

# **PREDICTING ENERGY EXPENDITURE OF MANUAL WHEELCHAIR USERS USING A WEARABLE DEVICE**

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Obtaining an accurate estimate of everyday physical activity (PA) in manual wheelchair users (MWUs) can promote regular PA. This study developed and evaluated new energy expenditure (EE) prediction models for SenseWear Armband (SW) in MWUs with spinal cord. The new prediction models significantly improved the EE accuracy when compared with the default SW outputs for wheelchair related activities.