# Special Issue

## Maxwell's Demon 2013

### Message from the Guest Editor

Since the earliest days of statistical mechanics, the existence of thermal fluctuations have posed a threat to our understanding of thermodynamics. This threat was vividly captured by Maxwell, who envisaged a nimble and light fingered being, able to systematically exploit and accumulate these fluctuations. With the latest developments in quantum nanotechnology, the manipulation of individual systems becomes a realistic possibility, while a modern consensus seems to have emerged that the being must still fail due to properties of information processing. Assessing the strength of these claims requires addressing many of the key open questions in the foundations of statistical mechanics.
Dr. Owen Marone

### Guest Editor

Dr. Owen Maroney
Faculty of Philosophy, University of Oxford, UK

### Deadline for manuscript submissions

closed (30 May 2013)

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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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## Editor-in-Chief

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