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Iterative Learning Control for Electrical Stimulation and ...

Worldwide 17 million people are left with impairment to their upper or lower limb following stroke. Functional electrical stimulation (FES) is a metho...

Iterative learning control of functional electrical ...

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Iterative Learning Control for Electrical Stimulation and ...

Iterative Learning Control in Health Care: Electrical Stimulation and Robotic-Assisted Upper-Limb Stroke Rehabilitation Abstract: Annually, 15 million people worldwide suffer a stroke, and 5 million are left permanently disabled.

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Feasibility of Iterative Learning Control Mediated by Functional Electrical Stimulation for Reaching After Stroke Show all authors. A.M. Hughes, MSc. ... This study aimed to investigate whether iterative learning control (ILC) mediated by FES is a feasible intervention in upper limb stroke rehabilitation.

Feasibility of Iterative Learning Control Mediated by ...
IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY, VOL. 27, NO. 5, SEPTEMBER 2019 2287 Passivity-Based Iterative Learning Control for Cycling Induced by Functional Electrical Stimulation With Electric Motor Assistance Vahideh Ghanbari ,VictorH.Duenas, Panos J. Antsaklis , and Warren E. Dixon Abstract—This brief examines the use of a learning ...

Passivity-Based Iterative Learning Control for Cycling ...

Iterative learning control (ILC) has its origins in the control of processes that perform a task repetitively with a view to improving accuracy from trial to trial by using information from previous executions of the task. This brief shows how a classic application of this technique – trajectory

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Iterative Learning Control for Electrical Stimulation and ...

A survey of iterative learning control a learning-based method for high-performance tracking control. IEEE Control Syst Mag. 2006; 26:96 – 114. Freeman CT, Rogers E, Hughes AM, Burrige JH, Meadmore KL. Iterative Learning Control in Healthcare Electrical Stimulation and Robotic-assisted Upper Limb Stroke Rehabilitation.

Functional electrical stimulation mediated by iterative ...

Iterative Learning Control Analysis, Design, and Experiments Mikael Norrlin of Department of Electrical Engineering Linköping universitet, SE-581 83 Linköping, Sweden Linköping 2000. Cover Illustration: The robot shown on the front page is the ABB IRB1400 that has been used in the experiments in the

Mikael Norrlin of - Automatic control

Passivity-Based Iterative Learning Control for Cycling Induced by Functional Electrical Stimulation With Electric Motor Assistance Abstract: This brief examines the use of a learning control method in a passivity-based framework to control a motorized cycle-rider system with functional electrical stimulation (FES) of the quadriceps muscle ...

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He received the M.S. degree from the University of North Dakota in Aerospace Engineering and the Ph.D. in Electrical Engineering from Utah State University. Dr. Ahn, with his co-authors, has been the primary developer of the ideas in the monograph and has a deep understanding of the design of iterative learning control systems, especially as ...

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Iterative learning control for electrical stimulation and ...

Iterative learning Control for re-education of upper limb function mediated by electrical stimulation (ES) and Restoration of Reach and Grasp in Stroke Patients using ES and Haptic Feedback

Iterative learning Control for re-education of upper limb ...

Abstract. This chapter gives the required background on iterative learning control. After introducing the defining characteristic of this form of control, attention is restricted to the laws used in the stroke rehabilitation research.

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