

From Physics to Information Sciences and Geometry

8 + 14-16 May 2018, Barcelona, Spain

 $\operatorname{H}(X,Y) = \operatorname{H}(X|Y) + \operatorname{H}(Y) = \operatorname{H}(Y|X) + \operatorname{H}(X)$

CHAIRMAN



Univ. Paris Saclay, Gif-sur-

The origin of the word "Entropy" 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)

 $H = \int_{-\infty}^{\infty} f(x) \log(f(x) \Delta) dx$

LOCAL CHAIR



at the University of Barcelona, Spair

SCIENTIFIC COMMITTEE

- · Kevin Knuth, University at Albany (SUNY), Albany, NY, USA
- · Frédéric Barbaresco, Thales Air Systems, Limours, France
- · Frank Nielsen, École Polytechnique, Palaiseau, France
- Mohammad Modares, University of Maryland, College Park, MD, USA
- · Pierre Baudot, CNRS, Pairs, France
- · Adom Giffin, Clarkson University, Potsdam, NY, USA
- · Ali Tahzibi, Departmen of Mathematics, Universidade de São Paulo, São Carlos-SP, Brazil
- · Nina Amini, CNRS, Paris, France
- Dawn E.Holmes, University of California, Santa Barbara, CA, USA

CONFIRMED MAIN SPEAKERS



Ariel Caticha



David Wolpert



Robert Niven



Jean-Christophe Pesquet



Ercan Kuruoglu



Jean-François Bercher



Paul Baggenstoss Wachtberg, Germany



Olivier Rioul



Jose M. Vilar



David Reguera



Prof. Dr. Stefano Mancini



Prof. Dr. Dick Bedeaux Trondheim, Norway

ORGANIZATION

Entropy, an Open Access Journal by MDPI

- entropy2018@mdpi.com
- sciforum.net / conference / Entropy2018-1
- @Entropy_MDPI / #entropy2018

DEADLINES

Early bird: 20 Mar. 2018

Abstract Submission: 23 Feb. 2018

Covering author registration: 16 Apr. 2018





