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Turbulent Atmosphere system has been developed and tested at the Remote Sensing Laboratory of the City College of New York, New York, NY. The system, which operates at a 20 kHz pulse repetition rate and acquires lidar return signals at 400 MSample/s, accumulates

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Radiophysical tools for measuring
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Turbulent Atmosphere have been considered the best for remote measurement of wind turbulence. This is important not only for understanding the exchange processes in the boundary layer, but also in the applied aspect, such as aviation safety.

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ABSTRACT Coherent Doppler lidar measurements are of increasing interest for the wind energy industry. Wind measurements are fundamental inputs for the evaluation of potential energy yield and performance of wind

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farms. Three-dimensional scanning Doppler lidar may provide a new basis for wind farm site selection, design and optimization.

Coherent Doppler lidar for wind farm characterization ...

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Many coherent lidars are used today with aerosol targets for detailed studies of e.g., local wind speed and turbulence. Fibre-optic lidars operating near $1.5 \mu\text{m}$ dominate the wind energy market,...

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controlled to have a constant rotational speed, and a lidar telescope. As a coherent Doppler lidar is sensitive to the speed component along the beam , the idea is to skim the top surface of

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the wheel with the beam. If the beam is perfectly tangential to the wheel, the surface speed of the wheel in its entirety will be

Flywheel Calibration of Coherent Doppler Wind Lidar

Coherent lidars can detect very

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Small frequency variations in collected weak light. A viable solution to remotely sense wind is thus to sense the Doppler shift induced on the received light scattered off aerosols suspended in the atmosphere. Fiber based systems are cost effective and

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robust, and can operate without
safety restrictions; they

Fiber Based Coherent Lidars for Remote Wind Sensing

aerosol optical property retrieval
from Doppler wind lidars (DWLs)
is presented in this work. Due to

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the strong wave-length dependence of the atmospheric molecular backscatter and the low sensitivity of the coherent DWLs to spectrally broad signals, calibration methods for aerosol lidars cannot be applied to coherent DWLs usually operating

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Retrieval of aerosol backscatter
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Coherent Doppler lidar (CDL)
enables measurement of wind
turbulence and wake vortices,
making it a useful tool when

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deciding the locations of turbines in a wind farm. 1-3 The system operates by transmitting a laser beam and then detecting the radiation backscattered by atmospheric aerosol particles. We can analyze the change in frequency (Doppler shift) of the

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backscattered signal to obtain the
line-of-sight (LOS) velocity
component of the air motion,
from which we then deduce the ...

Coherent Doppler lidar to
investigate wind turbulence

A doppler lidar system was used

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In the 2008 Summer Olympics to measure wind fields during the yacht competition. Doppler lidar systems are also now beginning to be successfully applied in the renewable energy sector to acquire wind speed, turbulence, wind veer, and wind shear data.

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Both pulsed and continuous wave systems are being used.

Lidar - Wikipedia

Coherent Doppler lidar is an attractive instrument for the global measurements of winds from a space-based platform

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(Baker et al. 1995; Huffaker et al. 1984; Huffaker and Hardesty 1996; Menzies 1986; Menzies and Hardesty 1989). The impact of Doppler lidar and other future data products can be determined using observing system simulation experiments (OSSEs).

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A chirped laser pulse can introduce artifacts into datasets of coherent Doppler wind lidars. At close vicinity of strong signal peaks undesired artificial velocities can be measured and continuous signals can be shifted

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by a constant factor. It is shown
how to remove these artifacts
and how to retrieve accurate
velocity estimations from both ...

Removing the Laser-Chirp
Influence from Coherent Doppler

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