WORKSHOP

BIG DATA & ENVIRONMENT

Buenos Aires, 10-13 November 2015

Seizing the Data Deluge in Environmental Sciences

Scope

Like most sciences, Environmental Sciences have experienced a data deluge during the recent past with the explosion in the amount of data produced by sensors and models that monitor, measure and forecast the Earth system. This exponential trend in data availabity is expected to continue in the future thereby creating many new opportunities, needs and challenges. On the other hand, Big Data has emerged as a wide multidisciplinary dynamic which addresses challenges associated to large and complex data and encompasses diverse fields in Mathematics and Computer Science.

Format

The workshop will gather researchers that have an expertise in one of the two areas and some interest for the other. Its main goal is to explore the fruitful interplay between the two areas, and ultimately to help create new connections and collaborations between the scientific communities involved. Themes as diverse as spatial statistics, renewable energies, stochastic modeling, data assimilation, machine learning, risk management, data visualization among others are welcome.

Confirmed speakers

Marcelo Barreiro
Universidad de la República, Montevideo, Uruguay
Arthur Charpentier
UQAM, Montréal, Canada
Université de Rennes 1, Rennes, France
Eric Gilleland
NCAR, Research Applications Laboratory, Boulder, CO, USA
Trevor Hastie
Stanford University, Stanford, CA, USA
Amanda Hering
Colorado School of Mines, Golden, CO, USA
Eugenia Kalnay
University of Maryland, College Park, MD, USA
Vincent Lefieux
RTE, Paris, France
Pablo Mininni
Universidad de Buenos Aires, Argentina
Takemasa Miyoshi
RIKEN Advanced Institute for Computational Science, Kobe, Japan
Mathilde Mougeot
Université Paris Diderot, Paris, France
Doug Nychka
NCAR, Institute for Mathematics Applied to Geosciences, Boulder, USA
Axel Osses
Universidad de Chile, Santiago, Chile
Ignacio Pisso
NILU, Kjeller, Norway
Emilio Porcu
Universidad Técnica Federico Santa María, Valparaíso, Chile
Daniela Rodriguez
Universidad de Buenos Aires, Argentina
Carlos Sarraute
Gran Data, Buenos Aires, Argentina
Fabian Soto
Universidad de Chile, Santiago, Chile
Esteban Tabak
Courant Institute, New York, NY, USA
Pierre Tandeo
Institut Mines-Télécom, Brest, France
Peter Tankov
Université Paris Diderot, Paris, France
Isztar Zawadzki
McGill University, Montreal, Canada
And more.

Organized by

Alexis Hannart
CNRS, Institut Franco-Argentin d'Etudes du Climat, Buenos Aires, Argentina
Matthieu Jonckheere
CONICET, Instituto de Cálculo, Buenos Aires, Argentina
Juan Ruiz
CONICET, Centro de Investigaciones del Mar y la Atmosfera, Bs. Aires, Argentina
Guillermo Durán
CONICET, Instituto de Cálculo, Buenos Aires, Argentina
Esteban Feuerstein
University of Buenos Aires, Computer Science Dept., Buenos Aires, Argentina
Dominique Picard
Laboratoire de Probabilités et Modèles Aléatoires, Paris, France
Carolina Vera
CONICET, Centro de Investigaciones del Mar y la Atmosfera, Bs. Aires, Argentina

Venue

The workshop will be held on the campus of the University of Buenos Aires located in the neighborhood of Nuñez, Intendente Güiraldes 2160
Buenos Aires, Argentina.

More information and Registration

Deadline for registration: 10 Oct. 2015.
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