

PROFILE OF THE INSTITUTION



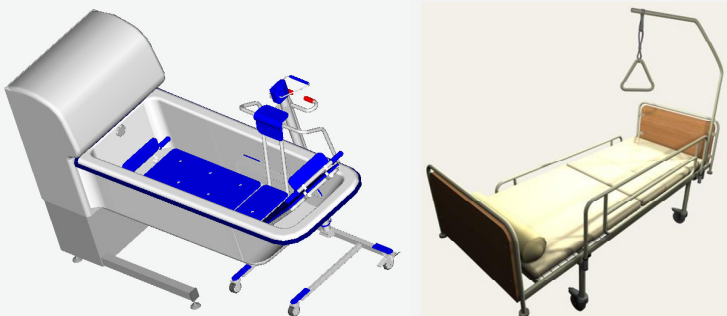
Technical University of Silesia

**Faculty of Organization and Management
Engineering of the Work Environment Group
Department of Fundamentals of Technical Systems**

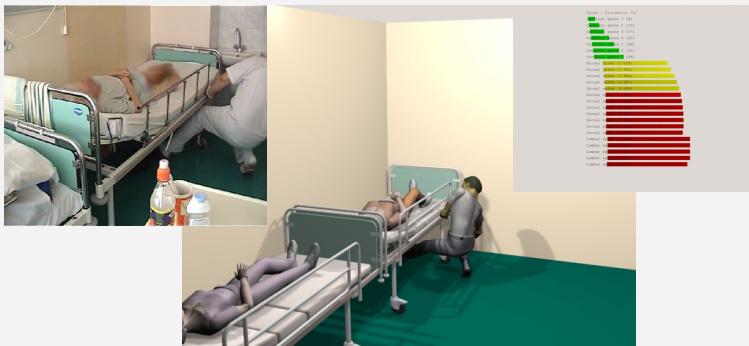
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Area of activities in Engineering of the Work Environment Group:

- Human Factors Engineering in the Health Care
- Computer modeling of the work methods by nurses
- Computer modeling of the work methods by medical staff
- Computer modeling of the work methods by disabled person
- Ergonomics and biomechanical analysis
- Prediction of nurse's and medical staff's illnesses
- Selection medical devices in Health Care
- Virtual working environment in the Health Care
- Management of virtual environment of nursing work
- Computer simulations in virtual working environment
- Preparation of training materials for e-learning purposes: for nurses, for rehabilitants, for disabled person



Computer modeling of the medical equipment



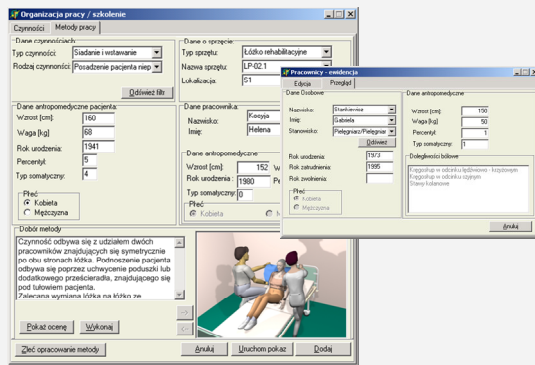
Ergonomics and biomechanical analysis

Methods used in Engineering of the Work Environment Group:

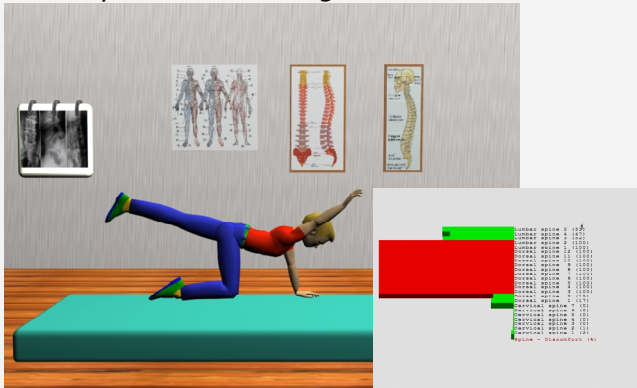
- Human Body Modeling
- Virtual Prototyping of Anthropotechnical Systems
- Reverse Engineering

Computer systems required for research:

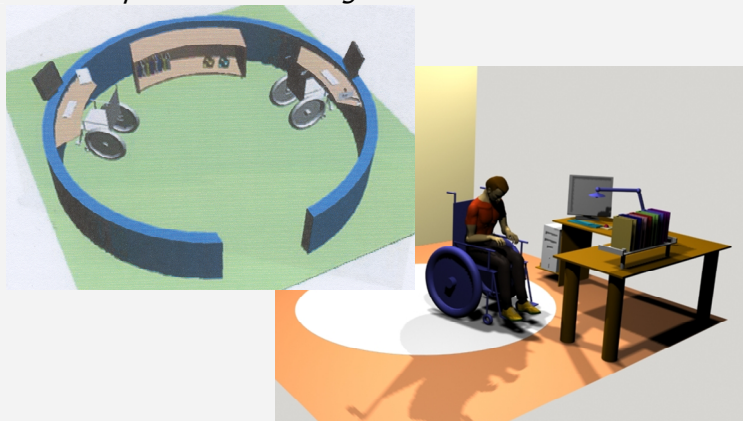
- AutoCAD
- Inventor Professional
- PhotoModeler
- 3ds Max
- Anthropos - ErgoMAX
- 3D SSPP



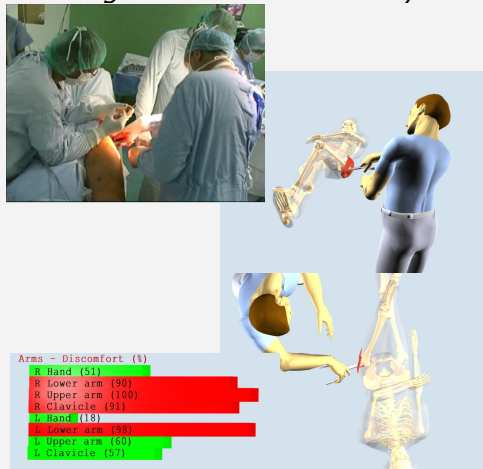
Preparation of training materials for nurses



Preparation of training materials for rehabilitants



Computer modeling of the work methods by disabled person



Computer modeling of the work methods by medical staff

Forms of co-operation expected:

- Looked Partners for International Co-operation
- Looked Partners Profiles for projects in Framework Programmes: FP7-HEALTH, FP7-ICT, FP7- IDEAS, FP7- PEOPLE
- Looked Partners for research

Keywords:

- Health Care
- Health
- medicine
- ICT
- management
- biomechanics, ergonomic
- visualization
- virtual environment of work
- e-learning

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