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# **Lidar for Atmospheric Remote Sensing**

Guest Editor:

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Deadline for manuscript submissions:

closed (25 December 2023)

## Message from the Guest Editor

Dear Colleagues,

Lidar systems are important tools for obtaining atmospheric profiles of density, temperature, wind and turbulence, as well as detecting minor gaseous species and clouds or particulate matter in the atmosphere. The high degree of automation that has been achieved has allowed lidar systems to be hosted on satellites or to set up automatic measurement networks, thereby contributing significantly to the increase in the understanding of atmospheric, meteorological and climatic physicalchemical processes, as well improving the ability to monitor the environment in real time. Recent technological and methodological innovations allows these systems to carry out measurements with unprecedented accuracy and resolution, while cutting-edge technologies in laser emission and signal detection systems, as well as innovative signal interpretation algorithms, pave the way systems of unprecedented capabilities, new miniaturization and low cost. This Special Issue invites contributions on lidar technology and developments, including new hardware design, innovative laser sources and detectors, and new environmental application fields.













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