



## Complex Interdisciplinary Phenomena: Modeling and Analysis

Guest Editor:

**Dr. Tomas Veloz**

1. Center Leo Apostel, Vrije  
Universiteit Brussel, Pleinlaan 2,  
1050 Brussels, Belgium

2. Departamento de  
Matemáticas, Universidad  
Tecnológica Metropolitana, Las  
Palmeras 3360, 7800003 Ñuñoa,  
Chile

3. Fundación para el Desarrollo  
Interdisciplinario de la Ciencia, la  
Tecnología y las Artes, 8330307  
Santiago, Chile

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### Message from the Guest Editor

This Special Issue aims at proposing modeling frameworks and applications of collaborative processes of integration of knowledge and expertise originating from different disciplines, with emphasis on mathematical modeling and reasoning about these systems using concepts built upon information processing methods such as information theory, statistical physics, optimality, cybernetics, probabilistic inference, and others.

The Special Issue of interest include, but are not limited to:

- Information and statistical approaches to complex phenomena
- Mathematical modeling of sustainability and resilience and other systemic notions, with emphasis on complex analysis of aggregated information
- Mathematical modeling of complex socially driven phenomena with emphasis on complex analysis of aggregated information
- Complex biologically driven phenomena with emphasis on complex analysis of aggregated information
- Synergetic interactions and emergent phenomena in natural, human, and virtual systems





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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

## 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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Entropy Editorial Office  
MDPI, St. Alban-Anlage 66  
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