

Abstract

Title: Use of selected computer aided methods in the field of orthotics – prosthetics

Objectives: The aim of this work is to process a systematic search of the available resources in the use of computer-aided (assisted) methods in the field of orthotics – prosthetics and sort the retrieved information into a comprehensive structure. Comprehensive information on the current use of these technologies in the field of orthotics – prosthetics. Furthermore, based on research carried out to determine possibilities of use of these technologies in the field orthotics – prosthetics. If there is enough information, cost-effectiveness analysis will be done.

Methods: For the development of this thesis, a chosen method of systematic search of published resources available databases was used.

Results: Use of computer-aided methods in the field orthotics - prosthetics is available in several versions. In Czech Republic this sector still favours a majority to conventional production methods, greater representation of computerized methods in this field is outside of the Czech Republic. Great attention is paid to these technologies, especially in the academic field in research projects.

Keywords: Computer aided methods, rapid prototyping, CAD/CAM, orthotics – prosthetics