Interdisciplinary Project

Competition analysis Software Taekwondo

Competition analysis is an important part of training in Taekwondo. Observation and analysis of tactical behavior make it possible to derive information for your own training control and to develop strategies for competition. In cooperation with the German Taekwondo Union, a pilot project for event data acquisition and analysis in Taekwondo is being implemented. In the context of the research activities of the chair in this area, the following IDP is to be awarded.

Project

In a previous project, two software solutions were developed which 1. allows to collect and 2. allows to analyze event data in Taekwondo. In this project, the work is to be continued. This includes:

- Implementation of various possibilities to visually analyze manually recorded event data
- Calculation and visualization of statistics for quantitative analysis of event data
- Transfer and further development of the existing solution for event data collection in the specially developed software environment

Courses

Participation in the following courses is recommended.

- Grundlagen der Trainingswissenschaft 1 (V, 2 SWS)
- Grundlagen der Trainingswissenschaft 2 (V, 2 SWS)

Framework

All software for the project is programmed in C#. The GUI is based on the Windows Presentation Foundation (WPF) framework. Therefore previous knowledge of the .Net framework is an advantage. Furthermore knowledge in Taekwondo is recommended. A mentor is available at the chair for supervision during the project.

Date to start

Work on the project can start at any time from December 2020. After a kickoff meeting, in which the work is specified and a project plan is worked out, the independent development phase begins with the opportunity to bring in your own creativity.

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