

Imam Reza International University

MS Thesis

Faculty of Engineering

Department of Computer Engineering

Information Technology Engineering- Information Systems Management

Diagnosis of Parkinson's Disease Using Handwritten Lines Using a Deep Torsional Neural Network

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Winter 2020

Abctract
Parkinson's is one of those diseases that can not be diagnosed and identified until the signs and Parkinson's is one of those diseases that can be signs and symptoms of movement appear, so early diagnosis of this disease is extremely important for symptoms of movement appear, and diagnosed Parkinson's disease from hand symptoms of movement appear, so early diagnosed Parkinson's disease from handwritten prevention. In this study, we examined and diagnosed Parkinson's disease from handwritten patterns. The algorithm of our proposed method has steps: 1- Image processing 2- Feature patterns. The algorithm of our proposed in the proposed in this work is the classifier. The extraction 3- Classification. One of the most important steps in this work is the classifier. The extraction 3- Classification. One of the most may greater the accuracy of recognition. For this purpose, greater the power of classifier learning, the greater the accuracy of recognition. For this purpose, greater the power of classifier learning, the greater the powerful CNN classifier to classify and diagnose the disease. And we were able to achieve 80.4% detection accuracy.

Keywords: Parkinson, Manuscript, Convulsive Neural Network