

CALL FOR PAPERS

21st International Conference on Mechatronics Technology October 20th – 23rd, 2017 in Ho Chi Minh City, Vietnam

Co-organizers

1. Saigon High-Tech Park
2. National Key Laboratory of Digital Control and System Engineering

Honorable Chairs

Dinh Thanh Vu, Huu Loc Nguyen, Thien Phuc Tran – HCMC University of Technology
 Manh Tuan Bui – HCMC Industry and Trade Col.
 Thanh Nam Nguyen – National Key Lab of Digital Control and System Engineering
 Hoai Quoc Le – Saigon High-Tech Park
 Viet Dung Nguyen – HCMC Department of Science and Technology

Conference Chair

Quoc Thanh Truong
 HCMC University of Technology

Conference Co-chair

Hong Tuan Do
 HCMC University of Technology
 Kyoung Kwan Ahn
 University of Ulsan

Technical Conference Chair

Quang Truong Dinh
 University of Warwick

Program Committee

Chair: Tan Tien Nguyen
Co-Chair: Pham Huy Anh Ho
Members: Minh Truong Ngoc Bui
 Nam Ngoc Chi Doan

International Steering Committee

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Canada: Greg Baiden, Yassiah Bissiri
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Germany: Eberhard Manske, Gerd Jäger, Bodo Heinmann, Sergej Fatikow, Heinz Woem
Greece: Kalogiannakis Michail
Hungary: Somlo Janos, Imre J. Rudas
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Japan: Nobuyuki Iwatsuki, Mamoru Mitsuishi, Naoki Asakawa, Tadahiko Shinshi
 Kyoung Kwan Ahn, Soon Young Yang, Byung Ryong Lee, Sun-Kyu Lee
Malaysia: Shamsudin Hj, Mohd Amin
Mexico: Jesús Manuel Dorador-González, José E.V. Soto, Eduardo C. Castaneda
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Singapore: Loke-Chong Lee, Ser-Yong Lim, Danwei Wang, Marcelo H. Ang, Jr
Taiwan: Kuang-Chao Fan, Fang-Jung Shiou, Yung-Tien Liu
Thailand: M. Parnichkun, Nitin Afzulpurker
Turkey: Okyay Kaynak, Dante J. Dorantes-Gonzalez
UK: Robert Parkin, Mike Jackson.
USA: Jay Lee, Oussama Khatib, Kazuo Yamazaki, Chia-Hsiang Menq
Vietnam: Quoc Thanh Truong, Pham Huy Anh Ho, Minh Truong Ngoc Bui, Toan Thang Vu, Trong Doanh Nguyen.

Date

October 20th (FRI) – October 23rd (MON), 2017.

Conference Venue

HCMC University of Technology (Bach Khoa University)
 Address: 268 Ly Thuong Kiet Street, District 10, Ho Chi Minh City, Vietnam.

Scope of the Conference

The aim of this conference is to allow participants an opportunity to discuss, exchange recent development, new ideas and share their research experiences in the field of Mechatronics technology. The conference will be featuring invited speakers as well as consisting of oral presentations and contributed posters covered a wide range of topics and issues on specific themes.

The ICMT is an annual international conference on mechatronics technology that has been successfully held for 20 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, Taiwan, Hanoi, Kuala Lumpur, Mexico City, Ulsan, Sudbury, Cebu City, Osaka Melbourne, Tianjin, and Jeju Island, Taipei, Tokyo, Dalian. 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.

The topics of interest of the ICMT 2017 include but are not limited to the following themes:

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, Sensing and Control
 Robotics, Robot factory, Mobile Robots, Motion control, Intelligent Mechanism, Parallel Mechanisms in Machine Tools, Man-Machine Interfaces, Sensors, Computer Vision and Recognition, Automated Navigation, Modeling, Tele-operation, Intelligent and Advanced Control, Adaptive Control, Artificial Intelligence, Precision Control.
- (2) Smart Actuators and Materials
 Actuators using Functional Fluid, SMA Actuators, Piezo-Electric Actuators, Electro-Static Actuators, Magneto-Strictive Actuators, Smart Materials and Structures.
- (3) MEMS/NEMS and Micro/Nano-Manufacturing
 Precision Mechatronics, Micro/Nano-Electro Mechanical Systems, Opto-Mechatronics, Ultra-High Precision Machining, Focus Ion Beam Manufacturing.
- (4) Precision Measuring Technology
 Dimensional Measurement, Micro/Nano Measurement, Ultra High Precision Positioning, Optical and Laser Technology, Scanning Probe Microscopy Technology, Measurement for Extreme Environments, Precision Instrumentation, Metrology.
- (5) Production Systems
 Automation Science and Technology, Intelligent Machine Tools, Flexible Manufacturing Systems, Agile Manufacturing, Production Planning and Control, Fault Monitoring & Diagnosis, e-Maintenance, e-Manufacturing, Rapid Prototyping, Remote Manufacturing with Internet, Free Form Surface Machining.
- (6) Sustainable Automotive Technologies
 Automotive Hybridization and Electrification, Vehicle Lightweight Materials and Structures, High Power Energy Storage Systems and Integration, Advanced Propulsion Technologies and Energy Saving Options, System Modelling and Real-Time Estimation, Energy Management Strategies and Optimization, Telematics and Big Data Analysis, Smart/Autonomous and Connected Vehicles.
- (7) Renewable Energy and Smart Grid
 Sustainable Energy Resources, Energy Conversion Devices, Control Technologies, Energy Generation.
- (8) Bioengineering and Mechatronics Applications in Life Sciences
 Biosensors, Biochip Manipulation, Medical equipment, Human-Friendly Mechatronics, Human Adaptive Mechatronics, Life Cycle Design, Recycle Technology, Ecological Design and Production.
- (9) Information and Networking
 Network-Based Control Systems, Real-Time Systems, Embedded Systems, Self-Configuring Wireless Sensor Networks.
- (10) Human Resource Development and Education on Mechatronics Technology
 Strategy on Mechatronics Technology, Mechatronics Education, Computer-Aided Instruction, Virtual reality Applications on Education, Policy and Strategy Studies.
- (11) Composite and Polymer Materials

Local Organizing Committee

Chair: Quoc Thanh Truong

Co-Chair: Tan Tien Nguyen

Secretariat: Minh Truong Ngoc Bui, Minh Tri Nguyen, Cong Hung Nguyen.

Members: Cong Thanh Diep Tu, Cong Bang Pham, Nguyen Duy Phuong Tran, Ngoc Hien Do, Thanh Tung Luu, Anh Son Tran, Huy Hoang Pham, Trong Hieu Bui, Duc Hanh Le, Dai Nguyen Tran, Hai Nam Tran, Triet Hung Ho, Pham Huy Anh Ho, Tuong Quan Vo, Duy Anh Nguyen, Quoc Chi Nguyen, Thanh Danh Le, Trong Tai Nguyen, Quoc Nguyen Binh, Cong Binh Phan, Xuan Ba Dang, Thanh Cong Huynh, Huu Tho Nguyen, Huu Nghi Huynh, Thanh Liem Dao.

Technical Sponsors

1. Vietnam National University HCMC.
2. Saigon High-Tech Park.
3. National Key Laboratory of Digital Control and System Engineering.

Conference fees

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

	Early	Late
Regular participant (including speaker)	500 USD	550 USD
Student attendee (including speaker)	300 USD	350 USD
Banquet fee for an additional guest	50 USD	

Optional programs

The Technical works program will be arranged. Additional tourism routes will be announced soon. Tourism services can be arranged depending on the number of interested participants.

Conference Secretariat

For general inquires and concerns or proposals on ICMT2017, please contact the Secretariat of the conference at:

Minh Truong Ngoc Bui
 General Secretary of ICMT2017.
 Mobile: +84 90 677 7975 - +84 90 663 9789
 E-mail: icmt2017@hcmut.edu.vn

Additional information:

Visa applications: We recommend applying for your visa in the Vietnamese Embassy at least one month before the intended travel date to Vietnam. Please refer the following website to look for the nearest Vietnamese Embassy to your location:
<http://www.vnembassy.net/>

Information about Ho Chi Minh City:

- https://en.wikipedia.org/wiki/Ho_Chi_Minh_City
- https://www.tripadvisor.com/Tourism-g293925-Ho_Chi_Minh_City-Vacations.html
- <https://www.lonelyplanet.com/vietnam/ho-chi-minh-city>



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 abstract. Invited session proposals should include a session title, and the abstracts of 5 to 6 papers together with the contact information of the session proposer.

Best paper presentations will be selected and judged from each oral session based on the score of the Technical Session Chair. The certificate for best papers will be awarded during the conference.

Special Publication in Journals

ICMT2017 coordinates with authors and indexed journals to ensure high quality research work could achieve esteemed publication. All high quality accepted papers will be recommended to submit to the SCI/SCIE, EI indexed journals for further consideration and publication according to the participating journal publishing policies and requirements. The following journals have accepted for further paper consideration and publication.

1. Mechatronics (SCI)
2. International Journal of Automation Technology (EI)
3. Exchanges: The Warwick Research Journal (EI)
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Conference Program

October 20 (Fri)	Registration and Welcome party.
October 21 (Sat)	Opening ceremony. Keynote Speeches and Technical sessions. International Steering Committee Meeting.
October 22 (Sun)	Keynote Speeches and Technical sessions. Banquet and Closing ceremony.
October 23 (Mon)	Technical tours.

Important Dates

Submission of session proposals	July 20, 2017
Notification of acceptance of session proposals	July 25, 2017
Submission of 2 pages abstracts	August 15, 2017 (Final Extended)
Notification of acceptance of paper abstracts	August 15, 2017
Submission of full papers (camera ready)	August 25, 2017
Deadline for early registration	September 15, 2017
Conference	October 20, 2017

Conference Website: icmt2017.hcmut.edu.vn

