# **Special Issue**

## Entropy-Based Methods for Finance and Risk Management

## Message from the Guest Editors

The concept of entropy originates from thermodynamics in the 19th century, but today is used in many research fields. In recent years, the applications of entropy in finance and economics have increased considerably, as demonstrated also by the significant number of papers in this field featured in many journals dealing with entropy-related topics In mathematics, an abstract definition of entropy is known as Shannon information entropy, but many definitions and applications of entropy have been proposed in the literature, thanks to the generality of its concept. In finance, entropy has been employed to understand turning points in foreign exchange rate time series, to propose an alternative measure to the standard deviation in stock markets, and to study option and asset pricing through an entropic methodology. In risk management, entropy-based measures of risk and rare-event probabilities have been introduced to innovate the traditional risk management tools, such as the value-at-risk. In this Special Issue, we welcome innovative contributions and applications in all areas of Finance and Risk Management in which any definition of entropy plays a central role.

#### **Guest Editors**

Assoc. Prof. Loretta Mastroeni

Department of Economics, Roma TRE University, Via Silvio d'Amico, 77, 00145 Roma, Italy

Dr. Pierluigi Vellucci

Department of Economics, Roma Tre University, Via Silvio D'Amico 77, 00145 Rome, Italy

## Deadline for manuscript submissions

closed (15 July 2023)



an Open Access Journal by MDPI

Impact Factor 2.0 CiteScore 5.2 Indexed in PubMed



mdpi.com/si/128829

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

mdpi.com/journal/ entropy





an Open Access Journal by MDPI

Impact Factor 2.0 CiteScore 5.2 Indexed in PubMed



## **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)

