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(57) Abstract :

Disclosed herein is a sprint timing and performance monitoring system (100) for tracking reaction and finish times of an athlete, that comprises a start unit (102) to detect initiation of a sprint motion via a magnetic reaction detection mechanism, a sensor rod (106) to detect passage of an athlete's torso across a finish line, a reflector rod (108) to provide a reflective surface for precise optical detection of the finish-line by the sensor rod (106), a communication network (104) configured to transmit data within the system (100), a processing unit (110) to process data and compute overall sprint performance parameters, further comprising an input module (124), a data processing module (126), a data synchronization module (128), a time calculation module (130), a reporting module (134), and an output module (136). The system (100) also includes a user interface (138) integrated within a user device (112) to display sprint performance related data.

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