Constructing a Human Digital Twin

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Digital Twins are a disruptive technology that can automate human health assessment and intervention by creating a holistic, virtual replica of a physical human. The increasing availability of sensing platforms and the maturing of data mining methods support building such a replica from longitudinal, passively-sensed data. By creating such a quantified self, we can more precisely understand current and future health status. We can also anticipate the outcomes of behavior-driven interventions. In this talk, I will discuss the challenges that accompany creating human digital twins in the wild, survey emerging data mining methods that tackle these challenges, and describe some of the current and future impacts that technologies have for supporting our aging population.

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(Please be signed in to your Zoom account to join)

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Hosted by David M. Schnyer, Ph.D.

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