

# Please notice: minor changes to the program!

## Wednesday, July 6<sup>th</sup>

9:30-10:20 **Keynote: Sean McKenna**

Detecting Significance in Spatially Correlated Processes

### **Plenary Session 1**

Auditório José Mariano Gago

Chairman Amílcar Soares

10:20-10:40 Conditional Latin Hypercube Simulation on Large Grids

*Phaedon Kyriakidis, Stelios Liodakis and Petros Gaganis*

10:40-11:00 Joint identification of contaminant source location, initial release time and initial solute concentration in an aquifer via ensemble Kalman filtering

*Teng Xu and J. Jaime Gómez-Hernández*

### **Plenary Session 2**

Auditório José Mariano Gago

Chairman Dimitri D'Or

11:20-11:40 Unsupervised learning of multivariate geostatistical data: two algorithms

*Thomas Romary, Fabien Ors and Jacques Rivoirard*

11:40-12:00 Geostatistical Space-Time Data Integration for Legacy datasets

*Ana Horta, Amílcar Soares, Tiago B. Ramos, Maria C. Gonçalves and José C. Martins*

12:00-12:20 Geospatial Estimation of the Impact of Deepwater Horizon Oil Spill on Plant Oiling Along the Louisiana Shorelines

*Pierre Goovaerts, Cameron Wobus, Russell Jones and Matthew Rissing*

### **Parallel Session 1**

#### **Meteorology and Climate Change**

Auditório José Mariano Gago

Chairwoman Ana Cristina Costa

13:40-14:00 Empirical comparison of convergence properties of several estimators of the instantaneous continuous ranked probability score, with application to meteorological ensemble forecasts and quantile regression.

*Michaël Zamo*

14:00-14:20 A comparative study of historical masonry and simulation weathered stone blocks using a geostatistical approach

*Brian Johnston, Jennifer McKinley and Patricia Warke*

14:20-14:40 Toward to development of the new national climate monitoring products

*Melita Perčec Tadić*

14:40-15:00 Spatio-temporal assessment of aridity in northern Nigeria

*Adeoluwa Akande, Tami Palmer, Sara Ribeiro and Ana Cristina Costa*

## Surface and Subsurface Hydrology

Biblioteca

Chairwoman Marijke Huymans

- 13:40-14:00 Upscaling 3D Coupled Hydro Mechanical Properties of Statistically Fractured Porous Rocks  
*Israel Canamon and Rachid Ababou*
- 14:00-14:20 A hybrid inversion method to estimate hydraulic transmissivity using multiple-point statistics and the comparison model method  
*Alessandro Comunian and Mauro Giudici*
- 14:20-14:40 Groundwater flow modeling: uncertain boundary conditions and their impact on the forecast  
*Emanuel Huber, Jef Caers, Peter Huggenberger, Thomas Vienken, Manuel Kreck and Peter Dietrich*
- 14:40-15:00 Upscaling the Hydraulic Conductivity of a Fractured Porous Rock for Deep Geothermal Reservoir Modeling  
*Tawfik Rajeh, Rachid Ababou and Manuel Marcoux*

## Parallel Session 2

### Health

Auditório José Mariano Gago

Chairwoman Jennifer McKinley

- 16:10-16:30 Spatial Analysis of Drug Poisoning Deaths in the American West  
*Ruth Kerry, Pierre Goovaerts, Maureen Vowles and Ben Ingram*
- 16:30-16:50 Application of spatial prediction using kriging in monitoring change in pathogen distribution  
*Anna Szyniszewska, Frank van den Bosch and Titus Alicai*
- 16:50-17:10 A quality of life (QoL) Climate index for the United Kingdom  
*Laura Giuffrida, Julia Velastegui, Sara Ribeiro and Ana Cristina Costa*
- 17:10-17:30 Geostatistical uncertainty of assessing air quality using high-spatial-resolution lichen data: a health study in the urban area of Sines, Portugal  
*Manuel Ribeiro, Pedro Pinho, Esteve Llop, Cristina Branquinho, Maria João Pereira*

## Surface and Subsurface Hydrology

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Chairman Mikail Kanevsky

- 16:10-16:30 A conjunctive model of surface and groundwater for the U.S. to explore stresses on water resources  
*Laureline Josset, Maura Allaire, James Rising, Tara Troy, Tess Russo, Michelle Ho and Upmanu Lall*
- 16:30-16:50 Combining Inverse modeling with Decision Trees: an Exercise of Managing Data  
*Julio Cesar Gutiérrez-Esparza and J. Jaime Gómez-Hernández*
- 16:50-17:10 Macro-scale underground geomechanical and thermal mapping for very shallow geothermal applications  
*Francesco Tinti, Sara Kasmae Yazdi, Mohamed Elkarmoty, Bonduà Stefano, Villiam Bortolotti and Roberto Bruno*
- 17:10-17:30 Mapping factors influencing water table fluctuations in a Guarani aquifer system (gas) recharge area  
*Rodrigo Lilla Manzione and Paulo Milton Barbosa Landim*