Special Issue

Typhoon and Extreme Precipitation and Wind Wave Prediction by Big Data Technology

Message from the Guest Editor

Nowadays, forecasting the behavior of complex typhoon systems has been a broad application domain for big data technology, such as machine learning, deep learning, neural networks, and Hadoop parallel computing. Particularly, predictions regarding rainfall, wind, and wind-wave caused by typhoons provide critical information that can be used for flood control and advanced disaster prevention preparations. This Special Issue focuses on applications of big data techniques and machine learning methodologies in the field of typhoon precipitation, wind, and wind-wave predictions. Topics of interest for publication include, but are not limited to the following:

- Predictions in rainfall, wind, and wind-wave caused by typhoons
- Big data technical developments in typhoon-induced problems
- Machine learning methodologies in typhoon-induced problems
- Deep learning methodologies in typhoon-induced problems
- Neural network-based methodologies in typhoon-induced problems
- Application of Hadoop framework and parallel computing

Guest Editor

Dr. Chih-Chiang Wei
Department of Marine Environmental Informatics, National Taiwan Ocean University, Keelung 20224, Taiwan

Deadline for manuscript submissions

closed (4 December 2020)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/31447

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

mdpi.com/journal/atmosphere

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/journal/atmosphere

MDPI

About the Journal

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!

Editor-in-Chief

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank:

CiteScore - Q2 (Environmental Science (miscellaneous))