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Using functional electrical stimulation mediated by iterative learning control and robotics to improve arm movement for people with multiple sclerosis IEEE Transactions on Neural Systems and Rehabilitation Engineering, 24 (2) (2016), pp. 235-248

~~Iterative learning control of functional electrical ...~~
Iterative Learning Control for Electrical Stimulation and Stroke Rehabilitation. Demonstrates the application of control engineering in next-generation healthcare. Shows how rehabilitation robots can be designed with supporting clinical evidence. Show all benefits.

~~Iterative Learning Control for Electrical Stimulation and ...~~
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 following in robots – can be extended to neurological rehabilitation after stroke.

~~Iterative Learning Control for Electrical Stimulation and ...~~
Iterative learning control of functional electrical stimulation in the presence of voluntary user effort. Worldwide 17 million people are left with impairment to their upper or lower limb following stroke. Functional electrical stimulation (FES) is a method of artificially activating muscles using electrical pulses and is the most common rehabilitation technology.

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In this paper, a two-degree-of-freedom manipulator is taken as the research object, and the relevant dynamic model is established, the iterative learning controller is designed, and the trajectory tracking control of the manipulator is carried out by

~~Iterative learning control algorithm for optimal path ...~~
Abstract. This article presents a novel robust iterative learning control algorithm (ILC) for linear systems in the presence of multiple time-invariant parametric uncertainties.The robust design problem is formulated as a min–max problem with a quadratic performance criterion subject to constraints of the iterative control input update. Then, we propose a new methodology to find a sub-optimal solution of the min–max problem.

~~Robust iterative learning control for linear systems with ...~~
Aug 31, 2020 iterative learning control for electrical stimulation and stroke rehabilitation springerbriefs in electrical Posted By Richard ScarryLtd TEXT ID 310803369 Online PDF Ebook Epub Library of typical robotic manipulators the book concludes with the application of artificial neural networks to the learning control problem three specific ways to neural nets for this purpose

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INTRODUCTION : #1 Iterative Learning Control For Electrical Publish By Yasuo Uchida, Iterative Learning Control For Electrical Stimulation And iterative learning control for electrical stimulation and stroke rehabilitation authors freeman c rogers e burridge jh hughes a m meadmore kl free preview demonstrates the application of control engineering

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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. A stroke is usually caused when a blood clot blocks a vessel in the brain and acts like a dam, stopping the blood reaching the regions downstream.

~~Iterative Learning Control in Health Care: Electrical ...~~
Abstract. In this paper, an enhanced model-free adaptive iterative learning control (EMFAILC) method is proposed, which is applied for a class of nonlinear discrete-time systems with load disturbance and random data dropout. This method is a data-driven control strategy and only the I/O data are required for the controller design.

~~Enhanced model-free adaptive iterative learning control ...~~
The iterative learning control scheme is then applied for a case of impedance control of robotic tasks when the characteristics of reproducing force of the deformable material is nonlinear in its displacement and unknown and the tool mass is uncertain.

~~Iterative learning of impedance control from the viewpoint ...~~
Meadmore, K.L., Hughes, A., Freeman, C.T. et al. Functional electrical stimulation mediated by iterative learning control and 3D robotics reduces motor impairment in chronic stroke. J NeuroEngineering Rehabil 9, 32 (2012). https://doi.org/10.1186/1743-0003-9-32. Download citation. Received: 28 July 2011. Accepted: 20 April 2012. Published: 07 June 2012

~~Functional electrical stimulation mediated by iterative ...~~
Iterative learning control of functional electrical stimulation in the presence of voluntary user effort. S Sa-e, CT Freeman, K Yang. Control Engineering Practice 96, 104303, 2020. 2020: Point-to-point repetitive control of functional electrical stimulation for drop-foot. AP Page, CT Freeman. Control Engineering Practice 96, 104280, 2020.

~~Professor Chris Freeman - Google Scholar~~
Iterative Learning Control takes account of the recently-developed comprehensive approach to robust ILC analysis and design established to handle the situation where the plant model is uncertain. Considering ILC in the iteration domain, it presents a unified analysis and design framework that enables designers to consider both robustness and monotonic convergence for typical uncertainty models, including parametric interval uncertainties, iteration-domain frequency uncertainty, and iteration ...

~~Iterative Learning Control: Robustness and Monotonic ...~~
His research interests include iterative learning and repetitive control theory and their experimental application to industrial systems and biomedical engineering. He has led the engineering component on large UK government funded grants which have developed a range of upper limb systems using robotic and Functional Electrical Stimulation (FES ...