



# CTBT: Science and Technology Conference 2023 - SnT2023

## Thursday, 22 June 2023

**Lightning talks: P3.5, P5.1 - Wintergarten (09:00 - 10:00)**

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[50] <b>The Multichannel Maximum-Likelihood Method: Towards a Multisource Detection and Wave Parameters Estimation Using Deep Learning</b>	Mr POSTE, Benjamin	1
[55] <b>On-site Estimation of the Arrival Time of an Acoustic, Seismic or Hydroacoustic Strongly Distorted Signals</b>	Dr VRACAR, Miodrag	2
[97] <b>Physics Guided Neural Network for Emplacement Classification and Yield and Depth of Burial of Estimations Using Time-Domain Source Functions - Algorithms</b>	SAIKIA, Chandan	3
[98] <b>Physics-Guided Neural Networks for Emplacement Classification and Events Discrimination, including the Explosion Yield and Depth Estimation - Applications</b>	Mr SOLOMON, Mitchell	4
[119] <b>Integration of Artificial Intelligence Techniques to the Mitigation of Anthropogenic Noise in Seismic Data from International Monitoring Stations in Rapidly Urbanizing Areas like Nairobi, Kenya</b>	ACHOLLA, Emmanuel	5
[123] <b>Seismic Events Classification Based on Feature Extraction and XGBoost Algorithm</b>	Ms WANG, Tingting	6
[167] <b>Recent Advances in Automated and Event-of-Interest Analysis of Infrasonic Events</b>	BLOM, Philip	7
[168] <b>A Python Tool for Evaluating Transient Noise on Seismic Array Components</b>	ROWE, Charlotte	8
[176] <b>Expansion and Transferability of a Convolutional Neural Network Deep Denoiser</b>	Mr KOCH, Clinton	9
[196] <b>Comparative Study of the Performance of Seismic Waveform Denoising Methods</b>	Mr TIBI, Rigobert	10
[207] <b>Regional Seismic Event Detection on Single Stations Using Deep Learning</b>	Mr BRYHN MYKLEBUST, Erik	11
[277] <b>A Statistical Approach to Estimate Station Magnitude Biases and Noise Levels</b>	RADZYNER, Yael	12
[282] <b>A Seismic Array Data Based Machine Learning Approach for Seismic Phase Classification and Back-Azimuth Estimation</b>	Mr KOHLER, Andreas	13
[318] <b>Applying Compression Metrics to Seismic Data to Assist Analysts</b>	Ms TING, Christina	14
[319] <b>Extending Utah Models for Event Discrimination to the Broader United States with Semi-Supervised Learning</b>	Ms LINVILLE, Lisa	15
[327] <b>Automatic Event Discrimination with Machine Learning Techniques at the Pizskés-tető Infrasonic Array, Hungary</b>	PÁSZTOR, Marcell	16
[331] <b>T-waves Propagation Modeling with High Performance Computing</b>	Mr OLIVEIRA, Tiago	17
[342] <b>Seismic Signal Classification Using Deep Neural Networks</b>	Mr AIT LAASRI, El Hassane	18
[348] <b>Testing a Paired Neural Network to Characterize Aftershock Sequences</b>	Ms EMRY, Erica	19

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<b>[396] High-Performance Computing Optimization of Broadband Range-Dependent Sound Propagation Simulations</b>	KUSHIDA, Noriyuki	22
<b>[408] Perspective of the International Monitoring System Seismic Event Location Capability Improvement with Ambient Noise Tomography</b>	Mr ROZHKOV, Mikhail	24
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<b>[457] Discrimination of a Seismic Event Based on Waveform Characteristics of Different Seismic Phases</b>	Ms LI, Xueyan Mr HOU, Xiaolin	26
<b>[461] Review of NET-VISA in Operational and Test Environments and Implications for the Event Definition Criteria</b>	NIKOLOVA, Svetlana	27
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