

Indo-Korea Joint Workshop on Robotics

Time & Place: March 22-23, 2017, Senate Hall, IIT Delhi, New Delhi, India

March 22 09:30~10:00	Arrival and Registration: In front of Senate Hall, IIT Delhi	
10:00~10:50	Opening Ceremony <ul style="list-style-type: none"> • Welcome Remarks by Prof. M. Balakrishnan, Deputy Director (S&P), IIT Delhi • Opening Remark by Mr. Wonho Choi, DG of International Cooperation Bureau, MSIP, Rep. of Korea • Congratulatory Message by H.E. Mr. Hyun Cho, Ambassador of the Republic of Korea, New Delhi • Inaugural Remarks by Prof. Ashutosh Sharma, Secretary, DST, Govt. of India • Introduction to the concept of Virtual Network Center (VNC) and Vote of Thanks by Prof. S.K. Saha 	Moderator : Prof. S.K. Saha and Dr. Sunil Jha
10:50~11:10	Photo Session (Next to IIT Delhi's Main Security Office)	
11:15~12:15	Keynote Addresses (Theme: Strengthening Plan for Robotics R&D through Korea-India Partnership) <ul style="list-style-type: none"> • Prof. S. Chaudhary, CSIR-CEERI, Pilani Title: Robotics as Integral Component in Cyber Physical System • Prof. Seul Jung, Chungnam National University Title: Introduction to Robotics Research at CNU for Possible Joint Capstone Design and Research 	Moderator: Prof. Kolin Paul
12:15~13:45	Lunch (Faculty Guest House)	
14:00~15:20	Presentation by researchers from Korea-India	
	<p>Korean-1: Prof. Jung-Min Yang, Kyungpook National University Title: Development and Control of Multi-Functional Hyper-Redundant Robots</p> <p>Indian-1: Prof. G.C. Nandi, IIIT Allahabad Title: Solving Biped Locomotion Challenges using Computational Theoretic Approach</p> <p>Korean-2: Prof. Jae-Woo Lee, Konkuk University Title: Wing Morphing Technology for Autonomous Flying Robot</p> <p>Indian-2: Prof. P.M. Pathak, IIT Roorkee Title: Fault Tolerant Control of a Quadruped Robot for Free Swinging Failure</p>	Moderator: Prof. S. Jung 20 min. for each (*15 min. presentation followed by 5 min. Q&A)
15:30~16:00	Tea Break	
16:00~17:20	<p>Indian-3 Prof. Ashish Dutta, IIT Kanpur Title: Design, Control and Experimentation of a Hand Exoskeleton on Stroke Patients</p> <p>Korean-3: Prof. Suk Ho Park, Daegu Gyeongbuk Institute of Science & Technology Title: : Biomedical Micro/Nano Robotics</p>	Moderator: Dr. S. Bhasin

	<p>Indian-4 Dr. Soumen Sen, CSIR-CMERI, Durgapur Title: Variable Impedance Actuation---From Biomimetics to Emergence of Soft Robots</p> <p>Korean-4: Prof. Byungkyu Kim, Korea Aerospace University Title: Micro Robots for Capsule Endoscope</p>	
17:30~18:30	<p>Free Discussion & Networking Theme: Setting up of Indo-Korea Virtual Network Center on Robotics</p>	Moderator: Mr. Rajiv Kumar
19:00~	Dinner (Faculty Guest House)	
March 23	Schedule	
10:00~12:00	<p>Presentation from Korea-India</p> <p>Indian-5 Mr. Parvez Alam, UCAL Chennai Title: Design and Development of Autonomous Amphibious Unmanned Aerial Vehicle with Water Sampling and Assessment Device for Water Based Applications</p> <p>Korean-5: Prof. (Ms.) Varsha Khare, Seoul National University Title: Nanorobotics---Combining Computational and Experimental Aspects in Design and Manufacturing</p> <p>Indian-6 Mr. Suresh Kedia, East Coast Magnets Private Limited, Kolkata Title: Safe Magnetic Gripper for Robots</p> <p>Indian-7: Dr. Swagat Kumar, TCS, Greater Noida Title: Service Robotics---Challenges and Opportunities</p> <p>Indian-8: Prof. K. Issac, IIST, Thiruvananthapuram Title: Space Robotics---IIST Initiatives</p> <p>Indian-9: Mr. Alok Mukherjee, R&DE, Pune Title: Robotics in Military Applications</p>	Moderator: : Prof. Suk Ho Park
12:15~13:45	Lunch (Faculty Guest House)	
14:00~15:00	<p>Robotics at IIT Delhi (10 min each)</p> <p>Indian-10 Prof. Sudipto Mukherjee Title: Pointing with the Hand</p> <p>Indian-11 Prof. Prem Kalra/Dr. Subodh Kumar Title: Immersive Environment for Robotic Tele-operation</p> <p>Indian-12 Prof. I.N. Kar Title: Formation Control of Multiple Robots</p> <p>Indian-13 Dr. Sumantra Dutta Roy Title: Bin Picking with Sensor Fusion</p> <p>Indian-14 Dr. Tapan Gandhi Title: Understanding Cross-modal Sensory Mapping</p>	Moderator: Dr. J.P. Khatait
15:00~15:30	Way Forward: Prof. A. Dutta and Prof. S.K. Saha, Prof. Seul Jung	