Powered Wheelchair Controller Using Hybrid Bio-Signals

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Reviews

Great e book and helpful one. It really is writter in straightforward terms and not hard to understand. You can expect to like how the blogger write this book.
(Hudson Christiansen)

POWERED WHEELCHAIR CONTROLLER USING HYBRID BIO-SIGNALS

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Grin Verlag Mrz 2013, 2013. Taschenbuch. Book Condition: Neu. 210x148x4 mm. This item is printed on demand - Print on Demand Titel. Neuware - Master's Thesis from the year 2010 in the subject Engineering - Robotics, grade: 70, University of Essex, course: Embedded Systems - Robotics - Human Machine Interaction, language: English, abstract: The idea of using a powered wheelchair, for people with mobility limitation and the elderly has been around for quite a while. Most of these wheelchairs require the use of upper limbs to control them. On the contrary, this project aims to help quadriplegic individuals to use their wheelchair with minimum human assistance. It involves the use of Bio-signals mainly EMG EOG and EEG to control the intelligent wheelchair using Artificial Neural Network and Sensor Fusion technology. The setup can also be use for below the neck paralyzed or elderly people with less upper arm strength. It s a new approach towards wheelchair control which is non-invasive, discrete and functional. This document gives details of the human-machine interface, the technical equipment, functionality, evaluation and implementation of the system. 68 pp. Englisch.

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