



Mind over matter as a natural way of treating pain using mind strategies

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ABSTRACT

With the increase of the population of the elderly people, Parkinson's disease (PD) gets more and more ordinary in our society. PD is known as the second common neurological disorder and highly impacts on both economic and social aspects, due to its high cost of the care for the patients. According to our text mining-based research analysing papers concerning PD published in the recent years (2014-2017) for the purpose of identification of recent interesting topics in it, the term 'gait' has gained the highest attention. Gait analysis, in fact, plays a crucial role to make a prediction of PD, its early detection, its diagnosis and even prevention of the risk of fall. In this presentation, author will introduce typical sensors to observe PD patients' gaits like 3D motion captures, accelerator and gyro sensors, voice recording devices, and so on. He will also present artificial intelligence (AI) techniques utilized to recognize PD gait patterns such as freezing of gait, shuffling of gait and the like. He will finally explain how these techniques of wearable devices and sensors, and machine learning approaches in AI can help both doctors and patients in terms of the act of diagnosing and caring for PD, and taking medication.

Biography

Penney Megginson has a Master of Science in Physical Therapy from the University of Miami, USA. She is also a yoga/Pilates instructor and NLP/ EFT trainer who specializes in working with patients with fibromyalgia and chronic pain. She is the author of the best-selling book, *Positive Minds Create Positive Lives*. She is the creator of the Megginson Method, a methodology for treating chronic pain and has spoken and taught workshops on her methodology globally.