The COMMUNICATIONS AND DIGITAL SIGNAL PROCESSING (CDSP) CENTER
FOR RESEARCH AND GRADUATE STUDIES

“Virtual Rehabilitation and Health”

25th ANNUAL CDSP RESEARCH WORKSHOP Friday,
March 28th, 2014 Curry Student Center Ballroom
TECHNICAL PROGRAM

8:30 AM – 9:00 AM ARRIVAL, REGISTRATION & CONTINENTAL BREAKFAST

9:00 AM - 9:10 AM WELCOMING REMARKS
Miriam Leeser, CDSP Director
Sheila Hemami, Chair, Electrical & Computer Engineering

9:10 AM – 9:40 AM Amee L. Seitz, PhD, DPT, Assistant Professor, Physical Therapy, Movement & Rehabilitation Science Director, Biomotion Research Laboratory Northeastern University
“Rehabilitation: Past, Current and Future: The Role of Technology”

9:40 AM – 10:10 AM Meghan Huber, PhD Student Bioengineering Northeastern University
“Telerehabilitation: Clinical Potential and Challenges”

10:10 AM – 10:40 AM Dagmar Sternad, Professor of Biology, Electrical and Computer Engineering, and Physics Northeastern University
“Quantifying Motor Learning and Interventions in Virtual Rehabilitation”

10:40 AM – 11:00 AM COFFEE BREAK (20 minutes)

11:00 AM-11:30 AM Raymond Fu, Assistant Professor, Department of Electrical & Computer Engineering Northeastern University
“Visual Sensing of Dynamic Behaviors for Exercise-based Rehabilitation”

11:30 AM-12:15 PM Hermano Igo Krebs, Principal Research Scientist & Lecturer, Massachusetts Institute of Technology Department of Mechanical Engineering, Adjunct Professor Department of Neurology and Division Rehabilitative Medicine University of Maryland, School of Medicine
“MIT Rehabilitation Robotics for Upper and Lower Extremity and the Role of Serious-Games”

12:15 PM-1:30 PM POSTER SESSION/LUNCH

1:30 PM-2:15 PM Kamal Jethwani MD, MPH Corporate Manager - Research and Innovation, Partners Center for Connected Health, Instructor in Dermatology, Harvard Medical School
“Engaging Patients Through Interactive Tele-Rehabilitation”

2:15 PM- 2:45 PM Holly Jimison, PhD, FACMI Professor of Practice, College of Computer & Information Science and School of Nursing Northeastern University
“Coaching Technology for Delivering Health Interventions to the Home”

2:45 PM- 3:15 PM Misha Pavel, PhD Professor of Practice, College of Computer & Information Science and Bouve College of Health Sciences Northeastern University
“Virtual Technology for Interactive Exercise for Older Adults in the Home”

CLOSING REMARKS and AWARDS