

Robotics Society of Singapore

2017

RSS
Robotics Society of Singapore

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HISTORY

Promoting Friendship and Robots

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History

The discussion on the setup of the Robotics Society of Singapore was triggered by the invitation from Professor Tomomasa Kato, the 2010 President of Robotics Society of Japan, to Prof. Xie Ming. In the invitation, Prof. Xie Ming has been invited to represent Singapore to participate to the annual meeting under the name of Asian Robotics Society Summit. With the help from James Lee and Xu Jin, the scope and vision for Robotics Society of Singapore have been drafted. And, we position ourselves as a professional, and not-for-profit, body which aims at nurturing friendship and promoting robotics among those corporations and individuals who believe that robots will be a big thing to come, to play, and to contribute to the mankind and the modern society. The registration of RSS was approved by the Singapore government on 29 November, 2010 and was given the UEN number, which is T10SS0158F. Since its inception, RSS becomes a member of Asian Robotics Society Union (ARSU) (www.asian-robotics.org). And, RSS will represent Singapore to attend ARSU's annual meetings on regular basis.

Promoting Friendship and Robots

VISION

Vision

To be the premium platform of promoting friendship and robots in Singapore and beyond.

MISSION

Mission

To nurture practice, education, training, innovation and technopreneurship (PETIT) among individuals with passions for robotics science and robotics products in Singapore and beyond.

FOCUS

Focus

Build RSS Society

Grow Membership

Promote R&D Findings

Nurture Entrepreneurship

Serve Communities

STRUCTURE

Structure

Editorial Board

Members

Technical Committees

Members

President + Vice Presidents

Advisors

Treasurer + Deputy treasurers

Secretary General + Deputy Secretary General

RSS-Linked Research Institutes

RSS-Linked High-tech Companies

RSS Robotics Society of Singapore

Editorial Board

World Scientific
Connecting Great Minds

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This Journal

International Journal of Humanoid Robotics

Aims & Scope

The International Journal of Humanoid Robotics (IJHR) covers all subjects on the mind and body of all organisms that are related to and inspired by humanoid robots, including their design, development, implementation contributing to the successful achievement of future robots which not only imitate human beings, but also serve human beings. While IJHR encourages the contribution of original papers which are solidly grounded on proven theories or experimental procedures, the journal also accepts papers on the design, development, and implementation of humanoid robots in the field of robotics. Such papers need not necessarily demonstrate, in the early stages of research and development, the full potential of new findings on a physical or virtual robot.

IJHR welcomes original papers in the following categories:

- Research papers, which disseminate scientific findings contributing to solving technical issues arising in the development of humanoid robots, or biologically-inspired robots, having unique or novel features, such as other physical capabilities (i.e. mobility or mental capabilities (i.e. intelligence))
- Review articles, which describe, in non-technical terms, the latest in basic theories, principles, and algorithmic solutions
- Technical notes, which describe, in non-technical terms, the latest significant achievements and the future trends in robotics R&D
- Papers on curriculum development in humanoid robot education
- Book reviews

Online Ready
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- A Torque-Moving Balance Control Method for a Walking Biped Robot Subject to External Continuous Forces
- Vol. 12 , Iss. 01
- Advantage of Crab-Walking Gaits
- Vol. 12 , Iss. 01
- Nonrhythmic-Based

SCI/SCIE Journal

Promoting Friendship and Robots

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Technical Committees

- Committee of Industrial Robots
- Committee of Service Robots
- Committee of Medical Robots
- Committee of Special Robots

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RSS-Linked Research Institutes

- Nanyang Technological University
- National University of Singapore
- Singapore University of Technology and Design
- Temasek Polytechnique
- Nanyang Polytechnique
- Harbin Institute of Technology
- Shanghai Jiatong University
- Beijing Institute of Technology

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RSS-Linked High-tech Companies

- Humanoid Robotics Co.
- SMAROBOT Co.
- Super Robots Co.
- GT Robots Co.
- NanjingTech Robots Co.
- Vision Robots Co.
- RoboYes Co. (to be registered)

Promoting Friendship and Robots

ACTIVITIES



ICRA2017
May 29 - June 3, 2017 • Singapore



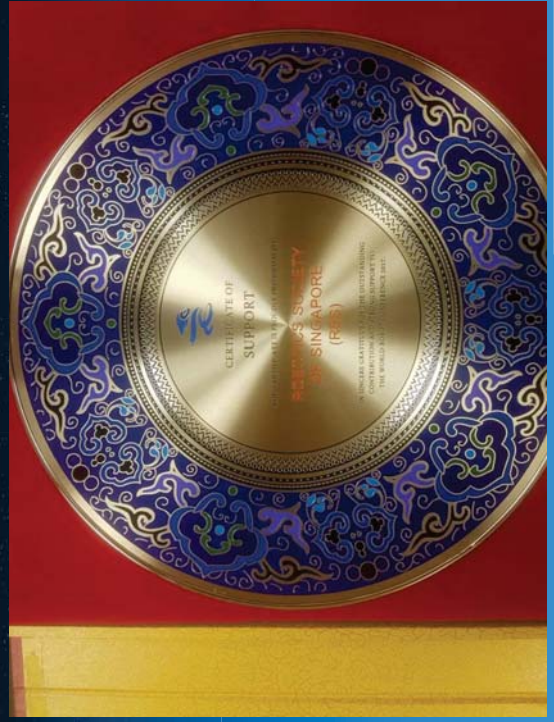
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2017: World Robot Congress



2017: Education & Training

Introduction to Robotics and Sensors

ADMISSION IS FREE

Robotics is a multi-disciplines skill that integrates Science, Technology, Engineering and Mathematics (STEM). Our objective is to work closely with schools to provide robotics enrichment workshop, to inspire and motivate students through building robot and program coding. Our mission is to develop student's problem solving and analytical skill, and to promote lifelong learning in robotics applications.

Workshop Description

This workshop is free-of-charge and is open to Secondary, ITE and Polytechnic students in Singapore. Participants will learn how to assemble a Arduino based RoboCar, write coding program, read sensors data, control motion, perform desirable avoidance, etc.

Schedule : 5 hrs workshop

Sep 2017. Total 5 similar sessions. You may select a suitable date to attend.

Date	Time
Tue, 5 Sep 17	12pm to 5pm
Wed, 6 Sep 17	12pm to 5pm
Thu, 7 Sep 17	12pm to 5pm
Fri, 8 Sep 17	12pm to 5pm
Sat, 16 Sep 17	12pm to 5pm

What Participants will have upon completion of this workshop

- A RoboCar kit and training materials for your continuous self learning.
- Participants will also receive a certificate of attendance issue by Robotics Society of Singapore.

Registration Details

Please visit <http://robotssing.org> for details and to confirm your registration. Seats are limited, registration will be on a first-come first-served basis.

Workshop Venue:
Level 2, Room 2-2, Lifelong Learning Institute, 11 Eunos Road 8, Singapore 408601.

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College of Professional and Continuing Education

Programme Evaluation Report

Event: Technology Innovation

Date: 17 to 21 July 2017

No. of participants: 34

No. of participants completed the Evaluation Form: 34

Rating scale: 1 = Strongly Disagree, 5 = Strongly Agree

Rating scale: 1 = very poor, 5 = very good

(1) Trainers

Lecture 1: Robotics and Artificial Intelligence

by Assoc Prof Xie Ming

The course contents were relevant and useful.

The course materials were well organised, well written and easy to follow.

The trainer was knowledgeable about the topic.

The trainer was well prepared.

The trainer communicated the course contents effectively.

The trainer answered questions in a complete and clear manner.

The trainer was able to stimulate and maintain interest as well as encourage participation.

The pace of the trainer's delivery was appropriate.

Average Rating

The course contents were relevant and useful.	4.76
The course materials were well organised, well written and easy to follow.	4.53
The trainer was knowledgeable about the topic.	4.94
The trainer was well prepared.	4.88
The trainer communicated the course contents effectively.	4.68
The trainer answered questions in a complete and clear manner.	4.65
The trainer was able to stimulate and maintain interest as well as encourage participation.	4.59
The pace of the trainer's delivery was appropriate.	4.33

Date and Time: October 23, 2017 (Monday) at 14h00

Visitors:

- Huang, Shih-Chang, Assistant Research Fellow, Acting Deputy of the Third Research Division, Chung-Hua Institution Economic Research
- Wei, Tsung-Che, Associate Research Fellow of Third Research Division, Chung-Hua Institution Economic Research

Questions of this interview:

1. What is the approach of "ROBOTICS SOCIETY OF SINGAPORE" to promote the application of AI and robot strategy in service or manufacturing fields?
2. How do you think about the competition between Singapore's AI and robot enterprises with "Westerners" such as Google, IBM, Facebook and Microsoft?
3. What is the business model and expected effect of AI and robot that applied in Singapore's service or manufacture industries?
4. Is there something disturbed by existing laws and regulations when applying AI and robot technology to the service or manufacture industries, transportation system, healthcare field? If so, how do you think about the solution by promoting the deregulation or "Sand Box" policies?
5. After industry introduces AI and robot, people's work is superseded and the unemployment rate rises. In other words, the development of AI and robot technology is causing social security and unemployment problems. What do you think about this problem and solutions? And how do you think about the talent transformation strategy (human resources strategy) in Singapore?
6. How do you think about the collaboration between Singapore and Taiwan regarding the business model of applying AI robot in service or manufacture industries?