WristSense 2019 Keynote: Interactive Technology for Personal Healthcare Applications

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Abstract—**Personal healthcare technology empowers users to record and track their own health-related information for preventing diseases. But many in-home activities and scenarios remain under-explored for personal healthcare technology. Interactive Intelligent Systems Lab led by Koji Yatani is investigating interactive technology that can exploit unique sensing opportunities and offer convenient sensing. In this talk, I present three latest research projects in this area, a plaque-aware toothbrush, opportunistic sensing in fingerprint authentication, and an alcohol-sensitive smart ice cube, and discuss future opportunities.**

I. Speaker bio

Dr. Koji Yatani (http://yatani.jp) is an Associate Professor and 2017 UTokyo Excellent Young Researcher at The University of Tokyo, where he leads Interactive Intelligent Systems Laboratory (http://iis-lab.org). His main research interests lie in Human-Computer Interaction (HCI) and ubiquitous computing. His current research emphasis lies in development and evaluations of biometrics security systems with concurrent physiological sensing; productivity/creativity support; and assistive technology design for social activities. He received multiple Best Papers and Honorable Mention Awards at CHI and MobileHCI. He also contributed to major international conferences in the field of HCI and ubiquitous computing, including CHI, UbiComp, UIST, and MobiSys, as a senior conference and/or program committee member. He currently serves as an Editor for Proceedings of ACM Interactive, Mobile, Wearable and Ubiquitous Technology (PACM IMWUT), an Associate Editor for ACM Transactions on Computer-Human Interaction (TOCHI), and as a Vice chair for Japan ACM SIGCHI Chapter.