



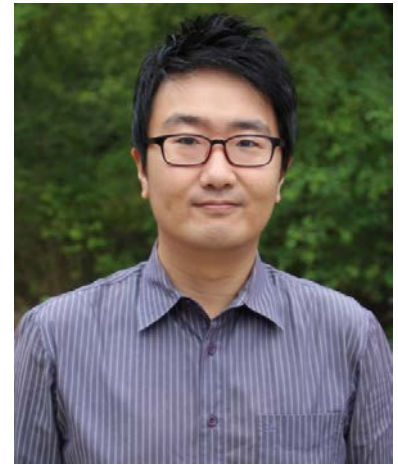
2017 Summer Young Data Science for High Schools

Title: Robotics (Interdisciplinary Discipline) and Its Current Status

By Dr. Kiwon Sohn, University of Hartford

When: 11:00 AM ~ 12:15 PM, July 19, 2017
(Wed)

Where: South Hall 136



Biography

In recent research activities, Dr. Sohn has been focused on “Enabling humanoids to perform various tasks in human-centered environments”. To realize the goal, he has conducted inter-disciplinary researches which cover various fields (bio-mimetic, cognition, artificial intelligence, computer vision, optimization and dynamics). He tried to combine them with state-of-the-art hardware. Current platforms are full-sized humanoid robot, Hubo+, DRC-Hubo1 and 2. He has been working directly with the Hubo platform since 2011. Dr. Sohn received a PhD from MEM, Drexel University in 2014. Academic advisor was Dr. Paul Oh, former National Science Foundation (NSF) Robotics program Director. Recently, he was serving as a Chief of Engineering (COE) in a team DRC-HUBO@UNLV (DRC-Final 2015 Finalist Team) and as a Chief Engineer in a robotics research center DASL@UNLV (Drones and Autonomous Systems Lab). Currently, he is serving as an Assistant Professor in the department of Electrical and Computer Engineering (ECE) in University of Hartford (UHart). He is working on full sized humanoids (Hubo+ and DRC-Hubo) and current research topics include 1) Robot Vision/Perception System Development and its Data Processing and 2) Whole body motion Design and Optimization for vehicle handling tasks. Previously, he served as Task 1 Leader and Hardware Manager of team DRC-Hubo (Drexel) in DRC Trial 2013. Research interest included Machine Learning, Robot Kinematics/Dynamics and Computer Vision. Received a Master of Science degree in School of Engineering and Applied Science, University of Pennsylvania - Philadelphia, PA at 2006. Worked in Kod*lab (GRASP Lab) and built a Sprawl Edubot which is Rhex class small hexapod robot (2006-2008).

Worked in Robotics and Neural Systems Laboratory (RNSL), ECE, University of Arizona (2008-2011). Built a Cognitive robotics Architecture based on Artificial Personality and manufactured a Human Interactive Robot. For more details, please visit Robotics Research Team site.

Contact to Prof. Jeongkyu Lee (jelee@bridgeport.edu) if any question.