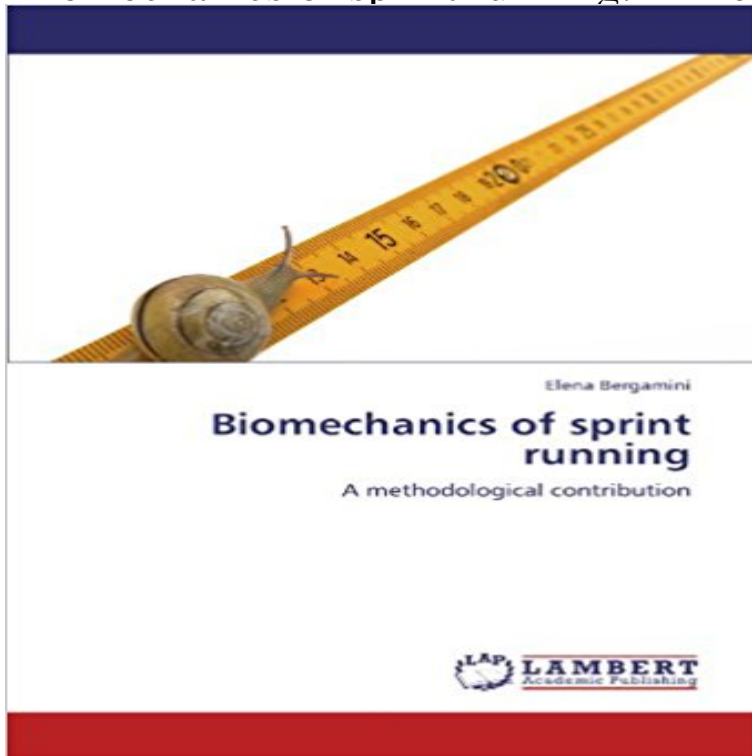


Biomechanics of sprint running: A methodological contribution



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** 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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