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

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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)

Iizuka 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)
11:10-11:35		Session 2 **Learning Algorithms in Artificial Intelligence for Robotics** Speaker: Prof. Stephen LUCCI (CCNY)
11:35-12:00		Session 3 **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)

Time	Program	
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)
3:50-4:30	**Poster session**	*Workshop attendees will have an opportunity to view the posters and discuss the work with students.
4:30-4:40	**Remarks from Dean**	Prof. Seiji KAJIHARA (Kyutech)
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 BENAISSA, 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**	