

The focus of this talk is the application of evolutionary algorithms to the diagnosis, differentiation and monitoring of neurodegenerative conditions such as Parkinson's disease and Alzheimer's disease. This has transformed clinical practice allowing patients to be monitored with greater accuracy than previously possible in hospital and their own homes, leading the way to saving money and improving the patient's quality of life.

Stephen L. Smith received a BSc in Computer Science and then an MSc and PhD in Electronic Engineering from the University of Kent, UK. He is currently a reader in the Department of Electronics at the University of York, UK where his main research interests are in developing novel representations of evolutionary algorithms particularly with application to problems in medicine. Stephen is founder and director of ClearSky Medical Diagnostics Ltd., which is developing a range of devices for diagnosing and monitoring neurodegenerative conditions.

