Vortragsankündigung

Seminar Regelungssysteme LV 0430L654
Freitag, 17. Februar 2012, 10:00 Uhr
Vortragsort: EN 223

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“Recent Results on Iterative Learning Control for Upper limb Stroke Rehabilitation”

Annually 15 million people worldwide suffer a stroke and five million are left permanently disabled. Upper limb recovery following stroke is poor. Stroke is also an age-related disease, placing an increasing burden on long-term health and related resources unless improvements are made in achieving independence. Consequently there is a pressing need to improve the effectiveness of treatments. Enabling rehabilitation outside the hospital, supported by mobile technology may lead to reduced cost, increased intensity of therapy, and a shift in the emphasis of responsibility for good health from health professionals to patients. This seminar will describe the latest results from a research programme at the University Southampton on robotic assisted rehabilitation where iterative learning control is used to regulate the stimulation applied, including the results of clinical trials.