Special Issue

Lidar for Atmospheric Remote Sensing

Message from the Guest Editor

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 physical–chemical 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 for new systems of unprecedented capabilities, miniaturization and low cost. This Special Issue invites contributions on lidar technology and algorithm developments, including new hardware design, innovative laser sources and detectors, and new environmental application fields.

Guest Editor

Dr. Francesco Cairo
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), 00133 Rome, Italy

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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