

Cultivating Conversations

A SERIES TO DISCUSS THE ETHICAL AND SOCIAL IMPLICATIONS
OF EMERGING TECHNOLOGIES IN HEALTH RESEARCH

Harnessing Health Signals with Large-Scale Mobile Sensor Data: Applications in Opioid Addiction, Mental Health and Infectious Diseases



Personal and population health applications built on top of large-scale mobile sensor data and computing platforms have a great potential to impact the way we diagnose diseases, track, and manage our health. However, the existing sensing mechanisms often fail to accurately capture and infer syndromic signatures that are indicative of anomalies in internal physiological and behavioral processes at an earlier stage. A mobile sensing system that can harness early syndromic signals at an individual or a community level can pave the way to effective just-in-moment intervention, early screening, and prevention.

VIRTUAL TALK: TUESDAY, MARCH 19, 2024

1:00-2:00 PM

TAUHIDUR RAHMAN, PHD

Tauhidur Rahman is an Assistant Professor in the Halicioğlu Data Science Institute at the University of California San Diego where he directs the Mobile Sensing and Ubiquitous Computing Laboratory ([MOSAIC Lab](#)). His current research focuses on building novel ubiquitous and mobile health sensing technologies that capture observable low-level physical signals in the form of an acoustic and electromagnetic wave from our bodies and surrounding environments and map them to relevant biological and behavioral measurements. His work has been featured in several US-based and International media outlets including Wall Street Journal, MIT Technology Review, NewScientist, Public Television for Western New England, Daily Mail (UK) and Hindustan Times (India). His laboratory has been funded by NSF, NIH, DARPA and industry grants.

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