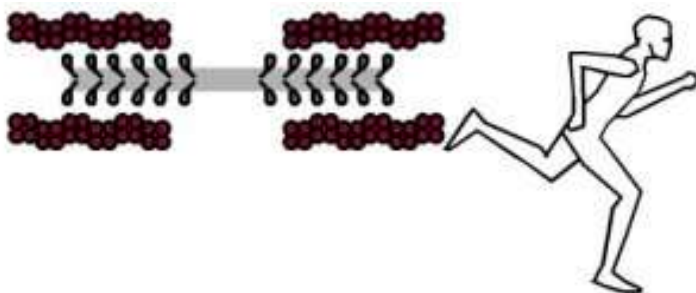


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Detection of swimming activities with an in-ear sensor measuring accelerometry and heart rate data

Cooperation project of the company cosinuss and Exercise Biology (TUM)

Master thesis in sports science

Start: as soon as possible

Project description

In this project, the sensor Cosinuss^o One should be converted into a perfect swimming tracker, giving more information about swimming activities. The main purpose is the detection and validation of heart rate during swimming and 3D-acceleration data analysis.

Main research questions:

- Is it possible to reliably measure heart rate data during swimming with the cosinuss^o One in-ear sensor?
- Is it possible to detect different swimming specific parameters using 3D-acceleration data?

Requirements

Interested in modern techniques, data analysis and swimming.

Supervision

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