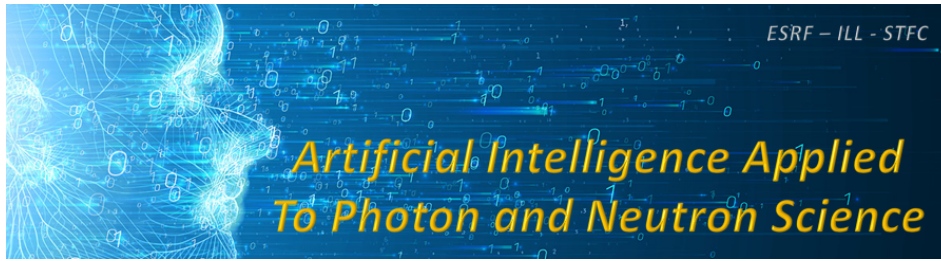


## Artificial Intelligence Applied to Photon and Neutron Science



Contribution ID: 70

Type: **not specified**

# Data-driven Materials Discovery for Functional Applications

*Wednesday, November 13, 2019 11:00 AM (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