Message from the Guest Editors

Dear Colleagues,

Uncertainty characterization in risk and reliability has been addressed based on different approaches such as Bayesian thinking, possibilistic theory and fuzzy logic. Entropy has emerged as a promising approach due to its flexibility in representing uncertainty based on a multitude of evidence types as well as on different domains of application. Information entropy, maximum entropy and thermodynamic entropy have been the focus of current research clearly indicating the enormous scope and potential of entropy based uncertainty characterization and applications to several fields such as structural integrity and prognostics and health management. This special issue invites original papers on theoretical development in Entropy Based Uncertainty Characterization in Risk and Reliability as well as their applications in areas such as Probabilistic Physics of Failure, Structural Integrity, Prognostics and Health Management, Degradation and Damage Modeling, and Entropy Theory of Aging.

Prof. Dr. Mohammad Modarres
Assoc. Prof. Enrique López Droguett
Guest Editors
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 by the Science Citation Index Expanded (Web of Science), MathSciNet (AMS), Inspec (IET), Scopus and other databases.

**Rapid publication:** manuscripts are peer-reviewed and a first decision provided to authors approximately 19.9 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2019).

Contact Us

*Entropy*
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

entropy@mdpi.com
@Entropy_MDPI