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Remote Sensing and Machine Learning Applications in Atmospheric Physics, Weather, and Air Quality

Guest Editor:

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Deadline for manuscript submissions: **31 December 2024**



Dear Colleagues,

AI and machine learning applications have been the fastest-growing field in the past decade. However, only recently these applications have been applied to the field of atmospheric measurements and processes. While still challenging, this field has a wealth of data from satellites, airborne observations, or modeling with a very dynamic nature that can be tamed to produce new insights with the newest AI approaches and computational power available today.

This Special Issue seeks papers dedicated to remote sensing measurements. Specific topics include but are not limited to: (1) cloud and aerosol plume detection and identification, (2) prediction of fire smoke spread, (3) improved prediction of precipitation and cloud cover, (4) improved understanding of atmospheric dynamical processes, (5) implementing machine learning and observations to improve climate model parameterization schemes, (6) air quality and extreme pollution event identification and early warning, and (7) improved sets of satellite-based products, on high spatial and/or temporal resolutions from federal and commercial platforms.

Dr. Michal Segal-Rosenheimer Guest Editor





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