



Call For Papers

9th International Conference on Mechatronics Technology

December 5 - 8, 2005, Kuala Lumpur – Malaysia

First Announcement



Organizer:

Centre of Artificial Intelligence and Robotics
(CAIRO), Universiti Teknologi Malaysia

Date:

December 5 (Monday) - December 8 (Thursday), 2005

Conference Site:

At a prominent hotel in Kuala Lumpur, Malaysia.

Co-Organizers:

Standards and Industrial Research Institute of
Malaysia (SIRIM)
Ministry of Higher Education
Ministry of Science, Technology and Innovation

Scope of the Conference:

The technical term, Mechatronics, was coined by Mr. Tetsuro Mori, CEO/Chairman, Seibu Electric and Machinery Co., Ltd., in 1969 when he worked for Yaskawa Electric Corporation in Kitakyushu. The purpose was to promote the new technology to produce new machine tools by integrating machines and electronics. "Mechatronics" is hence attached the meaning that helps open up a new road toward brighter future. The first ICMT was convened in Santa Clara, USA (1996), and subsequently in Yokohama, Japan (1997), in Hsinchu, Taiwan (1998), in Pusan, Korea (1999), in Singapore (2001), in Kitakyushu, Japan (2002), in Taipei, Taiwan (2003) and in Hanoi, Vietnam (2004). The objective of ICMT is to facilitate close dialogues among experts on issues relating to research and technological development in mechatronics. This conference is aimed to promote strong interactions between academy and industry in all the aspects of mechatronics technology, including human resource development and education.

International Steering Committee:

Australia : John Billingsley
China : Zengqi Sun, Guozheng Yan
Germany : Gerd Jäger, Rolf Isermann
Japan : Haruo Kozono, Yoshimi Takeuchi,
Nobuyuki Iwatsuki, Shinichi Yokota,
Katsushisa Furuta, Toshio Fukuda
Korea : Heui Jae Pahk
Hungary : Somlo Janos
Malaysia : Shamsudin Hj. Mohd. Amin
Mexico : D.J. Dorantes-Gonzalez
Singapore : Loke-Chong Lee, Lim Ser Young,
Marcelo H. Ang. Jr., Wang Dan Wei
Taiwan : Ren C. Luo, Kuang C. Fan
Thailand : Manukid Parnichkun
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

Main Theme:

The theme of ICMT2005 is then set as

New Frontiers in Mechatronics Technology

Technical Sessions:

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

(1) Advanced Mechatronics Devices

Robotics, Special mechanism in machine tools, Intelligent mechanism, Motion control, Man-machine interface, Mobile robots

(2) Mechatronics Sensing and Control

Sensors and actuators, Computer vision and recognition, Measurement and control, Automated navigation, Modeling, Identification, Intelligent and advanced control, Learning control, Artificial Intelligence

(3) MEMS & NEMS

Precision mechatronics, Ultra high precision measurement and positioning, Ultra high precision machining, Micro Electromechanical System, Optomechatronics, Nanotechnology, Smart sensors and actuators.

(4) Production System

Flexible automation production, Automation technology, Intelligent machine tools, Reverse engineering, On machine sensing and control, Production planning, Consumer based production, Inverse manufacturing, E-manufacturing, Infotronics-Enabled Mechatronics Systems for E-Maintenance, Rapid prototyping and manufacturing, Remote manufacturing with Internet.

(5) Bioengineering

Biosensors, Biochip manipulation, Medical equipment, Life cycle design, Maintenance, Recycle Technology, Ecological design and production, Applied DNA Computing.

(6) Human Resource Development, Education and Strategy on Mechatronics Technology

Education system and program, Computer aided instruction, Virtual reality, Globalization, Policy and Strategy Studies

Contributed Papers and Invited Session Proposals:

The organizing 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 5 to 6 papers together with the contact information of the session proposal.

Special Issue Publication in Journals:

Some selected papers will be recommended to the Journal of Systems and Control Engineering (IMechE Part I) and Transactions of the Institute of Measurement & Control for review and publication.

Honorable Chairman:

Datuk Prof. Ir. Dr. Mohd Zulkifli bin Tan
Sri Mohd Ghazali, Vice-Chancellor of
Universiti Teknologi Malaysia

Conference Chairman:

Marzuki Khalid

International Program Committee:

Chairman: Shamsudin H.M. Amin

Co-Chairmen: Maki K. Habib
Pham Anh Tuan
Yoshimi Takeuchi

Members:

Oussama Khatib	Abdul Hakim Juri
Okyay Kaynak	Yahaya Ahmad
Pham Tuong Cat	Robert Parkin
John Billingsley	Mike Jackson
Zahari Taha	Wan Ishak Wan Ismail
D.J. Dorantes-Gonzalez	Manukid Parnichkun
Momoh J. E. Salami	Sazali Yaacob
Marzuki Mustafa	R. Nagarajan
Nobuyuki Iwatsuki	Zengqi Sun
Lim Ser Jong	C.P. Lim
Jay Lee	Pham Anh Tuan
E.K. Wong	Shinichi Yokota
Ahmad Fadzil Hani	Marcelo H. Ang Jr
David Brown	Wang Dan Wei
Osamu Ono	Mortaza Mohamed
Fumiaki Takeda	Claude Moog
Minoru Fukumi	Akinori Nishihara
Bodo Heimann	S. Ishikawa
	I.J. Rudas

Organizing Committee:

Chairman: Marzuki Khalid

Sec Gen & Treasurer: Rubiyah Yusof

Members: Nazim Mir Nasiri
Mohammad Noh Ahmad
Mohd Suzuri Hitam
Marizan Sulaiman
Johari Halim Shah Osman,
R. Nagarajan
E.K. Wong
Mohd Marzuki Mustafa

Amir Akramin
Ishak Aris
Rosbi Mamat
Mohd Nor Mohd Than
Mohd Nor Mohd Taib
Zaharudin Mohamed
Mohd Rizal Arshad
Ahmad Zakaria
Musa Mailah
Mohd Noh Karsiti
Bashir Mohamad

Sponsors:

Tourism Malaysia
Malaysia Airlines
IEEE Malaysia Section

Conference Website:

More details are available in the following conference website:

<http://www.cairo.utm.my/icmt2005/>

Anyone can download the author's kit and the registration form of the conference from the website.

Conference Fees:

The conference fee includes registration, proceedings, banquets and tours.

Classification	Early	Late
All attendee (including speaker)	320 USD	370 USD
Student attendee (including speaker)	220 USD	270 USD
Banquet fee for an additional guest	40 USD	40 USD

Conference Office:

If you have any questions or proposals on ICMT2005, please contact with:

Secretary General:

Rubiyah Yusof
Centre of AI and Robotics (CAIRO)
Universiti Teknologi Malaysia City Campus
54100 Kuala Lumpur, Malaysia
E-mail: icmt2005@utmkl.utm.my
rubiyah@utmkl.utm.my

Program:

December 5 (Mon)	Registration and Welcome party
December 6 (Tue)	Opening ceremony Special speech: "to be invited" Technical sessions International steering committee meeting
December 7 (Wed)	Technical Sessions Banquet
December 8 (Thu)	Industrial tour



Submission Procedure:

Submission with a full-length paper should be sent by 30 June 2005 to the Program Committee Chairman in one of the following ways:

- (1) E-mail submission: send a file in PDF or PS format attached with the e-mail to: icmt2005@utmkl.utm.my with the subject "Papers for ICMT2005"
- (2) Hard copy: send three copies of full-length paper by airmail to the Chairman of the Program Committee
Shamsudin H.M. Amin
Centre of Artificial Intelligence and Robotics
Universiti Teknologi Malaysia City Campus
54100 Kuala Lumpur, MALAYSIA
E-mail: sham@fke.utm.my

Please include a cover page with name, address, affiliations, contact telephone/fax numbers, and e-mail address of the correspondence author, and title of the paper, five keywords to indicate the subject area of the paper, and the technical sessions name for papers.

Deadlines:

Proposal for invited sessions	15 March 2005
Notification of acceptance of invited sessions proposal	15 April 2005
Submission of contributed and invited papers	30 June 2005
Notification of acceptance of contributed and invited papers	20 August 2005
Submission of extended papers for Journal review	30 September 2005
Submission of camera ready manuscripts for the ICMT2005	01 October 2005
Deadline for early registration	01 November 2005

Optional Programs:

The Organizing Committee is now planning the sight-seeing tours after the conference to different places in Malaysia.

Information about Malaysia:

Malaysia has moved towards a pluralist culture based on a vibrant and interesting fusion of Malay, Chinese, Indian and indigenous cultures and customs. Aside from the gleaming glass of the 21st Century, though, Malaysia boasts some of the most superb beaches, mountains and national parks in Asia.



Information about Kuala Lumpur:

The city brings together Malaysia's past and present, its many constituent cultures, and even its remarkable natural treasures, allowing first-time visitors an invaluable opportunity to see Malaysia as a whole before setting off to explore its parts. As the entry point for most visitors and the meeting point of the country's many attractions, Kuala Lumpur is a grand gateway to a fascinating destination.