

Identifying highly talented athletes: Conception and design of an expert system



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(Dr. Daphnee Homenick II)

IDENTIFYING HIGHLY TALENTED ATHLETES: CONCEPTION AND DESIGN OF AN EXPERT SYSTEM

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GRIN Verlag Jul 2007, 2007. Taschenbuch. Book Condition: Neu. 210x148x11 mm. This item is printed on demand - Print on Demand Neuware - Diploma Thesis from the year 2007 in the subject Sport - Kinematics and Training Theory, grade: 1,7, Technical University of Darmstadt (Institut für Sportwissenschaft), 56 entries in the bibliography, language: English, abstract: This work deals with the conception of an Expert System for the identification of talented athletes for athletic sprinting. Expert Systems are a sub domain of Artificial Intelligence. They are a class of programs which simulate the reasoning capabilities of a human expert in the solution of complex, narrowly defined problems. Unlike conventional algorithms, they are capable of solving problems on the basis of incomplete or vague data, similar to a human expert. A key characteristic of Expert Systems is the strict separation of the problem-specific knowledge and the inference engine. The short distance sprint is one of the oldest and most exciting athletic disciplines, dating back as far as the first Olympic Games. In spite of the relatively simple goal of this sport, to cover the given distance in the shortest possible time, this task demands highly complex technical and physical skills. These are presented in the second chapter together with an overview of the different phases of a sprint race (start, acceleration, maximum velocity). This forms the basis of the talent identification methods presented in chapter three. A talent is a person that exhibits above average abilities or skills in a certain field or area. Talent search is usually restricted to the assessment of physical abilities. This is a gross reduction of the complexity of talent, as chapter three points out. Based on this knowledge, a five phase engineering process was devised. This work presents this process, and this discourse is as such...



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