

## **Data Processing and Analysis for the 2012 Canadian Forces 3D Anthropometric Survey**

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### **Abstract**

The 2012 Canadian Forces 3D Anthropometric Survey is the first major 3D anthropometric survey of Canadian Forces personnel. 2200 full-body scans were conducted, together with traditional anthropometric measurements. This survey aims at providing accurate, detailed, and up-to-date body shape information for equipment design and procurement. In this paper, we describe the data processing and analysis of this dataset. This includes de-noising, template fitting, landmark identification, and statistical shape analysis. We also compare the military personnel with the general North American population using the CAESAR dataset.

**Keywords:** 3D anthropometry, digital human modeling, design tools.

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