

Session Program

17-18 Sept 2018

AI at CERN and SKA

Day 2

Alan Turing Institute, London
96 Euston Rd, Kings Cross, London NW1 2DB, UK

Tuesday 18 September

10:00

Day 2: ML for Astro Physics

Session

10:00–10:30

ML and AI challenges in current and future optical and near infra imaging datasets

Speaker

Prof. Richard McMahon

10:30–10:50

Optical transient surveys of today and tomorrow : machine learning applications

Speaker

Prof. Stephen Smartt

10:50–11:10

Accelerating science by re-purposing machine learning software

Speaker

Dr Bojan Nikolic

11:10–11:30

AstroStatistics and AstroInformatics in the content of the SKA and LSST

Speaker

Prof. Jason McEwen

11:30–11:45

How to train taggers on data

Speaker

Dr Jennifer Thompson

11:45–12:00

Coffee Break

12:00–13:00

Panel: ML Specific to Astro Physics

13:00

14:00

Day 2: Areas of common interest

Session

14:00–14:30

Removing Clutter - Killing Dimension

Speaker

Prof. Terry Lyons FLSW FRSE FRS

14:30–14:45

Direct optimisation of the discovery significance when training neural networks to search for new physics in particle colliders

Speaker

Dr Adam Elwood

14:45–15:00

Radio Galaxy Classification with Deep Learning

Speaker
Ms Vesna Lukic

15:00–15:15

Learning the solution to SDEs using rough paths theory and machine learning

Speaker
Dr Hao Ni

15:15–15:30 **Coffee Break**

15:30–16:00

Networked data-science for research, academic communities and beyond

Speaker
Dr Andrey Ustyuzhanin

16:00–16:15

Building Search Pipelines and Labelled Datasets for Transient Discovery

Speaker
Dr Griffin Foster

16:15–16:45

Time-domain Machine Learning - Opportunities and Challenges for the SKA

Speaker
Dr Robert Lyon

16:45–17:00 **Coffee Break**

17:00–18:00 **Panel: Areas for Possible Collaboration**

18:00