

PREFACE

Dear Distinguished Delegates and Guests,

The 3rd International Conference on Computer-Aided Design, Manufacturing, Modeling and Simulation (CDMMS2013) was held in Chongqing, China, from September 21-23, 2013, serving as a platform for expertise exchange. CDMMS2013 had drawn the attention of researchers from various disciplines: CAD, CAM, Manufacturing, Mechanical Engineering, Modeling and simulation, 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 532 this year. From which 151 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.

The 3rd International Conference on Computer-Aided Design, Manufacturing, Modeling and Simulation (CDMMS2013) is organized by Hunan Institute of Engineering, Zhejiang Gongshang University, Nanyang Technological University, Shanghai Jiao Tong University, Beijing University, and sponsored by National Natural Science Foundation of China (NSFC), Provincial Natural Science Foundation of Hunan (13JJ9022), Provincial Science & Technology plan project of Hunan(2013GK3029). Their kind support makes CDMMS2013 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 Computer-Aided Design, Manufacturing, Modeling and Simulation.

We hope you have a unique, rewarding and enjoyable week at CDMMS2013 in Chongqing.

With our warmest regards,

CDMMS2013 Organizing Committees
September 21-23, 2013
Chongqing, China

CDMMS 2013 Committees

Conference Chairs

Bahram Honary, Lancaster University, UK

Xingui He, Academician of Chinese Academy of Engineering, China

Program Committee Chairs

Yuhang Yang, Shanghai Jiao Tong University, China

Ming Fan, University of Washington, USA

Organizing Chair

Juergen Bruess, AutoTxt, Germany

Kexiang Wei, Hunan Institute of Engineering, China

Contact Co-Chairs

Wenjiang Du, Chongqing Normal University, China

Publication Chairs

Maode Ma, Nanyang Technological University, Singapore

Xilong Qu, Hunan Institute of Engineering, China

Technical Program Committee

Xizhang Chen, Jiangsu University, China

Haiqing Si, Nanjing University of Aeronautics and Astronautics, China

Meiqiang Cai, Zhejiang Gongshang University, China

Zirong Zhou, Dongguan University of Technology, China

Enrico Gregori, Institute of Informatics and Telematics, Italian National Research Council (CNR), Italy

Shiwen Mao, Auburn University, USA

Hanif D. Grado Serali, Virginia Tech, USA

George Athanasiou, University of Thessaly, Greece

Ozgur Ercetin, Sabanci University, Turkey

Svilen Ivanov, University of Magdeburg, Germany

John C. S. Lui, Chinese University of Hong Kong, Shatin, Hong Kong, Hong Kong

Hwangnam Kim, Korea University, Korea,

Jun Zou, McMaster University, Canada

Shafiullah Khan, Brunel University, United Kingdom

Sung-Ta Tsai, National Chengchi University, Taiwan

Luciano Lenzini, University of Pisa, Italy

Hassanein Hossam, Queens University, Canada

Sirisha Medidi, Boise State University, USA

Yajun Li, Shanghai Jiao Tong University, China

Rongbo Zhu, South-Central University for Nationalities, China

Yuan Lin, Norwegian University of Science and Technology, Norwegian

Jianxin Chen, University of Vigo, Spain

Hui Wang, University of Evry in France, France

Xiyin Wang, Hebei Polytechnic University, China

Dianxuan Gong, Hebei Polytechnic University, China

Chunxiao Yu, Yanshan University, China

Yanbin Sun, Beijing University of Posts and Telecommunications, China

Mingyi Gao, National Institute of AIST, Japan

Guofu Gui, CMC Corporation, China

Haiyong Bao, Fuji Xerox Co., Ltd., Japan

Xiwen Hu, Wuhan University of Technology, China

Mengze Liao, Cisco China R&D Center, China

Yangwen Zou, Apple China Co., Ltd., China

Yajun Guo, Huazhong Normal University, China

Liang Zhou, ENSTA-ParisTech, France

Xi Zhang, Texas A&M University, USA

Weihua Zhuang, University of Waterloo, Canada

Jayesh Seshadri, University of Texas at Austin, USA

Pan Li, Mississippi State University, USA

Cheng Li, Memorial University, Canada

Nael Abu-Ghazaleh, State University of New York at Binghamton, USA

Yang Xiao, University of Alabama, USA

Abd-Elhamid Taha, Queen's University, Canada

Michele Rossi, University of Padova, Italy

Venkatesha Prasad, Delft University of Technology, Netherlands

Mina Guirguis, Texas State University, USA

Nils Aschenbruck, University of Bonn, Germany

Ragip Kurceren, Nokia Research, USA

Haining Wang, College of William and Marry, USA

Onur Altintas, Toyota InfoTechnology Center, Japan

Suresh Subramaniam, George Washington University, USA

Dominic Shupke, Nokia Seimens, Germany

Abdallah Shami, University of Western Ontario, Canada

Dimitri Androutsos, Ryerson University, Canada

Muhammad Jamil Anwas, Lahore University of Management Science Lahore, Pakistan

Mian Muhammad Awais, Lahore University of Management Science Lahore, Pakistan

Ing. Vitoantonio Bevilacqua, Polytechnic of Bari, Italy

Tim. B. Littler, Queen's university Belfast, UK

Jinde Cao, Southeast University, China

Wenming Cao, Zhejiang University of Technology, China

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

Ziping Chiang, Leader University, Taiwan

Key-Sun Choi, Korea Advanced Institute of Science and Technology, Korea

Daniel Coca, The University of Sheffield, UK

Du-Wu Cui, Xi'an University of Technology, China

Donald C. Wunsch, University of Missouri – Rolla, USA

Sylvia Encheva, Stord/Haugesund University College, Norway

Minrui Fei, Shanghai University, China

John Q Gan, University of Essex, UK

Michael Granitzer, Know-Center Graz, Austria

Saeed Hashemi, Tehran University, Canada

Marko Hoevar, University of Ljubljana, Slovenia

Jiankun Hu, RMIT University, Australia

Zhao-Hui Jiang, Hiroshima Institute of Technology, Japan

Michael J.Watts, Lincoln University, New Zealand

Tai-hoon Kim,Defense Security Command,Korea

Seong G. Kong, The University of Tennessee USA

Worapoj Kreesuradej, King Mongkut's Institute of Technology Ladkrabang, Thailand

Haibing Yin, Peking University, China

Yanliang Jin, Shanghai University, China

CDMMS2013 Reviewers

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.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
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
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
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
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.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
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