

Robotics and Computer Science:

toward
continued
collaboration
between CCNY
and Kyutech

June 18-19, 2018

AV Lecture Room & Learning Agora
Iizuka campus
Kyushu Institute of Technology

Jointly hosted by
School of Computer Science and Systems Engineering
at Kyushu Institute of Technology

and

The Department of Computer Science in the Grove School of Engineering
at the City College of New York

The City College
of New York

The Grove School of Engineering



Kyutech
Kyushu Institute of Technology

Robotics and Computer Science: toward continued collaboration between CCNY and Kyutech

Date: June 18-19, 2018 (Day1 9:20am–4:30pm / Day2 10:00am-3:50pm)

Venue: AV Lecture Room (Oral session) & Learning Agora (Poster session)

lizuka campus, Kyushu Institute of Technology

(680-4 Kawazu, Iizuka-shi, Fukuoka, JAPAN)

Day 1: June 18		
Time	Program	
9:20-9:30	Welcoming remarks	Prof. Eiji HAYASHI (Kyutech) Prof. Akira KAWAGUCHI or Prof. Abbe MOWSHOWITZ (CCNY)
9:30-10:00	Keynote talk (Kyutech)	Individual Adaptation for Assistive Robotics Using Reinforcement Learning Speaker: Prof. Tomohiro SHIBATA (Kyutech)
10:00-10:30	Keynote talk (CCNY)	Query optimization in highly distributed data networks Speaker: Prof. Akira KAWAGUCHI (CCNY)
10:30-10:45	Break	
10:45-11:10	3 contributed talks *20 minutes plus 5 minutes for questions and discussion	Session 1
		Virtualized Adaptable Computing with Elastic Split-memory Virtual Machines Speaker: Prof. Kenichi KOURAI (Kyutech)
Session 2		
Learning Algorithms in Artificial Intelligence for Robotics Speaker: Prof. Stephen LUCCI (CCNY)		
11:10-11:35		Session 3
11:35-12:00		Implementation of Vision-based Autonomous Following Robot with Two Spherical Image Cameras Speaker: Prof. Shuichi ENOKIDA (Kyutech)
12:00-2:00	Lunch	*Posters on display in Learning Agora
2:00-2:25	4 contributed talks *20 minutes plus 5 minutes for questions and discussion	Session 4
		Multi-Resource Allocation for Cloudlet-based Mobile Cloud Computing System Speaker: Prof. Myung LEE (CCNY)

2:25-2:50	4 contributed talks *20 minutes plus 5 minutes for questions and discussion	Session 5
		Computational Illumination for Material Classification and Editing Speaker: Prof. Takahiro OKABE (Kyutech)
2:50-3:15		Session 6
		Structural Interpretation of the Roots of Graph Polynomials Speaker: Prof. Abbe MOWSHOWITZ (CCNY)
3:15-3:40		Session 7
		Resilient Edge Network for Local Production and Consumption of Spatio-Temporal Data Speaker: Prof. Kazuya TSUKAMOTO (Kyutech)
3:40-3:50	Remarks from Dean	Prof. Seiji KAJIHARA (Kyutech)
3:50-4:30	Poster session	*Workshop attendees will have an opportunity to view the posters and discuss the work with students.
5:30-7:00	Welcome Party	President Yuji OIE (Kyutech)

Day 2: June 19		
Time	Program	
10:20-10:45	4 contributed talks *20 minutes plus 5 minutes for questions and discussion	Session 1
		Visibility assisted indoor navigation — Experiments and Applications Speaker: Prof. Huy VO (CCNY)
10:45-11:10		Session 2
		Mobile Activity Recognition and Bigdata in Medical and Caregiving Domains Speaker: Prof. Sozo INOUE (Kyutech)
11:10-11:35		Session 3
		Smart & Accessible Transportation Hubs and SRGANs For Crowd Analysis Speaker: Mr. Gregory OLMSCHENK (CCNY)
11:35-12:00		Session 4
		Artificial Immune System Based Approach to Cyber Attack Detection Speaker: Prof. Tarek SAADAWI (CCNY)

12:00-2:00	Lunch	*Posters on display in Learning Agora
2:00-2:25	4 contributed talks *20 minutes plus 5 minutes for questions and discussion	Session 5 Indoor localization based on BLE signal mapping Speaker: Dr. Brahim BENAÏSSA, Prof. Kaori YOSHIDA (Kyutech)
2:25-2:50		Session 6 Joint Time Synchronization and Localization in Mobile Underwater Sensor Networks Speaker: Prof. Zheng PENG (CCNY)
2:50-3:15		Session 7 Effective Multimodal Computing in Biomedical, Civil, Military and Medical Applications Speaker: Prof. Jie WEI (CCNY)
3:15-3:40		Session 8 Toward development of flying robots like birds flapping high into the blue sky Speaker: Prof. Hiroshi OHTAKE (Kyutech)
3:40-3:50		Closing remarks