Center for Biomimetic Mechanical Systems

CBMS Colloquium on

BIOMIMETIC MECHANICAL SYSTEMS

July 11, 2014

Seoul National University

Bldg.301 Rm.105

Invitation

Center for Biomimetic Mechanical Systems was established in November 2007 at the Institute of Advanced Machinery and Design, SNU, with the support from Korean Government (National Research Foundation of Korea). With the goal of overcoming the current barriers faced by modern mechanical technologies via biologically inspired approaches, the Center aims to understand mechanical structures and functions of natural systems, to fabricate novel biomimetic sensors and actuators, and to develop innovative technologies of fabrication and materials processing. An important step in achieving these goals is to share the ever-evolving knowledge in the fields of biologically inspired sciences and engineering. Therefore, the Center is hosting a summer colloquium under a specific topic that varies each year. I invite you to participate in this year's summer colloquium with the internationally renowned researchers, organized under the general theme of Bio-inspired robotics. This full-day series of talks will provide the most updated research trends in the field. The Center sincerely thanks Seoul National University, Biomimetic Robot Research Center, and NRF for providing us with the financial support to make this event possible.

Professor Yoon-Young Kim
Director of IAMD, SNU

Registration

Those interested in attending this colloquium are kindly requested to e-mail (Jun-Young Lee, ljy.onefineday @snu.ac.kr) their names, titles and affiliations so that the nametags may be prepared in advance.

Venue

Building 301, Room 105
Seoul National University
1 Gwanak-ro, Gwanak-gu, Seoul, Korea

Program

9:00 - 9:20 **Registration**

9:20 - 9:30 **Prof. Yoon-Young Kim** *Seoul National University*
Welcoming remarks

Session I. Morning Session

Chair: Prof. Dong-Jun Lee (SNU)

9:30 - 10:30 **Prof. Mark R. Cutkosky** *Stanford University*
Bio-inspired robot design at Stanford

10:30 - 10:50 **Coffee break**

10:50 - 11:20 **Prof. Kyu-Jin Cho** *Seoul National University*
Flea inspired jumping mechanism and jumping on water

11:20 - 11:50 **Prof. Frank Chongwoo Park** *Seoul National University*
The role of attention in the generation of human and robot arm movement

11:50 - 13:30 **Lunch**

Session II. Afternoon Session

Chair: Prof. Kyu-Jin Cho (SNU)

13:30 - 14:30 **Prof. Ronald S. Fearing** *University of California, Berkeley*
Bio-mimetic millirobots for dynamic locomotion

14:30 - 15:00 **Prof. Jong-Won Kim** *Seoul National University*
Robotic platform design in RoDEL

15:00 - 15:20 **Coffee break**

15:20 - 16:20 **Prof. Paolo Dario** *Scuola Superiore Sant'Anna*
Biorobotics research in Europe

16:20 - 17:20 **Panel Discussion**
Future of bio-mimetic robotics and applications of bio-mimetic technology

17:20 - 17:30 **Prof. Jong-Won Kim** *Seoul National University*
Closing remarks

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