



## Information Theory Applied to Communications and Networking

Guest Editors:

**Prof. Dr. Eduard A. Jorswieck**

Technische Universität Dresden,  
Chair for Communications  
Theory, Chemnitz Str. 48a,  
01187 Dresden, Germany

**Prof. Dr. Mikael Skoglund**

Communication Theory  
Department, School of Electrical  
Engineering, KTH Royal Institute  
of Technology, Stockholm,  
Sweden

Deadline for manuscript  
submissions:

**closed (31 July 2012)**

### Message from the Guest Editors

Dear Colleagues,

The Special Issue focuses on contributions based on Shannon's information concepts applied to problems in communications and networking.

When Shannon introduced his version of "entropy" and the related concept of "mutual information", he had problems in electrical communication in mind. Since then his theory has found a wide range of applications also outside the central field of telecommunications. The goal of this special issue is however to provide a modern view on problems in communications and networking, and the use of Shannon's notions to understand and characterize fundamental opportunities and limitations.

Prospective contributions should consider theory and problems motivated by the wide area of communications and networking. Shannon's original concepts of entropy and/or mutual information should be of central importance.

Prof. Dr. Eduard Jorswieck

Prof. Dr. Mikael Skoglund

*Guest Editors*





*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)