HCMDSS / MD PnP'09

2nd Joint Workshop on
High Confidence Medical Devices, Software, and Systems (HCMDSS) and Medical Device Plug-and-Play (MD PnP) Interoperability

April 16, 2009
San Francisco, CA
Parc 55 Union Square Hotel

Held in Conjunction with CPSWeek 2009

8:15 – 8:30am	Welcome from Workshop Co-Chairs *Insup Lee, PhD, University of Pennsylvania* *Julian M. Goldman, MD, Massachusetts General Hospital / CIMIT*
8:30 – 9:30am	Keynote Address: *Thomas P. Engel, MD* Medical Director, Applied Medical Informatics Group *University of California Davis*
9:30 – 10:00am	Break
10:00 – 11:30am	**HCMDSS**
10:00 – 10:10am	CPS Projects in the HCMDSS Domain *Insup Lee*
10:10 – 10:35am	Engineering High Confidence Medical Device Software *A. Ray, R. Jetley, P. Jones*
10:35 – 11:00am	A Tool for Designing High-Confidence Implantable BioSensor Networks for Medical Monitoring *S. Gupta*
11:00 – 11:15am	An Event Driven Framework for Assistive CPS Environments *F. Makedon, Z. Le, H. Huang, E. Becker*
11:15 – 11:30am	Safety Enhancements of Home Lift, Position, & Rehabilitation (HLPR) Chair *J. Zalewski, D. Guo, C. Csavina, J. Sweeney, R. Bostelman, K. Kirsner*
11:30am – 12:30pm	Lunch

12:30 – 2:15pm	**MD PnP**

12:30 – 12:45pm	MD PnP Update *Julian M Goldman*

12:45 – 1:10pm	A Concept for a Medical Device Plug-and-Play Architecture based on Web Services *S. Pöhlsen, S. Schlichting, M. Strähle, F. Franz, C. Werner*

1:10 – 1:35pm	A Publish-Subscribe Architecture and Component-based Programming Model for Medical Device Coordination and Integration *A. King, S. Procter, D. Andresen, J. Hatcliff, S. Warren, W. Spees, R. Jetley, P. Jones, S. Weininger*

1:35 – 2:00pm	A Modular Framework for Clinical Decision Support Systems: Medical Device Plug-and-Play is Critical *M. Williams, F. Wu, P. Kazanzides, K. Brady, J. Fackler*

2:00 – 2:15pm	Standards for Physiological Data Transmission and Archiving for the Support of the Service of Critical Care *J.M. Eklund and C. McGregor*

2:15 – 2:30pm	Break

2:30 – 4:00pm	**Panel: R&D Collaboration Opportunities in HCMDSS and MD PnP** *Moderator: Insup Lee* Panelists: *Helen Gill*, NSF, *Paul Jones*, FDA, *Lui Sha*, University of Illinois

4:00 – 4:30pm	Break

4:30 – 5:15pm	**Medical Networks**

4:30 – 4:45pm	Monitoring and Diagnosis of Networked Medical Hardware and Software for the Integrated Operating Room *S. Bohn, M. Lessnau, O. Burgert*

4:45 – 5:00pm	Wireless Health and the Smart Phone Conundrum *J. Woodbridge, A. Nahapetian, H. Noshadi, M. Sarrafzadeh, W. Kaiser*

5:00 – 5:15pm	Flexible RFID Location System Based on Artificial Neural Networks for Medical Care Facilities *H-J. Wu, Y-H. Chang, I-Ch. Lin, M-Sh. Hwang*

5:15 – 5:20pm	Workshop Wrap-up & Adjourn

5:20 – 6:00pm	Break / Mini-Reception

6:00 – 8:00pm	Clinical Requirements Session *Moderator: Julian M. Goldman, MD*