

Abstract Submitted
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Terahertz Radar for Remote Measurement of Vital Signs CARLA BENTON, ERIK BRYAN, DOUGLAS T. PETKIE — A radar system operating at 228 GHz was used for measuring the displacement of a subject's chest wall due to respiration and heartbeat. Using various signal processing techniques, the signal was cleaned and the respiration rate and heart rate were extracted from the signal. The radar has been able to produce accurate results at a variety of distances and recent improvements to the system and the signal processing have increased its operating range and accuracy.

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