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Forskningsprofil

RESEARCH VISION

I have an interest in researching and developing both new and improved solutions to enhance the quality of life for people facing various challenges. Throughout my education, I have worked with a range of projects focusing on different solutions, including:

- Developing a proof-of-concept solution to provide upper limb prosthetic users with mechanotactile feedback that mirrors the grasp force of the prosthesis
- Developing a potential enhancement of a current product by utilizing machine learning and data from IMUs to determine the timing of functional electrical stimulation to improve the gait function of stroke patients
- Investigating the differences in muscle activation in the left forearm and thumb when using a lighter reusable duodenoscope compared to a heavier single-use duodenoscope, with the aim of potentially reducing musculoskeletal disorders and pain among endoscopic healthcare personnel

CURRENT RESEARCH

In my current research, I am part of a team investigating the usability of gamified brain-computer interfaces to provide engaging training for people with Cerebral Palsy, aimed at improving their hand function.

Projekter

Gamified brain-controlled electrical stimulation for improving hand function in individuals with Cerebral Palsy

Jochumsen, M. R. (PI (principal investigator)), Knoche, H. (Projektdeltager), Hougaard, B. I. (Projektdeltager), Dalgaard, K. S. (Projektdeltager) & Sulkjær, C. (Projektdeltager)

The Elsass Foundation

01/04/2023 → 31/03/2025

Aktiviteter

The Elsass Foundation Research Day

Jochumsen, M. R. (Deltager), Hougaard, B. I. (Deltager) & Dalgaard, K. S. (Deltager)

29 okt. 2024

Kvalifikationer

Sundhedsteknologi, Master of Science

sep. 2022 → jun. 2024

Sundhedsteknologi, Bachelor

sep. 2019 → jun. 2022