**Robot-eye for (Turkish) kicker-talent-identification**

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**Abstract**

Present status: Moneyball (2011), the American sports drama film can be interpreted as a massive initialization towards data-driven decision making in the sport-economics. Parallel, (inter-)national rankings in all sport disciplines should support the decision making e.g., in talent management (of kickers) and/or in case of sport bets. On the other hand: the talent-management is and will also be a kind of forecast-oriented activity.

Goal/Task: The goal is simple and trivial: creating a robot being better than the human benchmarks concerning talent-management (c.f. identification of kickers here and now having a massive potential in the future, where the potential can be interpreted as the trend of the monetary value development of a kicker). If the goal is simple, so the task is also trivial: searching for new knowledge representation forms (models) being capable of better filtering young talents than the human experts.

Solution: The human solution (the benchmark) can be automated - like the searched AI. The human expert can derive correlation values between the economic value of the focused kicker set and each descriptive phenomenon (like Aggression, Corners, Crossing, Dribbling, Finishing, FirstTouch, Freekicks, Heading, LongShots, Longthrows, Marking, Passing, PenaltyTaking, Tackling, Technique, Anticipation, Bravery, Composure, Concentration, Vision, Decisions, Determination, Flair, Leadership, OffTheBall, Positioning, Teamwork, Workrate, Acceleration, Agility, Balance, Jumping, LeftFoot, NaturalFitness, Pace, RightFoot, Stamina, Strength, Consistency, ImportantMatches, Versatility, Adaptability, Ambition, Loyalty, Pressure, Professional, Sportsmanship, etc.). The source of the data is: URL/organisation. The human expert select a relatively small number of these attributes having high correlation levels in the past (year-by-year). Then, the entire set of kickers will be filtered based on age and the level of the selected attributes. The human expert (the talent-fisherman) is good, if the ratio of the kickers with value-increasing-trend in the selection is high. The own AI should optimize the human-like analytical process.

Already closed experiments:

… + result concerning the Turkish data – c.f. e.g., 129 Turkish kickers (2017) +10 point or more pro attributes from 20 points + 5 attributes selected + correlation > 0.3 for selection of attributes success/filtering process: 129>40>4>3 kickers trends of economic values (2017-2022) for the identified talents: ...% / … % / … %

Discussion: The human analytical process leads to error (to zero-set of selections) or to low success ratios if the number of the chosen attributes and/or the minimum-level pro attribute are too high. The robot-eye (seeing more complex patterns behind the raw data) can increase the focused ratio through Solver-based processes.

Future: Parallel to single decision about kickers as persons, it will be necessary in future to be capable of analysing kicker’s attribute concerning the team-capability.

Demo-URLs: …