



**FACULTY
OF INFORMATION
TECHNOLOGY
CTU IN PRAGUE**

ASSIGNMENT OF BACHELOR'S THESIS

Title: A statistical evaluation of player or team performance
Student: Vojtěch Jindra
Supervisor: MSc. Juan Pablo Maldonado Lopez, Ph.D.
Study Programme: Informatics
Study Branch: Knowledge Engineering
Department: Department of Applied Mathematics
Validity: Until the end of winter semester 2018/19

Instructions

The thesis deals with the problem of estimating team performance and individual player skill ranking from match outcomes.

The main objectives of the thesis are:

- 1) Perform a review of the literature and state-of-the-art algorithms for estimating and ranking of performance and skill of teams and individual players from the source data of match outcomes.
- 2) Improve and adapt these algorithms for soccer games.
- 3) Develop a standalone software library providing a consistent API to these algorithms.
- 4) Perform evaluation of results of the algorithms on real, publicly available data.

References

Will be provided by the supervisor.

Ing. Karel Klouda, Ph.D.
Head of Department

doc. RNDr. Ing. Marcel Jiřina, Ph.D.
Dean

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