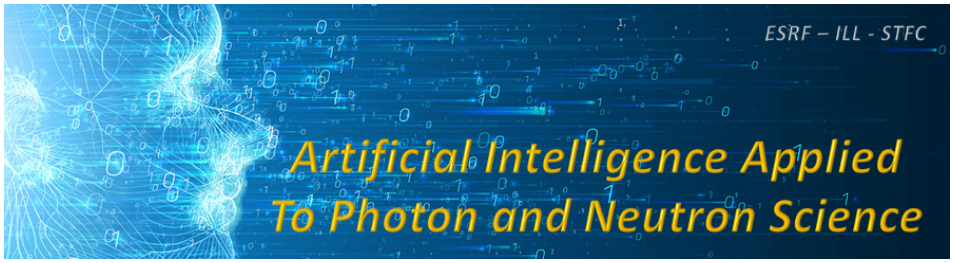

Contribution ID: **70** Type: **not specified**

Data-driven Materials Discovery for Functional Applications

Wednesday, 13 November 2019 11:00 (25 minutes)

This talk will showcase the use of artificial intelligence (natural language processing, optical character recognition, and machine learning) to auto-generate materials databases for application to areas of interest for neutron science (and the wider materials science community). Specifically, software tools that auto-extract and autonomously analyse materials characterization data will be presented, using case studies for their demonstration, taken from the areas of magnetism and materials for energy.

Presenter: Prof. COLE, Jacqui (University of Cambridge/ISIS)

Session Classification: Morning 2