

The 3rd WristSense Panel for Discussion Regarding How to Establish Objective Gold Standard Measurements for Health Constructs

Nabil Alshurafa*, Archan Misra[†], Abhishek Mukherji[‡]

*Northwestern University, [†]Singapore Management University, [‡]Accenture Inc.
nabil@northwestern.edu, archanm@smu.edu.sg, abhishek.a.mukherji@accenture.com

Abstract—With the increasing consumerization of wrist-worn devices, the wrist remains a major contender for tackling problems related to health and medicine. Currently physical and sedentary activity are the only constructs with acceptable gold standard passive sensing measures (e.g. Actigraph measuring MVPA and Actipal measuring types of sedentary activity). This WristSense panel continues the discussion to change that. WristSense 2018 comprised of panelists Dr. Claudio Bettini (University of Milan, Italy), Dr. Adam Haim (NIMH - USA), and Dr. Andreas Lymberis (European Commission - Belgium). The panel in 2019 comprised of Dr. Koji Yatani (Univ. of Tokyo, Japan), Dr. Sozo Inoue (Kyushu Institute of Technology, Japan), Avik Ghose (TCS Research Innovation, India), and Dr. Andreas Lymberis (European Commission - Belgium). We plan to continue the panel in 2020 and are putting together a unique panel discussion comprising of key individuals across academia, industry and government agencies surrounding "Defining Objective Gold Standard Measures for Health Outcomes". Our goal is to engage the research community to identify a vision moving forward for technologist, behaviorist, engineers, and mHealth specialist.

I. PANELISTS

- 1) Adam J. Haim, Ph.D., Division of Services and Intervention Research, National Institute of Mental Health, National Institutes of Health, USA, Email: haima@mail.nih.gov
- 2) Wendy J. Nilsen, Ph.D., Acting Deputy Division Director, Industrial Innovation and Partnerships Division, Engineering Directorate, National Science Foundation, Email: wnilsen@nsf.gov
- 3) Dr. Nabil Alshurafa, Assistant Professor, Director, HABits Lab, Department of Preventive Medicine, Feinberg, Department of Computer Science (courtesy), McCormick, Department of Electrical and Computer Engineering (courtesy), McCormick, Email: nabil@northwestern.edu Northwestern University