Interdisciplinary Project

Expansion of the table tennis analysis software TUM.TT

In order to characterize performance in table tennis individual plays can be classified by different attributes (e.g. stroke technique, placement). This data is used in both the practical and theoretical performance analysis to make assumptions about the general structure of the sport or to create player profiles as a tactical measure in preparation for competitions. The effective analysis of this data requires intuitive visualizations that display information in a fast and meaningful way.

To this end we are able to offer different interdisciplinary projects to enhance the analytical possibilities of the TUM.TT software (the analytical toolbox of the chair).

- Development of an iOS App of the TUM.TT Viewer
- Software/app development for player profile database
- Software/app to support organisation of coaching in competition

The theoretical part consists of the following lectures at the chair of training science. These courses offer an insight into the scientific foundation of sports as well as of training and competition.

1. Lecture: Grundlagen der Trainingswissenschaft 1 (2 SWS, german)
2. Lecture: Grundlagen der Trainingswissenschaft 2 (2 SWS, german)

The practical part consists of the conception, development and testing of the TUM.TT expansions.

1. Development of the software/software expansion
2. Testing the implementation
3. Documentation of the software

Schedule:

Work on the project can start at any time. After an initial meeting, in which the work is defined in detail and a project plan is developed, the implementation is realized independently. A mentor from the chair will be available throughout the whole project. Lectures and exam take place in SS19.

Got questions? Want to send an application? --> michael.fuchs@mytum.de