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Modeling of Surface-Atmosphere Interactions

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Deadline for manuscript submissions:

closed (31 December 2021)

Message from the Guest Editors

This Special Issue launched in the framework of the workshop on "Numerical Weather Prediction in Portugal 2020" (https://sites.google.com/view/nwpportugal) aims to collect current novel papers, whether presented at the workshop or not, on the modeling of surface–atmosphere interactions. We invite researchers to contribute original research papers dealing with all aspects of the modeling of surface–atmosphere interactions, including:

- Modeling development, test, and validation;
- Surface observations and data assimilation;
- Surface reanalysis;
- Land–atmosphere interactions and feedback;
- Atmosphere–ocean interactions;
- Cryosphere–atmosphere interactions;
- Inland waters–atmosphere interactions;
- Boundary layer processes and modeling;
- Urban boundary layer;
- Atmospheric circulations over complex terrain;
- Land use and climate change;
- Fire–weather interactions and modeling;
- Dust mobilization;
- Transfer of greenhouse gases at the surface–atmosphere interface;
- Emission of pollen into the atmosphere.

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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