Special Issue

Number Theoretic Methods in Statistics: Theory and Applications

Message from the Guest Editors

Number–theoretic methods (NTM) or quasi-Monte Carlo methods have played an important role in numerical integration in high dimensions, statistical inference, and experimental design, as well as having applications in engineering, biology, economics, and data science. This Special Issue will collate recent developments in NTM and its applications, including various kinds of representative points of distribution for statistical inference and resampling, including bootstrap.

Guest Editors

Prof. Kai-Tai Fang

1. Institute of Applied Mathematics, Chinese Academy of Sciences, Zhuhai 519088, China
2. Guangdong Provincial Key Laboratory of Interdisciplinary Research and Application for Data Science, Beijing Normal University–Hong Kong Baptist University United International College, Zhuhai 519087, China

Prof. Dr. Yongdao Zhou

School of Statistics and Data Science, Nankai University, Tianjin 300071, China

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

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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.

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Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

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