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Detecting human behavior from longitudinal data streams

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Abstract: Humans today interact frequently and intensively with a wide range of computing devices. These interactions generate data streams that often offer clues as to their physical and mental states. Analyzing and interpreting these data streams helps intelligent systems to adapt and act according to users needs and to provide personalized services and interventions. This capability, however, introduces new technical and social challenges to be addressed. In this talk, I will describe methods to computationally model human behavior from diverse data streams to assess the state of individuals' health and wellbeing. Through a series of systems I have built, I will also describe how models of human behavior can contribute to the seamless integration of technology into peoples lives and to connect community members for opportunistic social and economic exchange.

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