Data analysis/Complexity management in interdisciplinary agile medical technology development

Bachelor/Semester/Master Thesis

Project Description
In an interdisciplinary development project in medical technology, a so-called microtiter plate was developed.

A student research thesis deals with the analysis of the collaboration in the development team via system graphs and methods of complexity management and network analysis. For this purpose, existing algorithms are to be applied and thus networks analyzed.

The goal is to identify barriers in the collaboration, especially between simulation and design, and to conduct a workshop for collaboration analysis with industry representatives.

Prerequisites

- ideally experience with graph and matrix-based complexity management (e.g. Python, Gephi, Soley Studio, Loomeo, Matlab)
- good knowledge of German and English
- Independent and structured approach

Type of Thesis

- ☐ Practical
- ☑ Theoretical
- ☐ Experimental

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