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Foundations of Statistics

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Message from the Guest Editors

Dear Colleagues,

Statistical induction is the *lingua franca* of scientific experimentation and plays a dual role in mathematical deduction. This very duality has not always been clear in the defense of particular schools of statistical inference thought. The writings in this Special Issue of *Entropy* explore the never-ending intellectual collation of those schools of thought in the context of the exciting challenges posed by the role of causation in statistical thought; the pervasive use of randomization as a panacea for not-so-good experiments; the business-as-usual performance of statistical hypotheses tests in Medicine and Science; the ambiguity of robots' availability; the disputed permanence of statistical principles.

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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.

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