Please notice: minor changes to the program!

Wednesday, July 6th

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 <u>Rachid Ababou</u>

14:00-14:20 A hybrid inversion method to estimate hydraulic transmissivity using
multiple-point statistics and the comparison model method
<u>Alessandro Comunian</u> and Mauro Giudici

14:20-14:40 Groundwater flow modeling: uncertain boundary conditions and their
impact on the forecast
*<u>Emanuel Huber</u>, 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
<u>Tawfik Rajeh</u>, 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
<u>Ruth Kerry</u>, Pierre Goovaerts, Maureen Vowles and Ben Ingram

16:30-16:50 Application of spatial prediction using kriging in monitoring change in
pathogen distribution
<u>Anna Szyniszewska</u>, 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 <u>Ana Cristina Costa</u>

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
*<u>Manuel Ribeiro</u>, Pedro Pinho, Esteve Llop, Cristina Branquinho, Maria João
Pereira*

Surface and Subsurface Hydrology   Biblioteca

Chairman Mikail Kanevsky

16:10-16:30 A conjuctive model of surface and groundwater for the U.S. to explore
stresses on water resources
*<u>Laureline Josset</u>, 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
<u>Julio Cesar Gutiérrez-Esparza</u> and J. Jaime Gómez-Hernández

16:50-17:10 Macro-scale underground geomechanical and thermal mapping for very
shallow geothermal applications
*<u>Francesco Tinti</u>, Sara Kasmaee Yazdi, Mohamed Elkarmoty, Borduà
Stefano, Villiam Bortolotti and Roberto Bruno*

17:10-17:30 Mapping factors influencing water table fluctuations in a Guarani aquifer
system (gas) recharge area
<u>Rodrigo Lilla Manzione</u> and Paulo Milton Barbosa Landim