

THE 11TH ANNUAL JOINT WORKSHOP ON CONTROL & POWER ELECTRONICS TECHNOLOGY

Kyungpook National University and Harbin Institute of Technology

19-21 April, 2010

College of IT Engineering

Kyungpook National University, Daegu, Korea

WORKSHOP PROGRAM

IT Bldg.1 Room 313

Opening Ceremony

- 14:00 – 14:10 Welcoming Address by *Professor Jin-Ho Cho*
(Dean, College of IT Engineering, KNU)
- 14:10 – 14:20 Address in Reply by *Professor Sun Xue*
(Vice Dean, School of Electrical Engineering & Automation, HIT)

Session I – Chairman: *Professor Daming Shi (KNU)*

- 14:20 – 14:40 Modeling Method for Power Electronic System Based on Hamilton Principle
*Hongjun Chen**, *Yuanbo Guo* and *Xiaohua Zhang (HIT)*
- 14:40 – 15:00 New Liquid Lens System Using the Modified Injection Mechanism and SMA Actuator
*Hyung-Min Son** and *Yun-Jung Lee (KNU)*
- 15:00 – 15:20 The Dynamical Servo Control Problem for the Acrobot Based on Virtual Constraints Approach
*Hongjun Chen**, *Hongtai Cheng*, and *Xiaohua Zhang (HIT)*
- 15:20 – 15:40 **Coffee Break**

Session II – Chairman: *Professor Hongjun Chen (HIT)*

- 15:40 – 16:00 Nonlinear Fault Reconstruction and State Estimations using Sliding Mode Observers
*Kalyana C. Veluvolu** (KNU)
- 16:00 – 16:20 Flux Weakening Characteristic Analysis of a New Permanent Magnet Synchronous Motor Used for Electric Vehicles
*Kou Baoquan**, *Li Chunyan*, and *Cheng Shukang (HIT)*
- 16:20 – 16:40 A Vehicular Communication System based on IEEE 802.11a/g for Ubiquitous Transportation Sensor Network
*Jeong Kyu Bae**, *Jung Hoon Song*, *Tae Sik Ahn*, and *Dong Seog Han (KNU)*
- 16:40 – 17:00 **Closing Ceremony**

Organized by The College of IT Engineering, Kyungpook National University, Korea
The School of Electrical Engineering and Automation, Harbin Institute of Technology, China

Sponsored by Center for U-Healthcare Convergence Network
Software Technology Research Center
The Institute of Electronic Technology
Underwater Communication/Detection Research Center

Visiting professors of HIT

SUN XUE *Vice Dean*, School of Electrical Eng. & Automation

JIANG SHOUDA *Professor*, Dept. Automatic Measurement & Control

WANG QI *Professor*, Dept. Automatic Measurement & Control

CHEN HONGJUN *Professor*, Dept. Electrical Eng.

KOU BAOQUAN *Professor*, Dept. Electrical Eng.

SUN LEI *Associate Professor*, School of Electrical Eng. & Automation