

2011 IEEE International Conference on Robotics and Biomimetics

December 7-11, 2011, The Mövenpick Resort and Spa Karon Beach, Phuket Island, Thailand

Wednesday, December 7, 2011

12:00 - 18:30	Registration Desk Open	
16:00 - 16:15	Opening Ceremony	(Ballroom II&III)
16:15 - 17:30	Keynote Talk I Blind Spot of Biomimetic Approach	
	<i>Makoto Kaneko, Osaka University, Japan</i>	
	Keynote Talk II Peripheral Nerve Interface Device for Robotic Arms	
	<i>William C. Tang, University of California, Irvine, USA</i>	
	<i>Chair: Aiguo Ming</i>	

Thursday, December 8, 2011

08:30 - 9:30 Plenary Talk I: MEMS Robotic Inchworm for Cortical Neural Prosthesis								
<i>Yu-Chong Tai, California Institute of Technology, USA</i>								
<i>Chair: Wen J. Li</i>								
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	
09:45 - 11:00	TA1-1 Interfaces for Teleoperations	TA1-2 Medical Robotics I	TA1-3 Walking Robots I	TA1-4 Soft Robots	TA1-5 Sensing for Detection and Localization I	TA1-6 Control of Multiple Robots	TA1-7 Biomimetic Control	
Coffee Break								
11:15 - 12:30	TA2-1 Control of Teleoperations	TA2-2 Medical Robotics II	TA2-3 Walking Robots II	TA2-4 Vision for Robot Navigation	TA2-5 Sensing for Detection and Localization II	TA2-6 Motion Planning and Control for Mobile Robots I	TA2-7 Biomimetics I	
Lunch Break								
13:40 - 15:10	TP1-1 Telerobotics for Medical Applications	TP1-2 Medical Robotics III	TP1-3 Walking Robots III	TP2-4 Image Analysis	TP1-5 Sensing for Detection and Localization	TP1-6 Motion Planning and Control for Mobile Robots II	TP1-7 Biomimetics II	TP-P Poster Session I: Robotics
Coffee Break								
15:40 - 17:10	TP2-1 Multiple and Swarm Robots	TP2-2 Medical Robotics IV	TP2-3 Robotic Systems	TP2-4 3D Image Analysis	TP2-5 Sensing for Detection and Localization IV	TP2-6 Motion Planning and Control for Mobile Robots	TP2-7 SLAM	

Friday, December 9, 2011

08:30 - 09:30 Plenary Talk II: A Dance Partner Robot and its Real World Application "PaDY"								
<i>Kazuhiro Kosuge, Tohoku University, Japan</i>								
<i>Chair: Zhidong Wang</i>								
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	
09:45 - 11:00	FA1-1 Grasping and Manipulation I	FA1-2 Medical Robotics V	FA1-3 [OS] The Development Towards Sensory Based Natural Walking Humanoid Robots	FA1-4 Micro/Nano Sensors and Systems	FA1-5 Biomimetic Sensing	FA1-6 Control of Flexible Robots	FA1-7 Flying Robots I	
Coffee Break								
11:15 - 12:30	FA2-1 Grasping and Manipulation II	FA2-2 Assist and Rehabilitation Robotics I	FA2-3 Mobile Robots III	FA2-4 Micro/Nano Actuation and Manipulation	FA2-5 Tactile Sensing	FA2-6 Control of Mobile and Aerial Robots	FA2-7 Flying Robots II	
Lunch Break								
13:40 - 15:10	FP1-1 Grasping and Manipulation III	FP1-2 Assist and Rehabilitation Robotics II	FP1-3 Mobile Robots IV	FP1-4 Vision for Robot Control I	FP1-5 Human Detection	FP1-6 Underwater Robots I	FP1-7 Service Robots	FP-P Poster Session II : Biomimetics
Coffee Break								
15:40 - 17:10	FP2-1 Grasping and Manipulation IV	FP2-2 Assist and Rehabilitation Robotics III	FP2-3 Mobile Robots V	FP2-4 Vision for Robot Control II	FP2-5 Sensor Network	FP2-6 Underwater Robots II	FP2-7 Recent Results Session I	

Saturday, December 10, 2011

08:30 - 09:30 Plenary Talk III: Motion and Pattern Formation of Micro Bio-Robots		
<i>Chih-Ming Ho, University of California, Los Angeles, USA</i>		
<i>Chair: T. J. Tam</i>		

	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7
09:45 - 11:00	SA1-1 Robot Design and Control	SA1-2 Assist and Rehabilitation Robotics IV	SA1-3 Humanoid Robots I	SA1-4 Video Session I: Biomimetics	SA1-5 Motion Measurement and Estimation	SA1-6 Hardware and Software Architecture for Robotics	SA1-7 <i>Recent Results Session II</i>
Coffee Break							
11:15 - 12:30	SA2-1 Motion Control of Robots	SA2-2 Robot Force Control	SA2-3 Humanoid Robots II	SA2-4 Video Session II: Robotics	SA2-5 Sensing for Tracking	SA2-6 Haptics Interfaces	SA2-7 <i>Recent Results Session III</i>
Lunch Break							
13:40 - 15:10	SP1-1 Robot Learning	SP1-2 Novel Actuators I	SP1-3 Mobile Robots I	SP1-4 Mapping	SP1-5 Human-Robot Interaction I	SP1-6 Intelligent Control of Robots	
Coffee Break							
15:30 - 17:00	SP2-1 Modular and Multi-Agent Systems	SP2-2 Novel Actuators II	SP2-3 Mobile Robots II	SP2-4 Vision for Object Tracking	SP2-5 Human-Robot Interaction II	SP2-6 Control for Human-Robot Interaction	
18:30 - 20:30 Conference Banquet (Ballroom II&III)							

Sunday, December 11, 2011

15:00 - 17:00	Workshop: Advances in Robotics and Biomimetics <i>Chair: Yong Yu</i>	<i>(Ballroom II&III)</i>
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* 8 minutes (Speech: 5 minutes, Q&A: 3 minutes) are scheduled for each video presentation

* 15 minutes (Speech: 12 minutes, Q&A: 3 minutes) are scheduled for each oral presentation