

## **Session Program**

**June 28, 2021 to July 2, 2021**



**CTBT Science and Technology Conference  
2021 (SnT2021)**

**T3.6 e-poster session**

# Thu, July 1

9:00 AM

## T3.6 e-poster session: T3.6 - Artificial Intelligence and Machine Learning

**Poster Session** | **Location:** Online | **Conveners:** Wolfgang Sommerer, Vera Miljanovic Tamarit

12:00 PM

9:00 AM

## T3.6 e-poster session: e-poster session - T3.6 - Artificial Intelligence and Machine Learning

**Poster Session** | **Location:** Online | **Convener:** Ms Vera Miljanovic Tamarit

### Understand the vulnerabilities of machine learning systems in adversarial settings

**Speaker**

Mr Mohamed Serrhini

### Automatic Radionuclide Detection Using Deep Neural Networks

**Speaker**

Mr Rezky Mahardika Saryadi

### The Optimised Local Renyi Entropy-Based Shrinkage Algorithm for Sparse TFD Reconstruction

**Speaker**

Mr Victor Sucic

### BazNet: A Deep Neural Network for Confident Three-component Backazimuth Prediction

**Speaker**

Mr Joshua Dickey

### Simulation of operational results of NET-VISA on a three-month historical data set

**Speaker**

Mr Ronan Le Bras

### Deep learning denoising applied to regional distance seismic data in Utah

**Speaker**

Mr Rigobert Tibi

### On using self-sustained events for stochastic waveform modelling with deep neural networks

**Speaker**

Mr Xavier Cassagnou

### Application of Deep Neural Networks to seismic signal recognition

**Speaker**

Mr El Hassan Ait Laasri

### ArrNet: A Deep Neural Network for Confident Arrival Time Estimation

**Speaker**

Raul Pena

**A neural network architecture for detecting repeating events using seismic arrays**

**Speaker**

Mr Steffen Maeland

**Global Scale Discrimination of Explosions and Earthquakes with Deep Learning**

**Speaker**

Ms Rayna Arora

**Application of a Paired Neural Network to Aftershock Identification**

**Speaker**

Ms Andrea Conley

**On filtering regional turbulence noise in infrasound data with interpretable neural networks**

**Speaker**

Mr Cyril Nefzaoui Blanchard

**Unsupervised deep learning for identifying seismic event classes in signal-rich records for environmental monitoring**

**Speaker**

Mr Andreas Köhler

**Discrimination between Earthquakes and Quarries Blasts Using Committee Machine**

**Speaker**

Mr Ahmed Lethy

**AI/ML vision technology application to OSI search logic supporting**

**Speaker**

Mr Peng Li

**AI Enabled System for OSI IT/ISP Living/Working Area Management**

**Speaker**

Mr Peng Li

**Analyzing radioxenon spectra with machine learning algorithms to predict Activity Concentration of Each Isotope**

**Speaker**

Ms Sepideh A. Azimi

**Domain Informed - a better approach to regularization and semi-supervised learning for seismic event analysis**

**Speaker**

Ms Lisa Linville

**Research on Local Event Detection Method Based on Deep Convolutional Neural Network**

**Speaker**

Mr Jian Li

**Machine learning based earthquakes-explosion discrimination for Sea of Galilee seismic events of July 2018**

12:00 PM

**Speaker**  
Mr Yuri Bregman