Professor Stephen Roberts, FREng

Stephen Roberts is the RAEng/Man Professor of Machine Learning at the University of Oxford. He is a Fellow of the Royal Academy of Engineering, the Royal Statistical Society, the Institute of Physics and is a Faculty Fellow of the Alan Turing Institute. Stephen is Director of the Oxford-Man Institute of Quantitative Finance, co-Director of the Oxford Centre for Doctoral Training in Autonomous Intelligent Machines and Systems (AIMS) and co-founder of the University Machine Learning spin-out company, Mind Foundry. He has published widely, having some 300 publications which have accrued 18,000 citations.

Stephen’s interests lie in methods for machine learning & data analysis in complex problems, especially those in which noise and uncertainty abound. His current major interests include the application of machine learning to huge astrophysical data sets (for discovering exoplanets, pulsars and cosmological models), biodiversity monitoring (for detecting changes in ecology and spread of disease), smart networks (for reducing energy consumption and impact), sensor networks (to better acquire and model complex events) and finance (to provide better insight into timeseries and aggregate large numbers of unstructured information streams).