

# Development of a Mobile Application for Determination of the Parkinson's Tremor

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Parkinson's tremor is a movement disorder that causes involuntary movements and rigidity, as well as abnormal walking and posture [1-3]. In this research work, we developed a specialized mobile application for testing by a stylus on a screen of a smartphone. This application was developed on Java for Android OS, using specific tools and techniques for analyzing graphical skills during drawing with the stylus on the screen [4-5].

Fig. 1 schematically demonstrates demo version of developed application with the graphical symbol of the Parkinson's tremor, a sample of the test - Archimedes spiral.

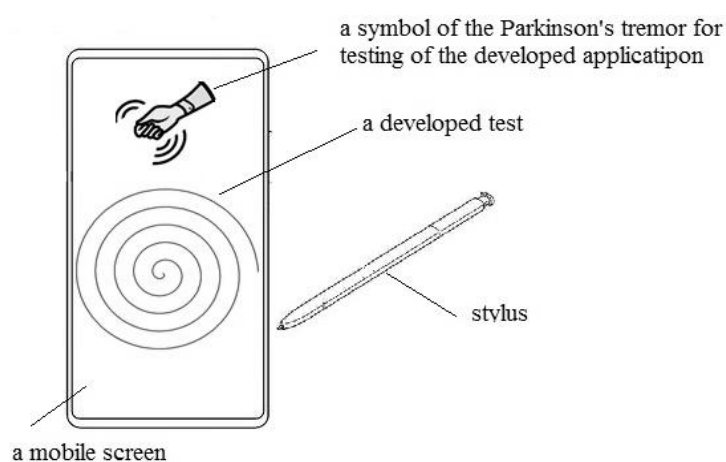


Fig. 1. A schematic diagram of a sample of the developed test (Archimedes spiral) for drawing by stylus on a screen of smartphone

Therefore, the developed mobile application makes it possible to test people remotely, train fine motor skills, and identify movement disorders associated with pathological tremors.

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