

[<https://doi.org/10.69646/aob260918>]

[Poster]

Ionospheric Disturbances & Machine Learning: VLF Signal Variation Detection and Perspectives

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Abstract: Very Low Frequency (VLF; 3-30 kHz) radio signals' variations recorded in Belgrade (Serbia) were investigated by utilization of different machine learning techniques, in order to examine their possible relation to different types of natural hazards. Both VLF amplitude and phase data were inspected in time- and frequency-domain, revealing detectable data patterns with promising future research directions. Main findings are presented here.

Keywords: VLF signals, ionospheric disturbances, machine learning

Acknowledgement

The Institute of Physics Belgrade, University of Belgrade, supported this work with a grant from the Republic of Serbia's Ministry of Science, Technological Development, and Innovations. Authors acknowledge funding in the frame of the Serbian – Slovak bilateral project "AI in Practice: Automatic Detection of VLF/LF Ionospheric Disturbances using Machine Learning" (project no. 001147721/010)

and multilateral scientific and technological cooperation in the Danube region "Application of novel AI methods (Transformer Architectures) in analyzing Big data in Astrophysics (ionospheric and geomagnetic) and Physics (molecular magnetism)" DS2 (project no. 003614304 2025 13440 003 000 000 001 01 005).