



Mini Symposium

Windblown Sand Science and Engineering

organized by

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Windblown Sand Science and Engineering

Aims and Goals

Windblown sand is an emerging issue shaping landscapes in sandy coastal and desert environments, and affecting built environment, human activities, and ecological systems. The demand for innovative approaches to properly model and measure windblown sand transport, and for the design and performance assessment of mitigation techniques to cope with its undesired effects has gained momentum in both scientific literature and industrial practice.

From a **scientific perspective**, windblown sand phenomenon is characterized by its multiphysics nature, coupling wind fluid dynamics and sand erosion-transport-sedimentation-avalanching, and its multidisciplinary character, involving both fundamental and engineering disciplines.

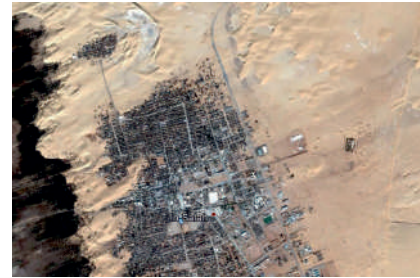
From an **industrial perspective**, a growing number of infrastructure projects are ongoing and planned in sandy regions across North Africa, Middle East, and Asia. In this context, industry needs sound design solutions, and can provide emerging challenging design issues and stimuli to research.

As a result, research in windblown sand science and engineering should be fostered by **bringing together several partially overlapping disciplines and scientific communities** sometimes shamefully apart, such as applied mathematicians, physicists, aeolian geomorphologists, coastal and wind engineers, as well as both academic and non-academic sectors.

The Mini Symposium **Windblown Sand Science and Engineering** is intended to help towards that end.



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Short Guide for Authors

- **4 pages extended abstract** required
- submission deadline: **December 15th, 2022**
- templates (Word and Latex) and online submission at www.icwe2023.com/abstract-submission
- High-quality presented papers will be selected for possible publication in a Virtual Special Issue of the Journal of Wind Engineering and Industrial Aerodynamics (JWEIA, Elsevier) as a full paper after the regular peer-review;
- Authors of all other presented papers will have the option of preparing a full-length peer-reviewed paper for online Proceedings (possibly by Springer Nature)
- online registration to the Conference at www.icwe2023.com/registration

For further information about the Mini Symposium, please contact the organizers:

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