Wei, Beijing Forestry University, China
Y.J. Li, Shanghai Jiao Tong University, China
H.B. Nguyen, The Aerospace Corporation, USA

D.U. Sarkar, University of Miami, USA
H.Y. Bao, NTT Co., Ltd., Japan
C.A. Wei, Hainan Medical University, China
X.W. Hu, Wuhan University of Technology, China
S.B. Zhong, Chongqing Normal University, China
Z.Q. Liu, AT&T, USA
I.R. Guardini, Telecom Italia Lab, Italy
Y.L. Jin, Shanghai University, China
E.R. Hossain, University of Manitoba, Canada
D.X. Gong, Hebei Polytechnic University, China
D.W. Niyato, Nanyang Technological University, Singapore
L.X. Le, Massachusetts Institute of Technology, USA
H.Chen, Hu'nan University, China
L.L. Wang, Beijing University of Posts and Telecommunications, China