

## Special Issue

# Fractal and Multifractal Analysis of Complex Networks

### Message from the Guest Editor

Complex networks are an approach to studying different real systems through graph-based representation, which allows their observation with different graph measures, such as, among others, degree distribution, clustering coefficient, betweenness or assortativity. Currently, we know many interesting properties of real complex networks. These are, among others, scale-free, small-world, and also self-similarity, which is closely related to the (multi-)fractality of the complex system. Fractal and (in general) multifractal analysis allows identifying and better understanding the nonlinear properties, hierarchical structure, and spatial heterogeneity of both real-world and synthetic systems. This Special Issue will accept original ideas in the form of unpublished original manuscripts focused on topics arising from the broadly understood field of quantitative analysis of “complex networks”, in particular, their multiscale nature.

---

### Guest Editor

Dr. Rafał Rak

College of Natural Sciences, Institute of Physics, University of Rzeszów,  
35-310 Rzeszów, Poland

---

### Deadline for manuscript submissions

closed (15 July 2022)



## Entropy

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.0  
CiteScore 4.9  
Indexed in PubMed



[mdpi.com/si/65031](https://mdpi.com/si/65031)

*Entropy*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[entropy@mdpi.com](mailto:entropy@mdpi.com)

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





# Entropy

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.0  
CiteScore 4.9  
Indexed in PubMed



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



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Kevin H. Knuth

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

---

### 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)