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CMOS Class C amplifier for motion detection

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Abstract

Noncontact detection of human vital signs based on miniaturized Doppler radar systems (DRSs) can be widely used in healthcare and biomedical applications. Although significant progresses have been achieved, a reliable wireless vital signs detection in the presence of large-scale random human body movements remains a technical challenge. This work proposes a cost-effective UWB Doppler radar system for movement detection from a mobile radar platform. The proposed radar architecture concurrently transmits the fundamental signal component (FSC) and it use a Complex Wavelet Transform algorithm for change detection using an Ultra-Wideband (UWB) impulse. CWT based approach is better than the existing method and it takes less response time which is more suitable for detection with high accuracy. Signal Peak Analysis & Time Interval Estimation performed to find out normalized magnitude change detection of signal. UWB

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