



Kick-off of the new research project 'MobiPaR' – Mobilization of Intensive Care Patients

(03.04.2017)

Alexander König, Ramona Schläfer and Maximilian Große-Dunker took part in the kick-off meeting for the research project 'MobiPaR' in Hannover. This project is funded by the Federal Ministry of Education and Research.

The aim of the project is to refine an existing verticalizable nursing- and rehabilitation bed, that is linked with a robotic-supported gait-therapy, in such a way that it becomes auto-adaptive. This way, even non-trained personnel may operate the device in an intuitive way.

The target groups for the device are intensive-care patients. Often, therapy with such critically ill patients is not feasible because transferring them onto a separate therapy device is too dangerous. Thanks to the described device this working step is not necessary anymore. During the therapy session, the leg movement will be controlled through auto-adaptive, intelligent algorithms. As such, the movement can be steadily optimized to suit the patients' needs.



The MobiPaR-Team: from left to right: Maximilian Grosse-Dunker (Reactive Robotics), Dr. Friedemann Müller (Schön Klinik Bad Aibling), Ramona Schläfer (Reactive Robotics), Prof. Dr. Susanne Beck und Daniela Sprengel (Lehrstuhl für Strafrecht, Strafprozessrecht, Strafrechtsvergleichung u. Rechtsphilosophie, Leibniz Universität Hannover), Barbara Schäpers (Schön Klinik Bad Aibling), Prof. Dr. Martin Müller (FH Rosenheim), Prof. Dr. med. Kirsten Brukamp (Evangelische Hochschule Ludwigsburg), Jan Alberts (Institut für Regelungstechnik, Leibniz Universität Hannover), Matthias Hösl (Schön Klinik Bad Aibling), Dr.-Ing. Torsten Lilge (Institut für Regelungstechnik, Leibniz Universität Hannover). Nicht im Bild: Prof. Dr.-Ing. Sami Haddadin (Institut für Regelungstechnik, Leibniz Universität Hannover), Dr. Alexander König (Reactive Robotics), Dr. Hans Brunner (Schön Klinik Bad Aibling), Marion Egger (Schön Klinik Bad Aibling), Dr. Carmen Krewer (Schön Klinik Bad Aibling)

The Schön-Klinik Bad Aibling serves as the project coordinator and medical partner in a consortium of universities and industrial institutions. The technical research and development will be performed by Reactive Robotics GmbH from Munich and the Institute for Control Systems Engineering of the Leibniz University Hannover. The University of Rosenheim represents nursing science interests. Furthermore, ethical, legal and social aspects of the project will be studied by Leibniz University and the Evangelical University of Ludwigsburg.

GEFÖRDERT VOM



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