mRADAR

Contactless Monitoring of Vital Signs Using Radar Technology

Early detection of patient deterioration.
Less contact. More accessible monitoring.

What is **mRADAR?**

mRADAR is a developing contactless vital signs monitoring system that uses mmWave radar technology to analyze micro movements of the human body associated with breathing and heart activity.

The solution is being developed based on research and development work carried out by researchers from Gdańsk University of Technology and the Medical University of Gdańsk.

The project is currently at the functional prototype development stage (TRL4 → TRL5).

Potential Applications

- monitoring of cardiac and pulmonary patients
- telemedicine and home care
- elderly care
- respiratory monitoring
- rehabilitation
- intensive care
- screening and primary care

Why Contactless Technology?

0 contact points with the patient

Faster examination setup

Potential reduction of staff workload

Reduced use of consumables

Current **Development Stage**

The project builds upon earlier R&D work focused on the use of radar technology for monitoring respiratory activity and heart function.

- Early functional prototype
- Pilot studies confirming technological feasibility
- Development of signal processing algorithms
- Ongoing work on HR measurement quality and robustness against signal disturbances

Looking for **Clinical & Technology Partners**

We are interested in collaboration in the following areas:

- Clinical consultations
- Pilot deployments
- Further technology development
- Usability testing
- Scientific collaboration

Interested in the technology?

Read the scientific publication

Help us improve mRADAR

Share your expert feedback (2–3 min)

Your feedback will help shape future clinical applications and pilot studies.

mRADAR

INNOKREA

GDAŃSK UNIVERSITY OF TECHNOLOGY

MEDICAL UNIVERSITY OF GDAŃSK

Contact

mRADAR@innokrea.com

mRADAR.eu