

REMOTE MONITORING OF PATIENT VITAL SIGNS FOR PERSONALIZED HEALTHCARE

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Remote vital monitoring has the potential to vastly improve outcomes in assisted living, patient care, rehabilitation, and athletic performance. The emergence of compact sensors coupled with ease of access to wirelessly connected mobile technologies has propelled remote monitoring to the forefront of healthcare. A challenge associated with this field is the filtering of large datasets: for systems to be useful to patients and practitioners data must be both easily accessible and actionable. In this session we will present the development of a suite of real-time wireless biphotonic sensors for connected health. From cuff-less and accurate blood pressure to heart rate and SpO₂, we have developed a full stack remote patient monitoring system that can be used in numerous health and wellness scenarios. In particular we will address issues of reading, transmitting, storing, and analyzing data in the cloud