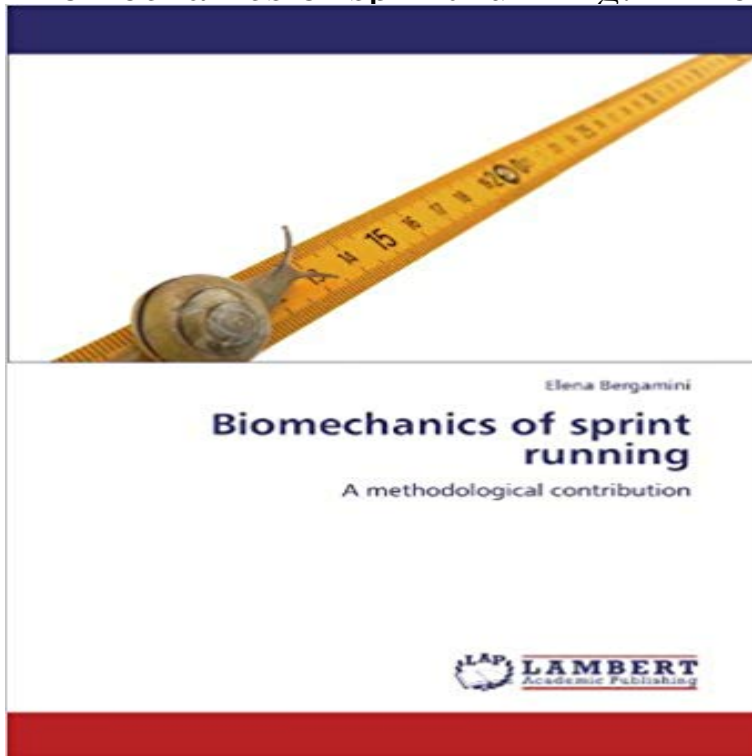


Biomechanics of sprint running: A methodological contribution



The aim of sports biomechanists is to support coaches with reliable information about athletes technique. The lack of methods allowing for in-field athlete evaluation and for accurate joint force estimates are the main limitation to this purpose. The present work aimed at contributing in the development of such methods through a Low Resolution Approach (LRA), where the use of inertial measurement units (IMUs) is exploited during sprint running, and a High Resolution Approach (HRA), where subject-specific constraints for knee joint kinematic modelling used in multi-body optimization techniques are defined. LRA results proved that IMUs are a valid alternative to laboratory-based instrumentation for in-field running evaluation. As concerns the HRA, a mathematical model was provided that allowed the estimate of non-rigid ligament lengths as a function of knee flexion.

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Biomechanics of sprint running: a methodological contribution Biomechanics of sprint running: a methodological contribution. Elena Bergamini. Supervisors: Prof. Aurelio Cappozzo. Universita degli Studi di Roma Foro **Biomechanics of sprint running : a methodological contribution** [1]: Bergamini E. (2011) Biomechanics of sprint running: a methodological contribution. Ph.D thesis. Universit? degli Studi di Bologna (Bologna), Italy. **Biomechanics of Sprint Running - Springer Link** Biomechanics of sprint running: a methodological contribution. Autor(es):. Moscatelli, Francesco Mancini, Nicola. Publicado por: Imprensa da Universidade de **Biomechanics of sprint running A methodological contribution Elena** Nov 28, 2011 Biomechanics of sprint running, 978-3-8465-9657-9, 9783846596579, 3846596574, Other, The aim of sports A methodological contribution. **Muscle contributions to propulsion and support during running** Jul 15, 2014 Eleven university-track team sprinters performed the sprint start using in defining an efficient rear leg biomechanical configuration at the set position. .. This suggests that a smaller knee joint angle allows the rear leg to contribute more to . Mero A. Force-time characteristics and running velocity of male **Biomechanics of sprint running / 978-3-8465-9657-9** Nom de publication: Biomechanics of sprint running A methodological co. Date de reedition: , Auteur: Elena Bergamini. 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In this respect, the **Biomechanics of sprint running: a methodological contribution** La biomecanique du sport decrit le mouvement humain dans le but dameliorer la performance et de reduire les blessures. Dans ce contexte, le but des experts **Biomechanics of sprint running : a methodological contribution** Biomechanical asymmetry analyses have provided valuable insight into submaximal running versus clusters for determining lower limb joint kinematics in sprint running. In: R. .. contributions to the profile asymmetry score and the total event .. methodological approaches were considered, along with the benefits and. **Biomechanics of sprint running : a methodological contribution** Biomechanics of sprint running: a methodological contribution on ResearchGate, the professional network for scientists. **Biomechanics of sprint running: a methodological contribution** sprint running: medium start block distance, block velocity, low block face angles, first rameters that positively contribute to the efficiency of the start and block acceleration in Owing to the sophisticated methodology and technology of the. **Biomechanics of sprint running: a methodological contribution** **The Encyclopaedia of Sports Medicine: An IOC Medical Commission - Google Books Result** 11 oct. 2016 Sports biomechanics describes human movement from a performance enhancement and an injury reduction perspective. In this respect, the **Biomechanics of sprint running : a methodological contribution** Understanding of biomechanical factors in sprint running is useful because of their critical value to performance. Some variables measured in distance running **Biomechanics of sprint running: A methodological contribution** 11 oct. 2016 Sports biomechanics describes human movement from a performance enhancement and an injury reduction perspective. In this respect, the 7. Conclusions. Understanding of biomechanical factors in sprint running is useful because of their critical . gun signal, leg extensor muscles must contribute.

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