

Infrasound Technology Workshop 2024 (ITW2024)

Tuesday, 5 November 2024

Modelling and Network Processing - M2 (09:30 - 10:20)

time	[id] title	presenter
09:30	[159] Infrasound Arrivals in the International Data Centre Bulletins: Reviewing 14 Years of Results and Celerity-Range Model Changes	
09:55	[134] Machine learning categorization of infrasound detections across the Central and Eastern European Infrasound Network	

Modelling and Network Processing - M2 (10:50 - 12:05)

time	[id] title	presenter
10:50	[185] A Seiscomp pipeline for seismo-acoustic events	
11:15	[154] Signal arrival databases for Ground Truth infrasound events	
11:40	[170] Infrasound signals generated by production blasts in a nearby quarry	

Modelling and Network Processing - M2 (13:30 - 14:45)

time	[id] title	presenter
13:30	[163] Studying infrasound propagation in the middle atmosphere with ICON and UA-ICON: comparison with the IFS and ground-based remote sensing	
13:55	[164] Deep learning surrogate model for near real-time estimation of ground-level infrasound transmission losses	
14:20	[167] Construction of statistical models for infrasonic propagation: application to the detection capability of the IMS network.	

Wednesday, 6 November 2024

Modelling and Network Processing - M2 (09:55 - 10:20)

time	[id] title	presenter
09:55	[175] Learning Long-Range Infrasound Propagation Using Neural Operators	

Modelling and Network Processing - M2 (10:50 - 12:05)

time	[id] title	presenter
10:50	[143] Prediction of the Infrasound Transmission Loss Probabilities for New Station Deployment Using LSTM	
11:15	[116] Quantifying Atmospheric Uncertainty and Detection Quality Impacts on Infrasonic Localization	
11:40	[129] Comparison of 2-D and 3-D finite-difference simulations for infrasound propagation in heterogeneous atmospheres	