

CTBT: Science and Technology Conference 2023 - SnT2023

Thursday, June 22, 2023

Lightning talks: P3.5, P5.1 - Wintergarten (9:00 AM - 10:00 AM)

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

[365] International Monitoring System 3-Component Seismic Signal Detection Using the PhaseNet Deep Learning Model	Mr HECK, Stephen	20
[388] Australian National Data Centre Experience with the use of NDC-in-a-Box Software	NIKOLOVA, Svetlana	21
[396] High-Performance Computing Optimization of Broadband Range-Dependent Sound Propagation Simulations	KUSHIDA, Noriyuki	22
[408] Perspective of the International Monitoring System Seismic Event Location Capability Improvement with Ambient Noise Tomography	Mr ROZHKOV, Mikhail	24
[449] Advances in Application of Machine Learning to Seismic Monitoring Data Processing	Mr LI, Jian	25
[457] Discrimination of a Seismic Event Based on Waveform Characteristics of Different Seismic Phases	Ms LI, Xueyan Mr HOU, Xiaolin	26
[461] Review of NET-VISA in Operational and Test Environments and Implications for the Event Definition Criteria	NIKOLOVA, Svetlana	27
[480] Modeling Low Frequency Wind Generated Acoustic Noise	Mr STOCKINGER, Christopher	28
[483] Azimuth Estimation in Seismic Arrays via Deep Augmented MUSIC Algorithm	KHATIB, Malaak	29
[524] Seismic Discrimination between Nuclear Explosions and Natural Earthquakes Using Multi-Machine Learning Approaches	ELKHOULY, Shima	30
[529] Analysis and Simulation of Improved Seismic Data using Adaptive Processing by National Data Centre Iraq	Ms SHAMKHI, Yasameen Hameed	31
[626] Matched-Filter for Detecting Aftershocks of the 2014 MORMORI-ILAM Earthquake	KAHBASI, Iman	33
[656] Keeping an Eye on Reviewed Event Bulletin Quality – Recent Performance Compared to the Year 2012	Mr KOCH, Karl	34
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[758] Classification of Seismic Events Using a Cross-Correlation Based Approach	Mr ATMANI, Abderrahman	37
[780] Automatic Earthquake Detection Capabilities of PhaseNet and EQTransformer Using the 3 April 2017 Botswana M6.5 Earthquake and its Aftershocks.	MARITINKOLE, Joseph	38
[812] Graph Neural Networks for Seismic Yield Estimation	CASSAGNOU, Xavier	39
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