IROS 2019 Workshop on Intelligent Robot Interaction with the Anatomy (Schedule)

Date: Friday, November 8th

Location: Room L1-R3

Session I: Chair: Prof. Long Wang

8:50-9:00	***Welcome***	
9:00-9:30	***Keynote 1***	*Medical Robotics - Levels of Autonomy and Associated Challenges* **Prof. Guang-Zhong Yang**
9:30-9:50	***Talk 1***	*Exploring Autonomy in Robotic Colonoscopy* **Prof. Pietro Valdastri**
9:50-10:10	***Talk 2***	*Tissue Interaction within an Autonomous Surgical Robot* **Prof. Paolo Fiorini**
10:10-10:30	***Talk 3***	*Key Technologies, Innovations and Collaborative Research & Development of Medical Robots* **Prof. Lining Sun**
10:30-10:55	***Poster Spotlight*** 1-6 (four minutes each presentation)	
10:55-11:10	***Coffee break***	

Session II Chair: Prof. Jaesung Hong

11:10-11:40	***Keynote 2***	*Steerable Robotic Systems for Surgical Interventions* **Prof. Jaydev P. Desai**
11:40-12:00	***Talk 4***	*Pneumatically-driven Surgical Robot with Force Feedback* **Prof. Kenji Kawashima**
12:00-12:20	***Talk 5***	*Human-centered Surgical Robotics with Compliance Modulations and Delicate Sensing* **Prof. Hongliang Ren**
12:20-13:00	***Poster Spotlight*** 7-13 (four minutes each presentation)	
13:00-14:10	***Lunch break & Poster Interactive session***	

Session III: Chair: Prof. Micheal Yip

14:20-14:40	***Talk 6***	*Image-based Sensing and Control for Robotic Surgery* **Prof. Yun-hui Liu**
14:40-15:00	***Talk 7***	*Towards a General Robotic Surgical Platform for Multi and Single Port Laparoscopy* **Prof. Kai Xu**
15:00-15:20	***Talk 8***	*High Rigidity Bone Endoscopic Surgery Robot* **Prof. Jaesung Hong**
15:20-15:40	***Talk 9***	*dVRL: daVinci Reinforcement Learning Framework for learning Transferable Surgical Skills* **Prof. Michael Yip**
15:45-16:00	***Coffee break***	

Session IV: Chair: Dr. Bidan Huang

16:00-16:20	***Talk 10***	*Toward Autonomous Steerable Medical Robots* **Prof. Ron Alterovitz**
16:20-16:40	***Talk 11***	*From Tool to Assistant: Developing Adaptive Surgical Robots for the Operating Room* **Prof. Ann Majewicz Fey**
16:40-17:00	***Talk 12***	*Surgical Robots Interacting with Anatomy: A Thirty Year Perspective* **Prof. Russ Taylor**
17:00-17:20	***Talk 13***	*Continuum Robots for Intelligent Interaction with the Anatomy* **Prof. Nabil Simaan**
17:20-17:45	**Discussion + Break**	
17:45-18:00	Best poster award presentation (Evaluation Committee)	
18:00	***Close the workshop***	