



entropy



an Open Access Journal by MDPI

## Applications of Information Theory in the Geosciences

Guest Editor:

**Prof. Dr. Benjamin L. Ruddell**

School of Informatics,  
Computing, and Cyber Systems,  
Northern Arizona University,  
Flagstaff, AZ, USA

Deadline for manuscript  
submissions:

**closed (31 July 2016)**

### Message from the Guest Editor

Dear Colleagues,

Information Theory is gaining many new applications in broad areas of Science, particularly the in the domain of Complex Adaptive Systems. These new applications often blend theoretical developments of Information Theory with innovative applications to complex-systems problems in the geosciences. This special issue specifically emphasizes research that addresses Geoscience problems using Information Theory approaches, by introducing a novel development of Information Theory for specific applications, and/or by solving a new Geoscience problem using the tools of Information Theory. Submissions at the boundaries of Information Theory, the Geosciences, and other disciplines are also welcome.

Prof. Benjamin L. Ruddell  
*Guest Editor*



[mdpi.com/si/1774](http://mdpi.com/si/1774)

Special Issue



*entropy*



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Kevin H. Knuth

Department of Physics, University  
at Albany, 1400 Washington  
Avenue, Albany, NY 12222, USA

## Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

*Entropy* is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [Inspec](#), [PubMed](#), [PMC](#), [Astrophysics Data System](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Physics, Multidisciplinary*) / CiteScore - Q1 (Mathematical Physics)

## Contact Us

---

*Entropy* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/entropy](http://mdpi.com/journal/entropy)  
[entropy@mdpi.com](mailto:entropy@mdpi.com)  
[X@Entropy\\_MDPI](https://twitter.com/Entropy_MDPI)