Quantification of throwing kinematics in cricket and the development of a mathematical model of individual performance

University of Surrey Roehampton - Wearable sensors for monitoring the internal and external workload of the athlete

Description: -
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Notes: Thesis (PhD)(School of Life and Sport Sciences)University of Surrey Roehampton, 2003.
This edition was published in 2003

Filesize: 37.35 MB

Tags: #Development #of #a #comparative #chimpanzee #musculoskeletal #glenohumeral #model: #implications #for #human #function

DYNAMICAL SYSTEMS THEORY: a Relevant Framework for Performance

As mathematical computational representations of biology, both the human and chimpanzee models represent a simplification of the musculoskeletal system, including a shoulder rhythm to predict scapular and clavicular orientations, muscles modeled as strings, no ligamentous contribution, and an optimization routine for predicting muscle forces. The deltoids are active during the support phase in experimental studies on chimpanzees and humans, to raise the arm and counter traction at the glenohumeral joint from hanging and suspension ;.

Quantification of throwing kinematics in cricket and the development of a mathematical model of individual performance (2003 edition)

Setup used in the experiment. As a result of the use of an optimization routine to predict muscle forces, the greater force-producing capacity of the deltoids was likely selected over the small supraspinatus in the human model to provide the required superior force. The modern human shoulder is primarily adapted for non-locomotor, below shoulder-height behaviors, despite a possible arboreal ancestry ; ; ; ; ; ;.

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The postural motion data inputs for the chimpanzee model geometric module were derived from human motion capture files.

A Review of the Evolution of Vision

A novice-expert comparison of intra-limb coordination subserving the volleyball serve. The purpose of this study was to develop a novel model of the chimpanzee shoulder that parallels the human Shoulder Loading and Assessment Modules SLAM model created by. Should common optimal

movement patterns be identified as the criterion to be achieved? Over the past two decades, the wearables field has moved from a device to a systems viewpoint, where the system combines the device with analytics.

DYNAMICAL SYSTEMS THEORY: a Relevant Framework for Performance

These included published data on anterior deltoid, middle deltoid, posterior deltoid, supraspinatus, infraspinatus, subscapularis, teres minor, triceps brachii, teres major and coracobrachialis ; ; ,.

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