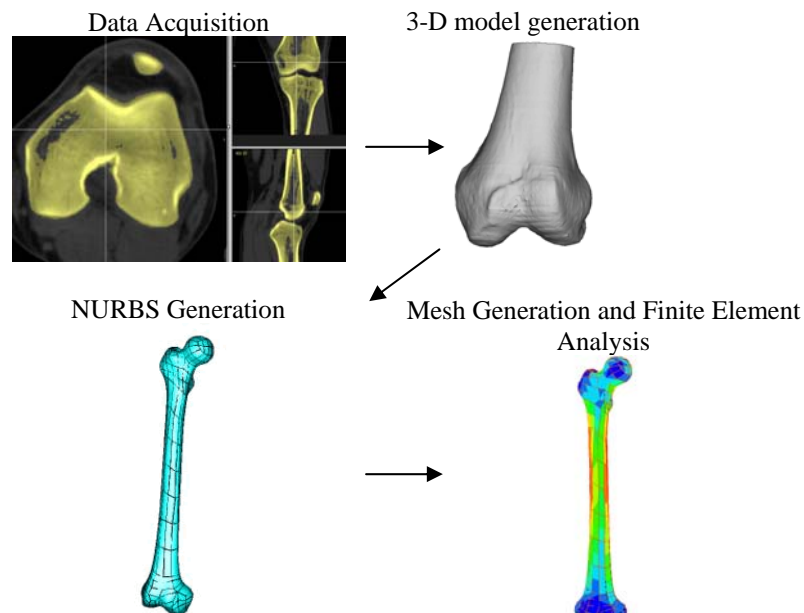


Human Lower Limb Simulation Tool

Description

The University of North Florida is in the process of developing a simulation model of the human lower limb. The model is to be used by medical practitioners in collaboration with engineers to design and develop new and improved treatment techniques for patients with orthopedic deformities and/or disease. The simulation model is based on data obtained from the National Institute of Health. The models consist of finite element meshes, loads and boundary conditions based on NURBS (Non-Uniform Rational B-Splines) geometry generated from computed tomography data.



Advantages

- New treatment techniques can be studied virtually
- Improved implant designs can be optimized and customized
- Better communication between patient and practitioner can be established

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