

An Introduction to Impedance Cardiography

Katarzyna Tessmer¹,
joint work with Gerard Cybulski², Grzegorz Graff³

¹*Gdańsk University of Technology*

²*Warsaw University of Technology*

³*Gdańsk University of Technology*

Cardiovascular diseases are the leading cause of death worldwide according to the World Health Organisation. Impedance cardiography (ICG) is a noninvasive and safe method to measure changes in the total electrical conductivity of the thorax. ICG is a new approach for monitoring of cardiodynamic parameters such as heart rate, ventricular ejection time, cardiac output and stroke volume. From the ICG signal, four characteristic points can be extracted: B, C, X and O. Next to the electrocardiography (ECG), ICG can be very useful method for analysis of key parameters in cardiovascular system.

- [1] Gerard Cybulski. Ambulatory Impedance Cardiography: The Systems and Their Applications. *Springer* (2011). <https://doi.org/10.1007/978-3-642-11987-3>