SnT 2025 CTBT: SCIENCE AND TECHNOLOGY CONFERENCE
8 SEPTEMBER ONLINE DAY
9 TO 12 SEPTEMBER AT HOFBURG PALACE, VIENNA & ONLINE

Improving Seismic Signal Classification through Novel Similarity-Based Techniques

LIGHTNING TALK

A. Atmani, E. H. Ait Laasri, M. Derife, N. Abboune, S. Afnzar, W. Dinne
National School of Applied Sciences – Ibn Zohr University (ENSA – UIZ)

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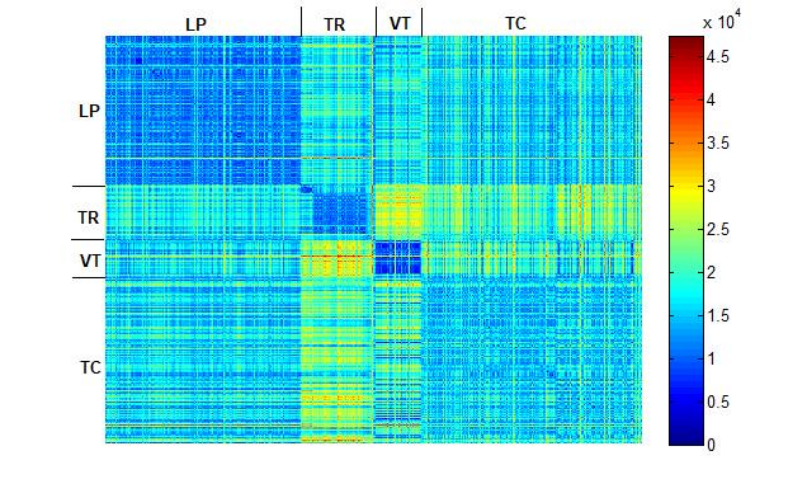
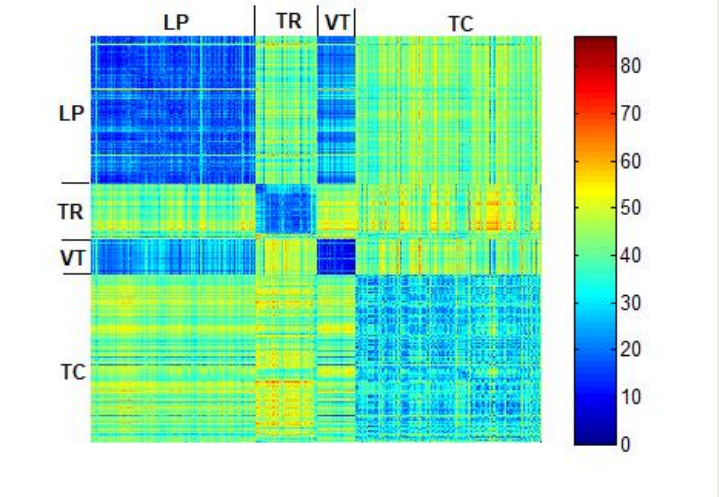
- Our poster is about a novel, simple, and computationally efficient approach for the classification of seismic events, based on the Euclidean distance function applied in both the frequency and time–frequency domains.
- The most important result of our work is an overall classification accuracy of approximately 80% in the frequency domain and 93.7% in the time–frequency domain.
- If you want to find out more, come over for a chat in front of our poster

Frequency domain

$$ED_{uv} = \sum_{i=1}^{n} |u(i) - v(i)|$$



VS



Time-frequency domain

$$ED_{uv} = \sum_{j=1}^{m} \sum_{i=1}^{n} |u_j(i) - v_j(i)|$$