

Preface

Our symposium focuses on “data driven wellness” which derives behavior change of our daily life starting from self-tracking of our health. For example, when we know our genome information (for example, a possibility of being diabetes) from our saliva (that is., self-tracking), our mind change to not to eat high-calorie foods or start running to keep or lose our weight (that is, behavior change). Such an important stream of improving our health is promoted owing to a lot of data of our health (that is, data driven wellness) acquired by current technologies (that is, calories calculation by smart phone), and these streams contribute to creating society or social activities on health improvement (that is, society or social activities that supports diabetes patients). Our symposium explores such AI technologies and discusses possible solutions for our wellness.

The scope of our interested include, but are not limited to, the following topics:

1. *Self-tracking technology*: sleep monitoring, diet monitoring, vital data, diabetes monitoring, running/sport calorie monitoring, personal genome, personal medicine, new type of self-tracking device, portable mobile tools
2. *Behavior change analysis and platform*: behavior change/activation, awareness/mindfulness, citizen science platform (quantified-self, DIY trials), compassion, calming technology, health care communication, science discovery
3. *Cognitive and biomedical modeling*: brain science, physiological modeling, biomedical informatics, systems biology, network analysis, mathematical modeling
4. *Data driven wellness and collective intelligence*: data mining and knowledge modeling for wellness, collective intelligence/ knowledge, life log analysis, case studies, data visualization, human computation
5. *Wellness service applications and field study*: medical recommendation system, care support system for aged person, web service for personal wellness, games for health and happiness, life log applications, disease improvement experiment (for example, metabolic syndrome, diabetes), sleep improvement experiment.

Invited speakers at the symposium include Koichi Hashida, National Institute of Advanced Industrial Science and Technology (Japan) and Chirag Patel, Stanford University (USA).

Takashi Kido and Keiki Takadama
Symposium Cochairs