



Joint ICTP-IUGG Workshop on Data Assimilation and Inverse Problems in Geophysical Sciences | (SMR 3607)

18 Oct 2021 - 29 Oct 2021 Virtual, Italy

Wednesday, 20 October 2021

15:00 - 17:00	Presentations by the workshop's participants (ORAL SESSION)
15:05	Determining the weights for the covariance matrix in a hybrid data assimilation scheme SIERRA LORENZO Maibys (Cuba)
15:20	Inverse problem by optimal shape in a hyperbolic differential equation IDRISSA Ly (Senegal)
15:35	Comparative study for global and local geophysical inversion methods in acoustic emission source location VESGA RAMIREZ Alejandra (Argentina)
15:50	Break (10')
16:00	Linear & nonlinear inversion methods in analysis of surface waves data POORMIRZAEE Rashed (Iran)
16:15	Data-driven multi-index overlay gold prospectivity mapping using geophysical and remote sensing datasets FORSON Dominic Eric (Ghana)
16:30	Q/A (30')

Thursday, 28 October 2021

09:00 - 11:00	Presentations by the workshop's participants (POSTER SESSION)
09:05	Estimation of Aquifer Protective Capacity Using Geoelectrical Method in Odo Ona Elewe, Ibadan, Nigeria ADEREMI Lucia Folasade (Nigeria)
09:10	Ionospheric signatures of Africa mid and Iow latitudes TEC during a geomagnetic storm on 19 February 2014 ANORUO Moses Chukwuma (Nigeria)
09:15	Assessing the dynamics of groundwater in Atebubu, the capital of the Atebubu-Amanten Municipality of Ghana BIENIBUOR Kpebbesaan Alfred (Ghana)
09:20	Microwave versus Optical Remote Sensing Data in Urban Footprint Mapping of the Coastal City of Jeddah, Saudi Arabia ELHAG Mohamed (Saudi Arabia)





09:25	Source Apportionment and Assessment of Air Quality Index of PM2.5–10 and PM2.5 in at Two Different Sites in Urban Background Area in Senegal KEBE Moustapha (Senegal)
09:30	Seismotectonics of Cameroon MBOSSI Ferdinand Eddy (Cameroon)
09:35	Reservoir-Triggered Earthquakes Around the Atatürk Dam (Southeastern Turkey) BÜYÜKAKPINAR Pinar (Turkey)
09:40	Data assimilation of volcanic eruption style using fluid dynamics method and thermodynamics principle: Case of Merapi in Indonesia IGOR COLLINS Djouda Paguem (Cameroon/UK)
09:45	Break (10')
09:55	Validation of Precipitation Products with dense network of rain gauges over Tamil Nadu, India SAMYKANNU Venkadesh (India)
10:00	Estimation of Evapotranspiration based on METRIC and SEBAL model using Remote sensing, near Al Jouf, Saudi Arabia YIBRIE Adem Esubalew (Ethiophia)
10:05	Investigation of Leachate Plume Migrations around a Dumpsite on a Basement Complex of South-western Nigeria using VLF-EM and ERT Techniques OJO Olufemi Akintayo (Nigeria)
10:10	Impact of radar data assimilation on the forecast of convective storms over the Cuba area FERRER HERNANDEZ Adrian Luis (Cuba)
10:15	First infrasonic records in the Ocean - Solid Earth - Atmosphere interaction in the Bahía de Banderas region LÓPEZ Ortiz Yair (Mexico)
10:20	Surface wave study beneath the Sumatra for preliminary upper crust investigation IRWANDI Irwandi (Indonesia)
10:25	Impact of the assimilation of data applied to SisPI on the forecast of tropical storm Eta as it landfall over the center of the country GONZALEZ Pedro (Cuba)
10:30	Modeling of Total Electron Content and Scintillation over the South American Longitudinal Sector OSANYIN Olusayo Taiwo (Brazil)
10:35	NIL MAITY Suman (India)
10:40	Q/A (20')





Thursday, 28 October 2021

15:00 - 17:00	Presentations by the workshop's participants (ORAL SESSION)
15:05	Crustal structure and discontinuities beneath the Nepal Himalaya using seismic ambient noise and teleseismic P wave coda autocorrelation THAPA Hari Ram (Nepal/Italy)
15:20	Shear wave splitting measurements in the Mexican Subduction Zone LEON SOTO Gerardo (Mexico)
15:35	Application of clustering-based stress inversions in the Vrancea-zone (SE-Carpathians) CZIROK Lili (Hungary)
15:50	Break (10')
16:00	Constraining the Source of Earthquake Using Time Reversal Seismic Data SHARMA DHAKAL Apsara (Nepal)
16:15	Estimation of cumulative evapotranspiration using superconducting gravity data PENDIUK Emmanuel Jonatan (Argentina)
16:30	Modelling volcano surface deformation with a poroelastic magma reservoir ALSHEMBARI Rami M. K. (Palestine/UK)
16:45	Q/A (15')