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Remote Sensing in Support of Aeolian Research

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2019)

Message from the Guest Editor

Dear Colleagues,

Remote sensing provides a tool for mapping aeolian landforms and processes on Earth and in the solar system and can identify landforms, dune movement, dust production, composition, dispersal, and deposition. Given the proliferation of accessible spatial data and semi-automated mapping techniques, examining the response of aeolian systems to prevailing and changing winds is becoming increasingly feasible.

Dust source mapping has been successful in taking us from the regional basin scale to the landform level, however robust, automated dust source identification techniques are yet to be developed, which would also establish more detailed sediment supply and availability limitations.

Aeolian science requires a better integration into global earth systems and climate science, while the scale and magnitude of the human impact has not been quantified. We invite contributions that address these and other opportunities in aeolian research.

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Editor-in-Chief

Dr. Prasad S. Thenkabail
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Message from the Editor-in-Chief

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