



A wearable system for lower limb movement analysis

By Tesconi, Mario

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | A sensing system realized with conductive elastomer sensors to monitor kinematic variables of lower limbs | This present work describes the performance evaluation of a wearable system realized on a textile substrate able to monitor lower limb movements. More precisely, the research focuses on the design and realization of a wearable system for analyzing the knee joint and on the possibility of using a sensing garment in clinical and sport applications. Firstly, a static and dynamic characterization of CE sensor is described. A part of this work is dedicated to the analysis of the excessive rotational laxity of the knee joint. To do this, we realized a particular prototype devoted to monitoring the internal-external angle of the knee. Since the rotation angle is small and its measurement is influenced by soft tissue artifact, we developed a new device that was designed to calibrate the sensing garment and to apply stresses that simulate those applied by clinicians during injury assessment. Finally, a preliminary pilot study was performed in order to discriminate between healthy subjects with normal walking and pathologic subjects having undergone post-surgery therapy. | Format: Paperback | Language/Sprache: english | 187 gr...



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