

Special Issue

Applications of Big Data in Global Environmental Predictions

Message from the Guest Editor

Predictions of the global environment are a significant topic of environmental sciences, which aims to improve our knowledge of adaptation strategies for the future environment as well as improving prediction skill and mitigation strategies of environmental problems such as climate change, air pollution, and ocean acidification. The applications of global environmental predictions have recently improved in connection with “big data” such as data science, machine learning, and numerical modeling. By considering these recent improvements, this Special Issue invites papers that use big data to solve the problems related to global environmental prediction. Studies from specific areas of environmental science and interdisciplinary studies, covering, e.g., atmospheric science, biology, chemistry, ecology, and oceanography, are highly welcome.

Keywords

- global environment
- big data
- data science
- machine-learning
- numerical modeling
- prediction skill
- interdisciplinary study

Guest Editor

Dr. Yousuke Yamashita

National Institute for Environmental Studies, Ibaraki 305-0053, Japan

Deadline for manuscript submissions

closed (30 November 2020)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/30668

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

mdpi.com/journal/applsci





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, 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, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)