

entropy
2018

From Physics to Information Sciences and Geometry

14 – 16 May 2018, Barcelona, Spain

$$H(S) = - \sum p_i \log_2 p_i$$

$$D_{KL}(p||m) = \int \log(f(x))p(dx) - \int f(x) \log(f(x))m(dx)$$

$$S = -k_B \sum p_i \ln p_i$$

$$S = -k_B \text{Tr}(\rho \ln \rho)$$

Sponsorship and Exhibition Opportunities

The conference Entropy 2018: From Physics to Information Sciences and Geometry will be held from 14-16 May 2018 at the Faculty of Chemistry, University of Barcelona in Barcelona, Spain.

About the Conference

One of the most frequently used scientific words, is the word “Entropy”. The reason is that it is related to two main scientific domains: physics and information theory. Its origin goes back to the start of physics (thermodynamics), but since Shannon, it has become related to information theory. This conference is an opportunity to bring researchers of these two communities together and create a synergy. The main topics and sessions of the conference cover:

- Physics: classical Thermodynamics and Quantum.
- Statistical physics and Bayesian computation.
- Geometrical science of information, topology and metrics.
- Maximum entropy principle and inference.
- Kullback and Bayes or information theory and Bayesian inference.
- Entropy in action (applications).

The inter-disciplinary nature of contributions from both theoretical and applied perspectives are very welcome, including papers addressing conceptual and methodological developments, as well as new applications of entropy and information theory.

All accepted papers will be published in the proceedings of the conference. A selection of invited and contributed talks presented during the conference will be invited to submit an extended version of their paper for a special issue of the open access Journal Entropy.

Advantages

Sponsoring **Entropy 2018: From Physics to Information Sciences and Geometry** will give you a unique opportunity to present your company's products and to connect with scholars who are engaged in pioneer research on polymer science and engineering.

For an overview of the conference sessions, covered topics, and the preliminary schedule, please visit the conference website:

► <https://sciforum.net/conference/Entropy2018-1>

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The invoice for the order is payable within 30 days after receipt of the invoice.

Quoted prices include Spanish VAT.

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MDPI AG

St. Alban-Anlage 66

4052 Basel, Switzerland

Tel.: +41 61 683 77 34

Fax: +41 61 302 89 18

www.mdpi.com

entropy2018@mdpi.com

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