



8- Geodynamic Department

8-2 Gravity Laboratory

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* Scientific Publication (National& International)

- 1) Saadon, A., Elsaka, B., El-Ashquer, M. and El-Fiky, G. (2019): Regional Evaluation of GOCE-Based GGMs with Ground-Based Gravity and GPS/Levelling Data over Egypt. International Journal of Geosciences. 10, 652-668. <https://doi.org/10.4236/ijg.2019.106037>.
- 2) Elsaka, B. (2019): Spatio-Temporal Polar-Inclined Space Mission Architecture for a Refined Retrieve of the Earth's Gravity Field. World Journal of Engineering and Technology, (Accepted).

* Reviews of Papers (National& International)

NA

* Conferences , Scientific Missions & Workshops

- القيام بعمل ورشة عمل علمية (نظرية و عملية) لحساب موديلات سطح الجيوييد من بيانات التناقلية الأرضية والأقمار الصناعية لزملائي بقسم ديناميكية الأرض بالمعهد القومي للبحوث الفلكية والجيوفيزيكية بقاعة الأستاذ الدكتور مدور في الفترة من ٠١ يناير إلى ٠٣ يناير ٢٠١٩ ، وإلقاء محاضرات بعنوان Satellite-based Gravity Data: Introduction to Satellite Gravimetry and Spherical Harmonics. II. Ground-based Gravity Data: Gravity Measurements and their Reductions. III. GRAVSOF: Introduction to GRAVSOF Programs to Deal with Satellite- and Ground-based data. IV. Data Evaluation: Comparison of Satellite-based Geopotential Models over Egypt on a grid- and point-wise scale. V. Geoid Modelling: Geoid Heights Modeling from Gravity Field Anomalies using Remove-Compute-Restore Process and Least Squares Collocation Approach. VI. Performing a Successful Relative Gravity Survey

* Projects

NA

* Consultancy

NA

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

Supervised Ph.D. Dissertations: PhD. of Eng. Ossama Sayed Ali (2019) Geodynamic and Geoid Height Assessment of the Eastern and Western Parts of the Arabian Plate. Civil Engineering Dept., Faculty of Engineering, University of Aswan, Aswan, Egypt. (Supervised by: Prof. Ayman Mahmoud Othman, Dr. Basem Elsaka). Supervised M.Sc. Dissertations: M.Sc. of Eng. Ahmed Saadon (2019) On the Computation of Gravimetric Geoid of Egypt using Different Estimation Techniques. Construction Engineering and utilities Dept., B.Sc. Civil Engineering - Faculty of Engineering - Zagazig University. (Supervised by: Prof. Gamal El-Fiky, Dr. Basem Elsaka and Dr. Mohamed El-Ashquer).

* Books

NA

* Other

NA