

**2017 the International Conference on Robotics and Mechantronics
(ICRoM 2017)**

December 12-14, 2017

Hong Kong

Hong Kong Polytechnic University

Add: The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong

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Instructions

Registration Guide

Arrive at the Conference Venue→Inform the conference staff your paper ID→Sign your name on the Participants List→Check your conference materials.

Checklist:

1 receipt, 1 name card, 1 conference program, 1 lunch coupon, 1 dinner coupon, 1 USB (papers collection), 1 computer bag

Devices Provided by the Conference Organizer:

Laptops (with MS-Office & Adobe Reader)

Projectors & Screen

Laser Sticks

Materials Provided by the Presenters:

PowerPoint or PDF files

Duration of each Presentation (Tentatively):

Regular Oral Session: 15 Minutes of Presentation including 2-3 Minutes of Q&A

Notice:

*The organizing committees will provide the lunch and tea breaks on Dec. 12, 13 only.

*Certificate of Listener can be collected in the registration counter.

*Certificate of Presenter can be collected from the session chair after each session.

*The organizer will not provide accommodation, so we suggest you make an early reservation.

*One best presentation will be selected from each session. The best one will be announced when each session ends, and will be awarded by the session chair after each session in the meeting room.

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Welcome Letter

Dear Participants,

Welcome to 2017 the International Conference on Robotics and Mechantronics (ICRoM 2017) ! The objective of 2017 Hong Kong Conference is to provide a premium platform to bring together researchers, scientists, engineers, academics and graduate students to share up-to-date research results.

We are confident that during this time you will get the theoretical grounding, practical knowledge, and personal contacts that will help you build a long-term, profitable and sustainable communication among researchers and practitioners in the related scientific areas.

We wish to express thanks to our distinguished speakers, Prof Meng Joo Er, Prof. Dong SUN, Prof. Pat Wheeler, Prof. Adrian Ioinovici, Prof. Jianguo Zhu, Prof. Shibin Gao and other distinguished scholars for sharing their deep insights on future challenges and trends in the fields of Robotics and Mechantronics .

We would like to thank the committee members for their hard work in making sure a smooth running of this conference. Many thanks to the reviewers for their excellent job to maintain the academic quality and scholarship. Special thanks is expressed to the Hong Kong Polytechnic University, who had kindly given us support.

Hope you could enjoy the conference and have an unforgettable experience in Hong Kong!

Conference Organizing Committees

Agenda Overview

Tuesday December 12

Registration (Foyer).....8:30-9:00

Conference Room: TU201, V316

Tea Break on the foyer, Lunch on Communal Building Core S.

Open Ceremony (TU201).....9:00-9:10

Prof. Eric Cheng, PESA Conference Chairman

Keynote Speech I (TU201).....9:10-9:55



Prof. Adrian Ioinovici

Power Electronics with the Holon Institute of Technology, Israel

*Speech title: Systematic Generation of Smart Grid - Purposed Converters Supplied by
Environmental-Friendly Sources of Energy*

Keynote Speech II (TU201).....9:55-10:40



Prof. Shibin Gao

Southwest Jiaotong University, China

*Speech Title: Defective detection technique and equipment for safe operation of the high-speed railway
pantograph-catenary (6C)*

Group Photo and Tea Break (Foyer).....10:40-11:05

Student Competition Briefing (TU201).....11:05-11:15
(From Joint Conference PESA)

ETD Session I (From Joint Conference PESA) (TU201).....11:15-12:30

Lunch (Communal Building Core S).....12:30-13:45

Session 1 (V316).....13:35-16:10

Tea Break (Foyer).....15:00-15:25

Session 2 (V316).....16:10-18:40

Wednesday December 13

Registration (Foyer).....8:30-9:00

Keynote Speech III (TU201).....9:00-9:45



Prof. Pat Wheeler

Head of Department of Electrical and Electronic Engineering and Director of the Clean Sky JTI Project at the University of Nottingham, UK

Speech title: Electric Superbike Racing – the Design and Construction of a winning Electric Motorbike

Keynote Speech IV (TU201).....9:45-10:30



Prof. Jianguo Zhu

University of Technology, Sydney (UTS), Australia

Speech Title: Robust Design Optimization for High Quality Production of Electrical Machines and Drive Systems

Tea Break (Foyer).....10:30-10:55

Keynote Speech V (TU201).....10:55-11:40



Prof. Dong SUN

City University of Hong Kong, Hong Kong

Speech Title: Micromanipulation and Microrobotics for Cell Surgery

Discussion Forum (From Joint Conference PESA) (TU201).....11:40-12:20

**Student Competition Winner Announcement and Award Ceremony 12:20-12:40
(From Joint Conference PESA)**

Lunch (Communal Building Core S).....12:40-13:40

Keynote Speech VI (V316).....13:40-14:20



Prof Meng Joo Er

Nanyang Technological University, Singapore

Speech Title: Cognitive Robotics: Recent Developments and Futuristic Trends

Session 3 (V316).....14:20-17:10

Tea Break (Foyer).....15:25-15:55

Parallel Sessions

Tuesday December 12			
13:45-15:00	Session 1	Electronic Information Engineering and Application	V316
15:00-15:25	Tea Break		Foyer
15:25-16:10	Session 1	Electronic Information Engineering and Application	V316
16:10-18:40	Session 2	Control Theory and Engineering	V316
9:00-18:40	Poster Session		V316
Wednesday December 13			
14:20-17:10	Session 3	Mechanical Engineering and Robot Development Technology	V316
15:25-15:55	Tea Break		Foyer
9:00-17:10	Poster Session		V316

Thursday December 14

One Day Tour in Hong Kong.....**8:30-19:30**

One day Tour in Hong Kong

Dec. 14, 2017

DELUXE HONG KONG ISLAND(WITH LUNCH)

Duration: Approx. 7 hours (not include hotel pick up time)

Daily Morning Departure

9:00 am gathered in the Hong Kong Polytechnic University and then we will take you to pick-up hotel.

(Please arrive here on time.)

Hotel pick-up time: Approx. 9:50 am - 10:30 am

Hotel: Harbour Plaza Metropolis

With a late morning departure time, this is the perfect tour for those wish to explore Hong Kong famous landmark and try the world famous dim sum lunch at a floating restaurant - **Jumbo Kingdom**.

Itinerary

1 Round Trip Hotel transfer with tour guide

2 Visit famous traditional Chinese temple - Man Mo Temple

3 Ride the 125 years old Peak Tram to the Peak

4 Sky Terrace 428 viewing platform

The highest viewing platform in Hong Kong

5 Visit old Hong Kong - Aberdeen Fishing Village

(Option to ride sampan)

6 Enjoy Dim Sum Lunch at Jumbo Kingdom

World's Largest Floating Restaurant

7 Visit Stanley Market

Shoppers' Paradise for Chinese-Style Souvenirs

8 Access to QTS award TSL jewellery factory

★ Complimentary classic Rickshaw Open Top Bus Ticket will be provided

Explore heritages sites at your convenience

Notice: Tour price include air-conditioned sightseeing coach, guided service, tram ticket to the Victoria Peak, admission to **Sky Terrace 428** and lunch at Jumbo Kingdom.

How to get to the pick-up hotel: Harbour Plaza Metropolis

By taxi: 3 minutes 1.4km



Directions to Hong Kong Polytechnic University

General information:

- Registration Desk : Foyer.
- Conference Rooms: TU 201, V316.
- Tea Break: Foyer.
- Lunch: Communal Building Core S.
- Meeting point for one-day tour is Hong Kong Wong Tai Sin.
- Smoking is strictly inhibited in the campus except dedicated smoking areas.
- A prepared laser pointer can be used for the presentation.