

Human-Centric Ubiquitous Sensing and Computing for Health (HUSH)

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Health is a fundamental aspect of our lives that influences our well-being, productivity, and longevity. In recent years, the advent of ubiquitous sensing has opened up new possibilities for monitoring and managing health. Ubiquitous sensing leverages a variety of sensors, often embedded in our everyday environments and devices, to collect a wealth of data about our physical state, behaviors, and surroundings. This data, when processed and analyzed, can provide valuable insights into our health and well-being.

The **Human-Centric Ubiquitous Sensing and Computing for Health (HUSH)** workshop represents a significant stride in the realm of health technology, underscoring the importance of designing health sensing and computing systems that are centered around the needs, behaviors, and contexts of the individuals they serve. By harnessing the power of ubiquitous sensing and computing, HUSH aims to provide personalized, adaptive health monitoring and support. This approach has the potential to revolutionize how we understand and manage health, enabling more proactive, preventive, and personalized care. It could transform everything from chronic disease management to wellness promotion, making health care more effective, efficient, and accessible.

While there have been notable achievements in the field, it's clear that unique challenges still persist. The HUSH initiative is dedicated to tackling these challenges through a blend of interdisciplinary collaboration, innovative thinking, and rigorous research and development. We extend an invitation to researchers and practitioners to participate in this stimulating venture, share their insights, exchange ideas, and collaborate on this cutting-edge frontier of technology. The workshop will cover a range of topics, which include but are not limited to:

- **Multi-modal Sensing and Learning:** exploration of signals from multiple modalities and the enhancement of learning strategies for health monitoring.
- **Context-Aware Sensing and Learning:** comprehension and utilization of context information through ubiquitous sensing to improve health monitoring.
- **Adaptive Interfaces:** development of interfaces that can adapt to the health status of users.
- **Interventions:** design of novel interventions for health management through ubiquitous sensing and computing.
- **Privacy and Security:** design of privacy-preserving paradigms or learning frameworks to protect information privacy and security.
- **On-Device Deployment:** efficient model deployment on resource-constrained devices.

Chairs:

Hong Jia, University of Melbourne, Australia

Yongquan Hu, University of New South Wales, Australia

Yang Liu, University of Cambridge, UK

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