

ATELIER NSDC « ANALYSE DE DONNÉES DIRECTIONNELLES AVEC APPLICATIONS EN BIOMÉCANIQUE
ET EN IMAGERIE MÉDICALE »

25–27 NOVEMBRE 2009

**NICDS WORKSHOP “THE ANALYSIS OF DIRECTIONAL DATA WITH APPLICATIONS TO
BIOMECHANICS AND BIOMEDICAL IMAGING”**

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On Application of Statistical Theory to Multi-Axis Kinematic Data

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Our ability to collect complex sets of data far exceeds the typical level of sophistication for interpretation of these data. Whole-body vibration describes the vibration/motion of heavy machinery operators, and is strongly linked to low-back discomfort and injury. This talk focuses on a description of the biomechanical relationships between vibration exposure and potential mechanisms of injury, as well as the structure of potential statistical models to describe these effects.