



8- Geodynamic Department

8-2 Gravity Laboratory

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* Scientific Publication (National& International)

1-Clustering Approach based K-Means Grey Wolf Optimization (KMGWO) algorithm of Seismic Zoning Partitioning to enhance Earthquakes Early Warning of Suez Rift in Egypt Mona M.Soliman, Salah Saleh, Ashraf Darwish, and Aboul Ella Hassanien submitted to Pur and applied Journal, 2019.

2-Impact of inherited structures on the Present-day tectonics of the Central Eastern Desert and Northern Red Sea, Egypt: evidence from 3-D Gravity inversion and seismicity Authors: Salah SALEH, A. R. MOUSTAFA, Vladimír POHÁNKA Journal: Submitted to the Arabian Journal of Geosciences, Springer, submitted to January 2019.

* Reviews of Papers (National& International)

Manuscript number GP-2019-2724. R2) entitled "A new contribution to the geology of the Egyptian Red Sea shelf using geophysical data ", by Ahmad Azab, Saada Ahmed Saada, Ali Ali El-Khadragy, submitted to Geophysical Prospection.

* Conferences , Scientific Missions & Workshops

The 25th year of the INTERGEO conference took place Sept. 17-19 at Messe Stuttgart in Stuttgart, Germany. The event is organized by DVW – German Society for Geodosy, Geoinformation and Land Management e.V., and sponsored by Hexagon, Trimble and Autodesk.

* Projects

1. The Principal Investigator (PI) of the project of the Lahun area in Fayoum funded by the Academy of Scientific Research and Technology entitled: (Detection of ancient Egyptian archaeological remains using modern integrated geophysical investigations, and the application of 3D Laser scanner for Archaeological replica: Pyramid of Senusret II area, Lahun, Fayoum, Egypt).

2. Participation in the project of evaluating the crustal movement of the High Dam Lake in Aswan.

3. Participate in the project of archaeo-prospection to detect the archaeological remains using the microgravity investigations, Sakkara region, Egypt.

* Consultancy

Participate in the development of the scientific proposal for micro-gravity studies to determine the dangerous places (such as caves and weak layers due to the spread of fractures or cracks..etc), below some oil reservoirs in the area of Al-alameen, the Northern Coast, Egypt

* Supervision of M.Sc. / Ph.D.

1-The main Supervisor for Miss. Sarah Adel (Master student), Gravity Laboratory, NRIAG

2-The main Supervisor for Mr. Gaber Magdy (Master student), Faculty of science, geology department, Helwan University

* Books

NA

* Other

1. Scientific mission to the State of Argentina from 15-01-2019 to 17-02-2019) travel to the State of Argentina - San Juan National University in the city of San Juan during a scientific visit from 15 January to 15 February 2019, at the invitation of Prof. Rosa Garbarino Rosa Garbarino, a professor at the National University of San Juan,