

EINLADUNG

zum Vortrag von

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zum Thema

Remote Cardiovascular Diagnostics – Challenges for Machine Learning

Abstract:

Cardiovascular diseases are one of the major causes for death worldwide. Current state-of-the-art medical diagnostics is based on electrocardiography (ECG), ultrasonic Doppler analysis, and auscultation of heart sounds. All these methods require direct skin contact and can only be used for short time monitoring.

Key parameter of the heart's action is the ejected blood volume traveling bore-like as pressure wave through the artery and leading to tiny displacements on the body surface. Microwave interferometry is able to resolve these vibrations with high quality from random body movements in a certain range. The transfer from these Distance data to medical diagnostics is realized by machine learning procedures, offering touch free medical diagnostics with tolerances comparable the common ECG monitoring.

This talk will discuss medical cardiovascular diagnostics based on microwave interferometry showing both, systems concepts as well as signal processing approaches.

Mittwoch, 19.12.2018, 13:45 – 15:15 Uhr
BTU Cottbus – Senftenberg, LG 3A, R. 185

Alle Interessenten sind herzlich eingeladen!