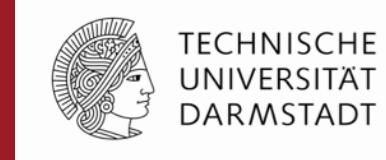


Project proposal



Investigation of asymmetric Gait Pattern Adaptations for Walking with a constrained Ankle



Motivation

People who suffer from unilateral transtibial amputations show asymmetric gait patterns which result in

- Increased metabolic expenditure during walking
- Decreased walking speeds
- Unbalanced loading conditions → secondary diseases



Project



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Investigation of asymmetric Gait Pattern Adaptations for Walking with a constrained Ankle



Work packages

Investigation of asymmetric Gait Pattern Adaptations for Walking with a constrained Ankle

- Conducting experiments with a constrained ankle joint
- Data processing
- Calculation and Analysis of different metrics
(e.g. step times, step lengths etc.)
- Comparison to transtibial amputees
(prior works exists)

