Abstract:
This pilot study presents an approach to generate percentile values for joint torque characteristics of digital human models. Detailed angle specific joint torque measurements of few subjects are set in relation to extensive measurements of external maximum forces including percentile values based on many subjects by using multi-body simulation. Results indicate the applicability of the approach but do not generate results of high validity due to some sources of errors along the process. More experiments solving these issues and generating valid results are being planned.