

Wearable and wireless systems for healthcare II: movement disorder evaluation and deep brain stimulation systems

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Abstrak

This book provides a far-sighted perspective on the role of wearable and wireless systems for movement disorder evaluation, such as Parkinsons disease and Essential tremor. These observations are brought together in the application of quantified feedback for deep brain stimulation systems using the wireless accelerometer and gyroscope of a smartphone to determine tuning efficacy. The perspective of the book ranges from the pioneering application of these devices, such as the smartphone, for quantifying Parkinsons disease and Essential tremor characteristics, to the current state of the art. Dr. LeMoyné has published multiple first-of-their-kind applications using smartphones to quantify movement disorder, with associated extrapolation to portable media devices.