



## 7- Geomagnetism and Geoelectric Department

### 7-1 Geomagnetism Laboratory

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#### \* Scientific Publication (National & International)

• Gobashy, M. M., Abdelazeem, M., Abdrabou, M. and Khalil, M. H., 2019. Estimating Model Parameters from Self-Potential Anomaly of 2D Inclined Sheet using Whale Optimization Algorithm: Applications to Mineral Exploration and tracing shear zones: *Natural Resources Research (NRR)*, 1-21. <https://doi.org/10.1007%2Fs11053-019-09526-0>

Abdelrahman, E. M., Abdelazeem, M. and Gobashy, M. M., 2019. Minimization approach to depth and shape determination of mineralized zones from potential field data using the Nelder-Mead simplex algorithm: *Ore Geology Reviews*, 114. <https://doi.org/10.1016/j.oregeorev.2019.103123>

Maha Abdelazeem, Mohamed Sobhy Fathy & Mohamed Mostafa Khalifa, 2019. Integrating magnetic and stratigraphic data to delineate the subsurface features in and around new Galala City, Northern Galala Plateau, Egypt: *NRIAG Journal of Astronomy and Geophysics*, 8 (1), 131-143. <https://doi.org/10.1080/20909977.2019.1627634>

Faisal Rehman, Maha Abdelazeem, Mohamed M. Gobashy, Hussein M. Harbi and Saif ur Rehman, 2019. Application of Magnetic Method to Define the Structural Setting Controlling the Contaminated Area of Wadi Bani Malik, East Jeddah, Saudi Arabia: *Bollettino di Geofisica Teorica ed Applicata*, 60 (1), 97-122. DOI 10.4430/bgta0269

#### \* Reviews of Papers (National & International)

Study of generation and underground flow of acid mine drainage in waste rock pile in a uranium mine using electrical resistivity tomography (*Pure & Applied Geophysics*, PAAG-D-19-00180 & R1), April- October 2019. Utilizing the Geophysical and Hydrogeological Data for the Assessment of the Groundwater Occurrences in Gallaba Plain, Western Desert, Egypt. (*Pure & Applied Geophysics*, PAAG-D-18-00294R3), Jan. 2019.

#### \* Conferences, Scientific Missions & Workshops

ICCEEE 2019 organized in cooperation between Egypt-Japan university of Science and Technology (Egypt), and Tokyo Institute of Technology (Japan). 16-18 July, Borg Elarab, Alexandria, Egypt.

#### \* Projects

PI for a finished project entitled: "Implementation of the Geosciences to Construct the New Desert Urban, Site Management, and Distribute Resources; Pilot area: Moghra Oasis, Qattara Depression." ID: 15239 Financed by the STDF (Science & Tecnology Development Fund, Ministry of Higher Education and Scientific Research). Researcher A in a running project entitled: "Exploration of Economic Minerals (Gold, Iron &, Copper) using Geophysical Techniques in South Eastern Desert, Egypt, Pilot areas: Eastern part of Aswan and Wadi Allaqi." ID: 25288 Financed by the STDF (Science & Tecnology Development Fund, Ministry of Higher Education and Scientific Research). Researcher A in a running project entitled: "Exploring carbonatized ultramafic rocks (listvenite) for gold occurrences in the Qena-Safaga-Quseir area (Golden Triangle) and its impact on development plans, Eastern Desert, Egypt" ID: 26277 Financed by the STDF (Science & Tecnology Development Fund, Ministry of Higher Education and Scientific Research).

#### \* Consultancy

Magnetic data interpretation and written report on New Capital city, 2019.