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Wafa SKALLI

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In vivo barycentremetry for subject specific musculo-skeletal modelling

Abstract :

Musculoskeletal disorders represent the second cause of disability, and a huge human and socio-economic burden. While mechanical modeling is daily used in a wide range of field, biomechanical models for implant design and for clinical routine still raise various challenges: How to get subject specific geometry, material properties and loads, from cost efficient clinically available data? Recent advances opens new insight in the mechanical behaviour of the musculoskeletal system. Among them, barycentremetry will be presented, together with examples of its potential clinical relevance, particularly regarding spine biomechanics and bone fragility.

Friday, December 14 2018 / 13h30-15h00

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