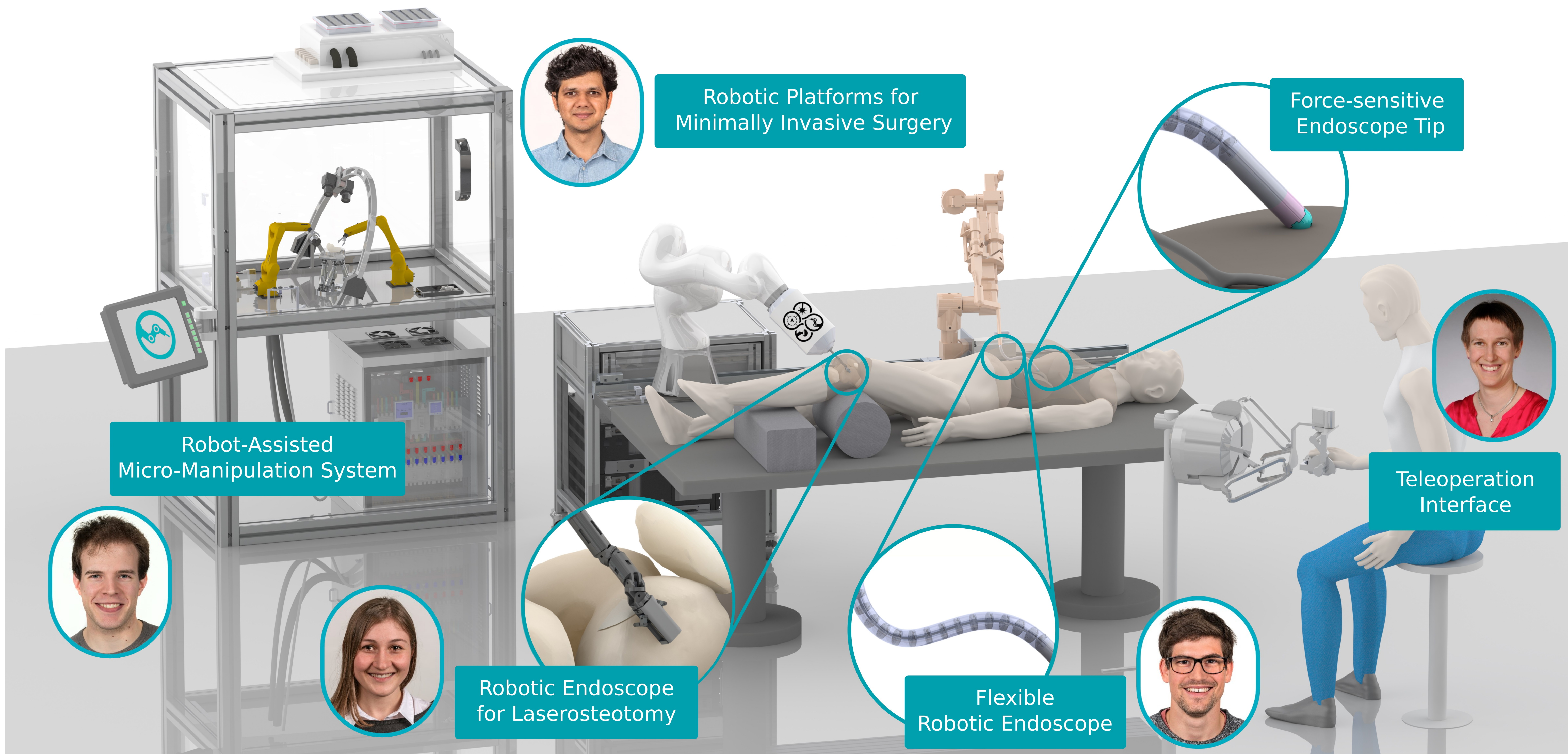


# Bio-Inspired Robots for MEDicine-Laboratory (BIROMED-Lab)

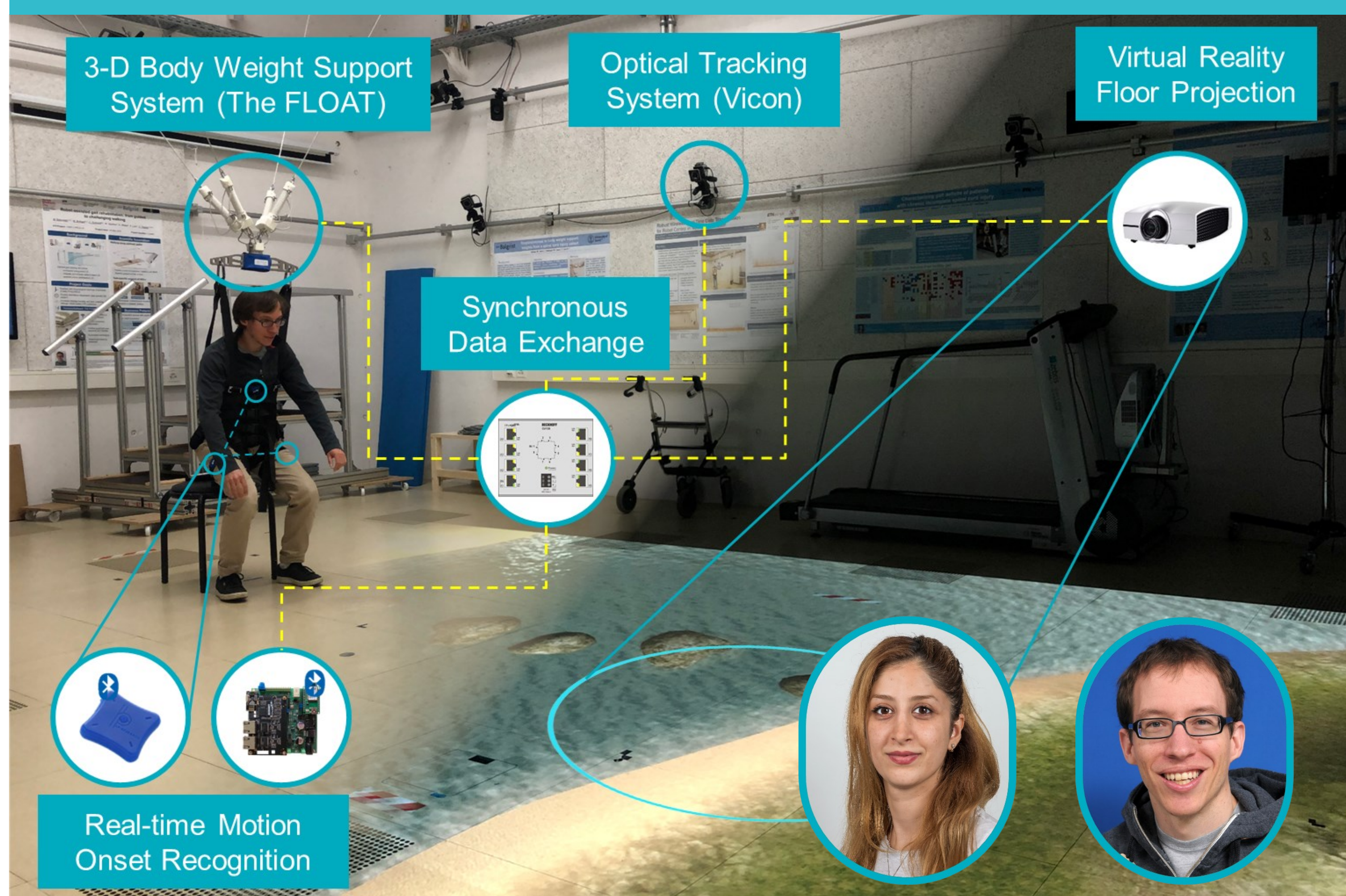
Nicolas Gerig<sup>1</sup>, Georg Rauter<sup>1</sup>

<sup>1</sup>BIROMED-Lab, Dept. of Biomedical Engineering, University of Basel

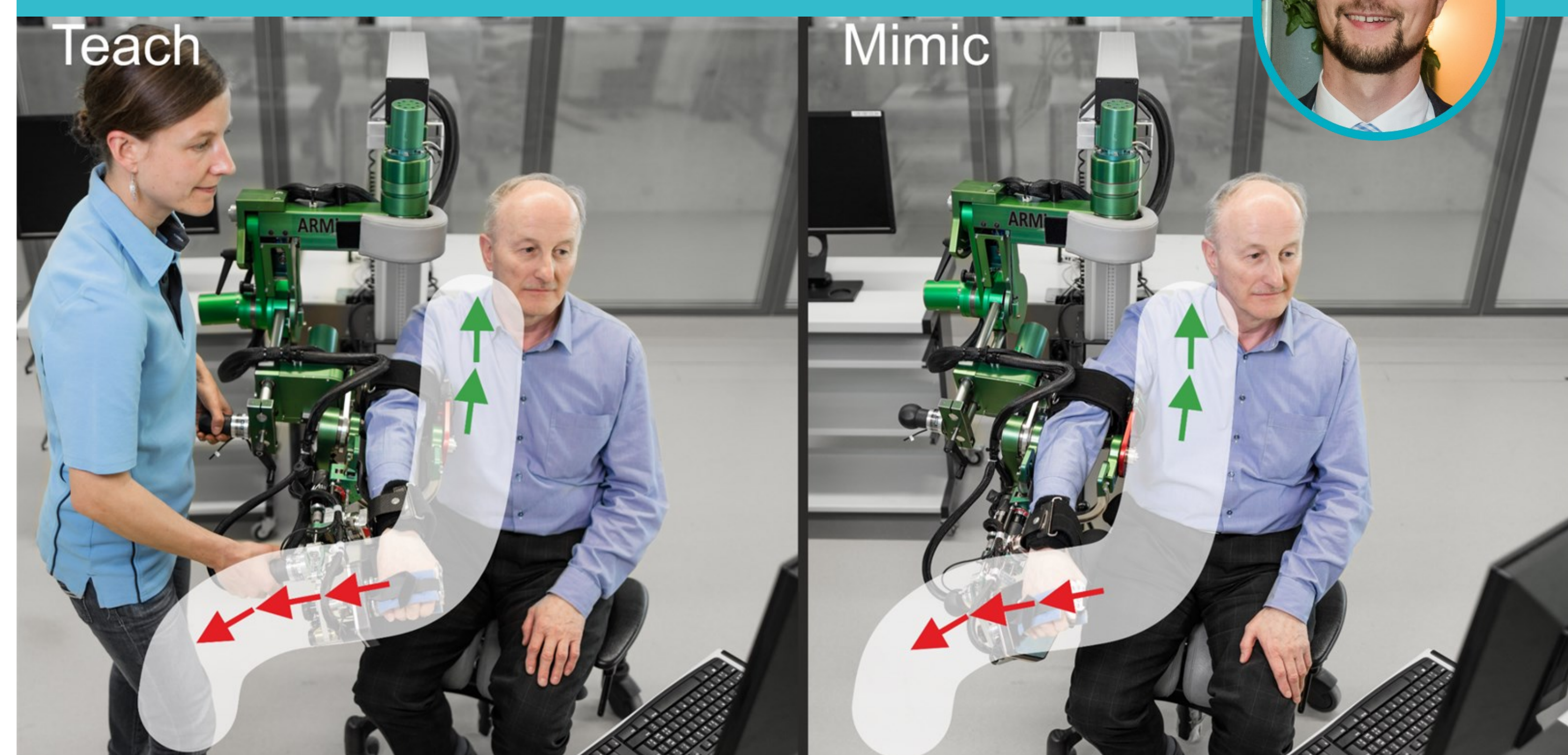
## Minimally Invasive Robot-Assisted Computed-guided Laser osteotomy (MIRACLE)



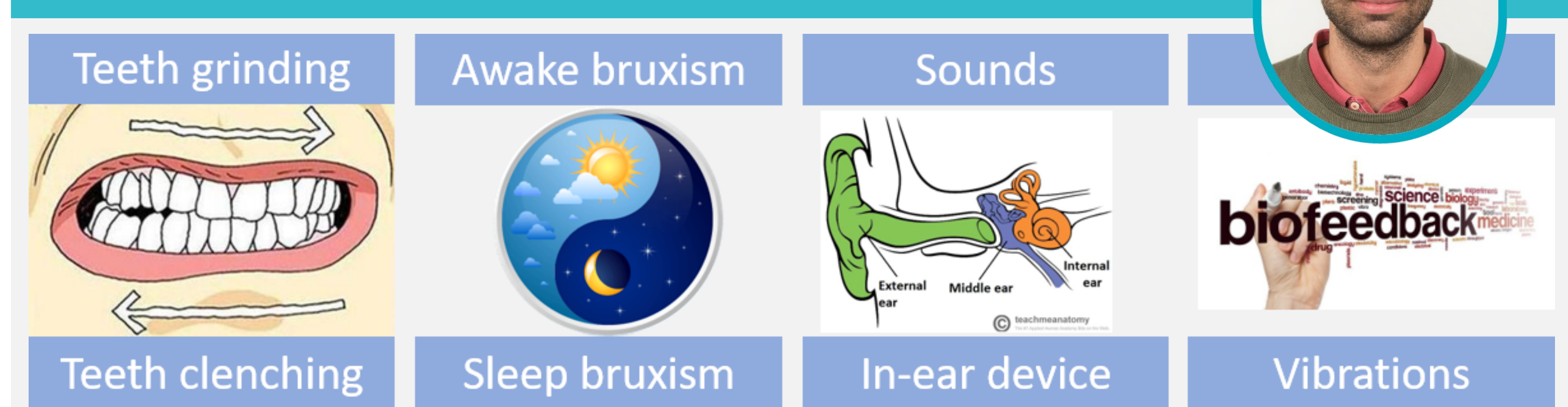
### Gait Rehabilitation



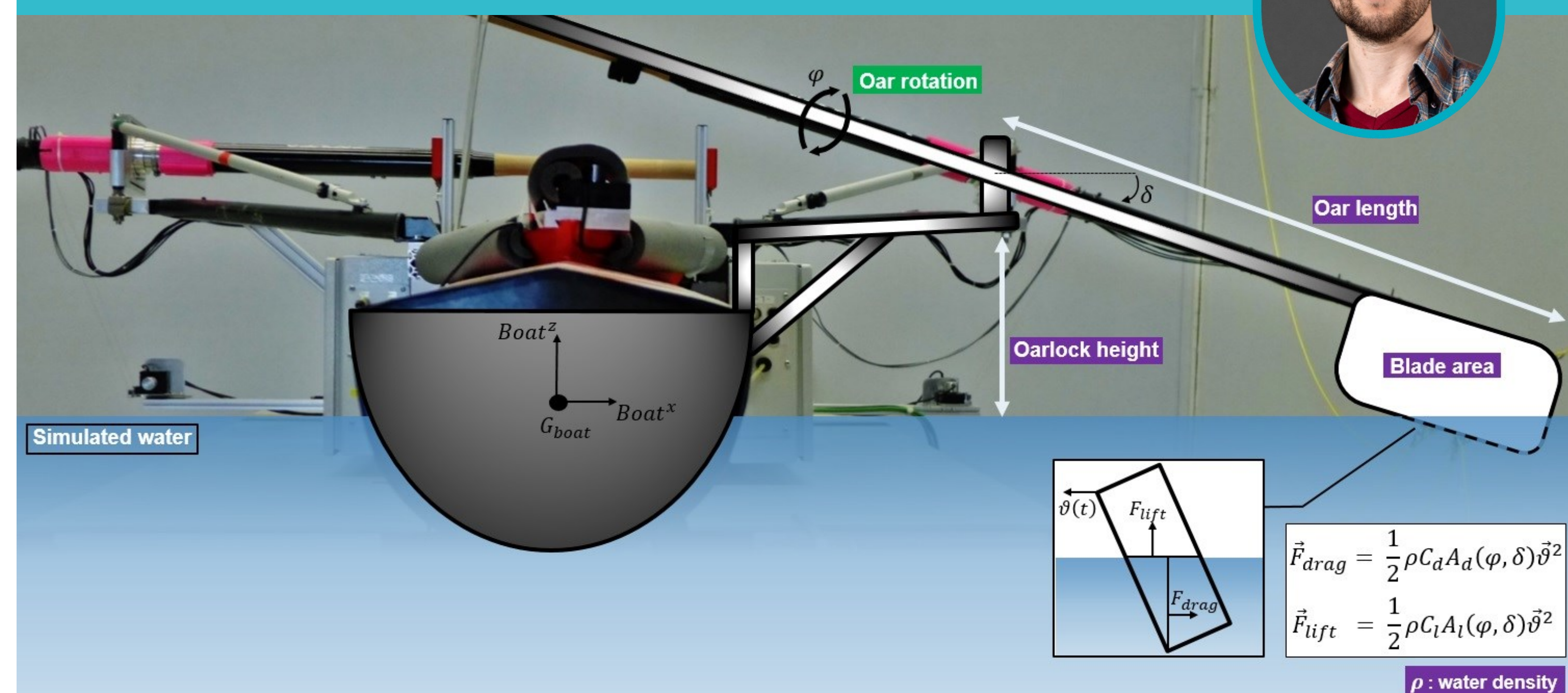
### Arm Rehabilitation



### Bruxism Prevention



### Virtual Rowing Trainer



#### Selected Publications

- [1] G. Rauter, N. Gerig, R. Sigrist, R. Riener, and P. Wolf, "When a robot teaches humans: Automated feedback selection accelerates motor learning," *Science Robotics*, vol. 4, no. 27, p. eaav1560, Feb. 2019.
- [2] M. Eugster, P. Cattin, A. Zam, and G. Rauter, "A Parallel Robotic Mechanism for the Stabilization and Guidance of an Endoscope Tip in Laser Osteotomy," in *IEEE Conference on Intelligent Robots and Systems (IROS)*, pp.1306-1311, 2018.



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