



# Thesis Proposals at the Chair of Sports Analytics @Saarland University

Chair of Sports Analytics, Saarland University

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## 1 Quantitative Evaluation of the German Leistungsklasse System compared against international Ranking Systems

Ranking Systems in Sports like Tennis serve multiple purposes. While their primary objective is to build approximate player team strength to enable fair pairings for future matches, some of them are optimized against side conditions like penalizing players that don't frequently play, or never penalize players who played (even if they lost). The objective of this thesis is to implement the German ranking system, called *Leistungsklasse*<sup>1</sup> based on a data set of roughly 100.000 professional matches. The resulting ranking system should be evaluated mathematically and compared against other ranking systems (like international tennis rankings, basic ELO models, ...). Optionally, the results could be compared with amateur data from `tennis.de`.

**Supervisor:** Luis Holzhauer & Pascal Bauer

**Scope:** Bachelor or Master Thesis

**ID:** Leistungsklasse\_Ranking\_System

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<sup>1</sup><https://www.tennis.de/spielen/ranglisten-und-leistungsklasse/leistungsklasse.html#accordion-3aff333933-item-a0556154a0>