



## WIRELESS HEALTH: CHALLENGES AND OPPORTUNITIES

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**ABSTRACT:** Wireless Health brings to fruition many opportunities to continuously monitor human body with sensors placed on body or implanted in the body. These platforms will revolutionize many application domains including health care and wellness. They provide new avenues to continuously monitor individuals, whether it is intended to detect an early onset of a disease or to assess the effectiveness of the treatment. In the past few years, the community has observed a large number of wireless health applications that have been developed using wearable computers. Yet, not many have been deployed in a large scale. There are still several challenges that need to be addressed before realizing the ubiquitous use of wireless health systems. In this talk, we will highlight several applications of the wireless health and wearable computers. We will describe several components of the wireless health computing systems and will outline challenges associated with their ubiquitous deployment. We will highlight current research efforts and will discuss future directions.

**BIOGRAPHY:** Roozbeh Jafari is associate professor at UT-Dallas. He received his PhD in Computer Science (UCLA) and completed a postdoctoral fellowship at UC-Berkeley. His research interest lies in the area of wearable computer design and signal processing. His research has been funded by the NSF, NIH, DoD (TATRC), AFRL, AFOSR, DARPA, SRC and industry (Texas Instruments, Tektronix, Samsung & Telecom Italia). He has published over 100 papers in refereed journals and conferences. He has served as technical program committee chairs for several flagship conferences in the area of Wireless Health and Wearable Computers including the ACM Wireless Health 2012, International Conference on Body Sensor Networks 2011 and International Conference on Body Area Networks 2011. He is an associate editor for the IEEE Sensors Journal. He is the recipient of the NSF CAREER award (2012) and the RTAS 2011 best paper award.