Modern Intelligent Hand Prostheses

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The Task

- Research of modern intelligent hand prostheses of the last 2-3 years

- Overview of the important properties

    - Design / structure
    - Kinematic / dynamic characteristics
    - Sensor feedback / embedded systems

- Comparison of the prostheses

    - What do they have in common?
    - What are special features of the different hands?
    - Do they provide intelligent functions?

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My previous work

- Searching for papers with prosthetic hands

- Summarizing the important information for each hand

- Creating a table with important properties

Example: SSSA-MyHand

Name	Developer	Year	Weight	Size	Joints	Actuators
MyHand	SSSA	2016	478 g	200x84x56 mm	10	3

Name	Integrated Actuators	Transmission	Sensors	Finger Force	Joint Speed
MyHand	Yes	Geneva drive	Position / Force	12-31N	160-250°/s

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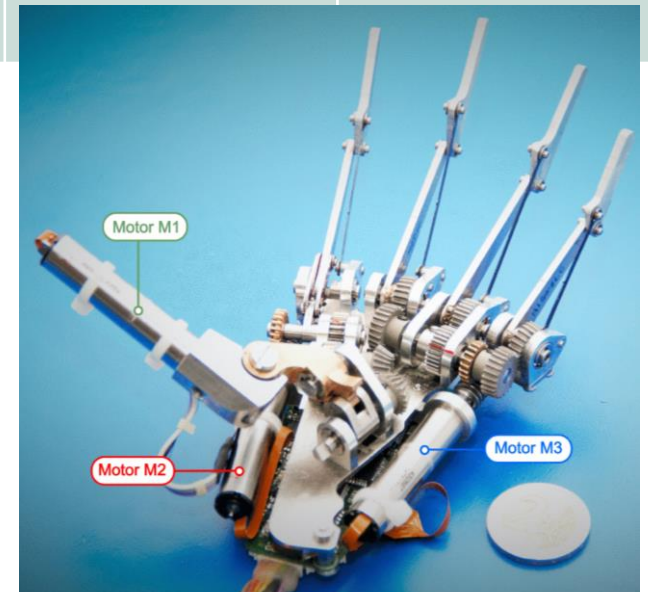
My future work

- Collecting more information about
    - Underactuation
    - Sensor feedback systems
    - Embedded systems

- Comparison of the prostheses
    - Common properties / features
    - Unique features

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