

Call for papers (First Announcement)
18th International Conference on Mechatronics Technology (ICMT2014)
October 21-24, 2014, Taipei, Taiwan

Organizers:

National Taiwan University of Science and Technology (Taiwan Tech)

Co-organizers:

National Taiwan University
Chinese Society of Mechanical Engineers

Honorable Chairman:

Ching-Jong Liao, Taiwan Tech

International Steering Committee:

- Australia:** Gursel Alici, John Billingsley, Saeid Nahavandi, Bijan Shirinzadeh
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Japan: Toshio Fukuda, Katshushita Furuta, Nobuyuki Iwatsuki, Mamoru Mitsuishi, Yoshimi Takeuchi, Shinichi Yokota, Naoki Asakawa
Korea: Kyoung Kwan Ahn, Soon Young Yang, Byung Ryong Lee, Sun-Kyu Lee
Malaysia: Shamsudin Hj, Mohd Amin, Marzuki Khalid
Mexico: Jesús Manuel Dorador-González, José Emilio Vargas-Soto
Philippines: Feliciano H. Japitana, Elmer P. Dadios
Singapore: Loke-Chong Lee, Ser Yong Lim, Marcelo H. Ang, Jr., Danwei Wang
Taiwan: Kuang-Chao Fan, Fang-Jung Shiou
Thailand: Manukind Parnichkun, Nitin Afzulpurker
Turkey: Okyay Kaynak
UK: Robert Parkin, Mike Jackson
USA: Jay Lee, Masayoshi Tomizuka, Oussama Khatib, Kazuo Yamazaki
Vietnam: Nguyen Khoa Son, Dau Si Thai, Pham Thuong Cat, Pham Anh Tuan

Conference Chairman:

Fang-Jung Shiou
Kuang-Chao Fan

Program Committee:

Chairman: Jeng-Ywan Jeng
Liang-Chia Chen, Chi-Ying Lin, Fuh-Yu Chang, Chin-Hsing Kuo, Pin-Chuan Chen

Local Organizing Committee Members:

Liang-Kuang Chen, Geo-Ry Tang, Dong-Yea Sheu, Chun-Hui Chung, Nate Hsu

Date:

October 21(Tuesday) – October 24(Friday), 2014

Conference Site:

43, Keelung Road, Section 4, Taipei, Taiwan

Website: <http://www.ntust.edu.tw>

Access: 50 min. by bus from Taoyuan International Airport to Taipei

Scope of the Conference:

The technical term, Mechatronics, was coined by Mr. Tetsuro Mori, CEO/President, Seibu Electric and Machinery Co. Ltd., in 1969 when he worked for Yaskawa Electric Corporation in Kitakyushu, Japan. The purpose was to promote the new technology to produce new machine tools by integrating machines and electronics. "Mechatronics" is therefore a means to open up a brighter future through innovation in technology.

The ICMT is an annual international mechatronics and technology conference that has been successfully held for 17 years. ICMT offers a forum to discuss state-of-the-art technologies and emerging application trends, and provides great opportunities for professional interactions and networking in a friendly and hospitable setting. The first ICMT was convened in Santa Clara, USA, in 1996, and subsequently in Yokohama, Hsinchu, Pusan, Singapore, Kitakyushu, Taipei, Hanoi, Kuala Lumpur, Mexico City, Ulsan, Sudbury, Cebu City, Osaka, Melbourne, Tianjin, Jeju Island, and this year at Taipei, Taiwan. The objective of ICMT is to facilitate close dialogues, networking and collaborations among experts on issues related to research and technological development in mechatronics, as well as in human resource development and education.

ICMT2014 continues to follow the rich tradition of ICMT with the following conference theme:

Innovative Mechatronics Technology

Technical Sessions:

In addition to the regular tracks of technical presentations, the technical program will also feature invited sessions with technology and industry specific themes. Special emphasis will be placed on the innovative usage of mechatronics technology. Topics of interest include, but are not limited to the followings:

- (1) Advanced Mechatronics Devices
Robotics, Robot factory, Mobile Robots, Motion control, Intelligent Mechanism, Parallel Mechanisms in Machine Tools, Man-Machine Interfaces, Fluid Power Equipment
- (2) Mechatronics Sensing and Control
Sensors, Computer Vision and Recognition, Automated Navigation, Modeling, Tele-operation, Intelligent and Advanced Control, Adaptive Control, Artificial Intelligence, Vehicle Dynamics,
- (3) Smart Actuators and Materials
Actuators using Functional Fluid, SMA Actuators, Piezo-Electric Actuators, Electro-Static Actuators, Magneto-Strictive Actuators, Smart Materials and Structures.
- (4) MEMS/NEMS and Micro/Nano-Manufacturing
Precision Mechatronics, Micro/Nano-Electro Mechanical Systems, Opto-Mechatronics, Ultra High Precision Machining, Focus Ion Beam Manufacturing
- (5) Precision Measurement Technology
Dimensional Measurement, Micro/Nano Measurement, Ultra High Precision Positioning, Optical and Laser Technology, Scanning Probe Microscopy Technology, Precision Instrumentation
- (6) Production Systems
Automation Science and Technology, Intelligent Machine Tools, Flexible Manufacturing Systems, Agile Manufacturing, Production Planning and Control, Fault Monitoring & Diagnosis, e-Manufacturing, Remote Manufacturing with Internet, Free From Surface Machining
- (7) Renewable Energy and Energy Saving Technologies
Sustainable Energy Resources, Energy Conversion Devices, Control Technologies
- (8) Bioengineering and Mechatronics Applications in Life Sciences
Biosensors, Biochip Manipulation, Human-Friendly Mechatronics, Human Adaptive Mechatronics, Life Cycle Design, Recycle Technology, Ecological Design and Production
- (9) 3D Printing Technologies
Stereolithography, Fused deposition modeling (FDM), Selective laser sintering (SLS)
- (10) Human Resource Development and Education on Mechatronics Technology
Strategy on Mechatronics Technology, Mechatronics Education, Computer-Aided Instruction

Sponsors:

Instrument Technology Research Center, others will be added.

Conference Website:

<http://icmt2014.ntust.edu.tw>

Download the call for paper, author's kit, and the registration form of the conference from the Website.

Conference fees:

The attendee conference fee includes registration, proceedings, welcome reception, lunches, banquet, and tour.

Fees are shown in US Dollars.

	Early	Late
All attendee (including speaker)	500 USD	600 USD
Student attendee (including speaker) (not including banquet)	300 USD	400 USD
Banquet fee for an additional guest (including tour)	50 USD	
Conference publication charge (EI-indexed)	100 USD	
Additional paper	250 USD	

Optional programs:

Available soon.

Conference Secretariat:

If you have any questions, inquires or proposals on ICMT2014, you can contact the General Secretary:

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Additional information:

Visa applications:

Information about Taiwan and Taipei:

<http://eng.taiwan.net.tw/>

<http://www.taipeitravel.net/en/>

Related international conference:

3M-NANO 2014

<http://3m-nano.org/2014/main/index.asp>

Contributed Papers and Invited Session Proposals:

The organize committee is soliciting contributed papers and invited session proposals. Review of the contributed papers will be based on full-length papers. Invited session proposals should include a session title, and the abstracts of 4 to 6 papers

together with the contact information of the session proposer.

Special Publication in Journals:

All accepted papers will be published in the Proceedings in Key Engineering Materials (indexed by Ei Compendex).

Selected extended papers will be recommended to the following journals for review and publication:

1. Journal of the Chinese Institute of Engineers (SCI)
2. Journal of Technology (EI)

Program:

October 21	(Tue)	Registration and Welcome Party.
October 22	(Wed)	Opening Ceremony. Keynote Speeches and Technical Sessions. International Steering Committee Meeting.
October 23	(Thu)	Keynote Speeches and Technical Sessions. Banquet.
October 24	(Fri)	Tour.

Submission Procedure:

Full papers should be submitted by June 30, 2014 via conference

WEB site: <https://cmt.research.microsoft.com/ICMT2014>

Only PDF file with a predefined format is acceptable.

Submission form and paper template files will be available from the Website.

Important Dates

Proposal for invited sessions	April 30, 2014
Notification of acceptance of invited session proposal	May 31, 2014
Full paper due date	June 30, 2014
Notification of full paper acceptance	August 15, 2014
Submission of camera ready manuscripts	August 31, 2014
Deadline for early registration	September 10, 2014
Conference	October 21-24, 2014

