

Editorial board member

2014 Global Journal of Earth Science and Engineering

2010 Journal of Geodestic Science

Teaching Experience

MASTER LEVEL: Teaching the following courses of Master Programme of Geomatics Engineering
University of Khartoum

8. **Abdalla, A.** (2015) Temporal variations of the Earth gravity field and gravimetric geoid model captured by time series of GRACE monthly data. Geodesy Day University of Khartoum.
9. **Abdalla, A.**, Tenzer, R (2012) Compilation of the regional quasigeoid model for New Zealand using the discretized integral-equation approach. Journal of geodetic science.
10. **Abdalla, A.**, Fashir, H.H., Ali, A., Fairhead, D., (2012) Validation of Recent GOCE/GRACE Geopotential Models Over Khartoum State – Sudan , Journal of Geodetic Sciences, DOI: 10.2478/v10156-011-0035-6
11. Tenzer, R., Dayoub, N. and **Abdalla, A.** (2012) Analysis of a relative offset between vertical datums at the North and South Islands of New Zealand. Journal of Applied Geomatics.
12. **Abdalla, A.**, Tenzer, R., (2012) The global geopotential and regional gravimetric geoid/quasigeoid models testing using the newly adjusted levelling dataset for New Zealand Applied Geomatics, DOI:10.1007/s12518-012-0089-x
13. Tenzer, R., Čunderlík, R., Dayoub, N. and **Abdalla, A.** (2011) Application of the BEM approach for a determination of the regional marine geoid model and the mean dynamic topography in the South-west Pacific Ocean and Tasman Sea., Journal of Geodetic Science, DOI: 10.2478/v10156-011-0019-6
14. Tenzer R, Vátrt V, Luzi G, **Abdalla A**, Dayoub N (2011) Combined approach for the unification of levelling networks in New Zealand. Journal of Geodetic Sciences
15. **Abdalla A**, Fairhead D (2011) A new Geoid model for Sudan using the KTH method. J of African Earth Sciences.
16. **Abdalla A**, Tenzer R (2010) The evaluation of the New Zealand's geoid model using the KTH method. Journal of Geodesy and Cartography. doi:10:3846/13921341-2011-558326
17. Tenzer R, Novák P, Vajda P, Ellmann A, **Abdalla A** (2011) Far-zone gravity field contributions corrected for the effect of topography by means of Molodensky's truncation coefficients. Studia Geophysica et Geodaetica.
18. Tenzer R, **Abdalla A**, Vajda P, Hamayun (2010) The spherical harmonic representation of the gravitational field quantities generated by the ice density contrast. Contributions to Geophysics and Geodesy, 40(3): 207- 223.
19. Čunderlík R, Tenzer R, **Abdalla A**, Mikula K (2010) The quasigeoid modelling in New Zealand using the boundary element method. Contributions to Geophysics and Geodesy.
20. Tenzer R, Vátrt V, **Abdalla A**, Dayoub N (2010) Assessment of the LVD offsets for the normal-orthometric heights and different permanent tide systems. Applied Geomatics.

Conference proceedings

1. **Abdalla A**, Ali A (2018) Combined refinement for DEM using low-pass convolution filters and a fitting model. International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE), 12-14 August 2018, Khartoum, Sudan.
2. Mustafa M, **Abdalla A** (2018) Determination of horizontal displacement in a part of Sudan conventional triangulation network using GNSS. International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE), 12-14 August 2018, Khartoum, Sudan.
3. **Abdalla A**, Green C (2018) GEOWARE: An optimised Matlab software for determination of high-frequency geoid model using relational operators. International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE), 12-14 August 2018, Khartoum, Sudan.
4. Elmahal, A., Ganawa, E., **Abdalla, A.**, Salih, A. (2015) Understanding the Common Morphometric Relationships in Hyper-arid Regions Using Remote Sensing and GIS Techniques Case Study: Northern State, Sudan. International Forum on the scarcity and water harvesting, control in semi-arid areas, Hurghada, Egypt

5. **Abdalla A.**, Anwar, A., Jafar, M., Yousif, M., and Eltayeb, Y., (2015) Multi-station baseline calibration of errors induced by phase inhomogeneity in electronic distance measurement devices, International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering, 2015, Khartoum, Sudan
6. **Abdalla A.**, Elmahal, A., (2015) Augmentation of Vertical Accuracy of Digital Elevation Models Using Gaussian Linear Convolution Filter, International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering, 2015, Khartoum, Sudan
7. **Abdalla A.**, Tenzer, R., (2014) The integral-equation-based approaches for modelling the local gravity field in the remove-restore scheme, International Association of Geodesy Symposia
8. Tenzer, R., **Abdalla A.**, Gan, L (2012) The differences between the normal, Orthometric and normal orthometric heights in New Zealand, International Association of Geodesy Symposia (**Abstract**)
9. Tenzer, R., **Abdalla A.**, Gan, L (2012) Joint adjustment of the levelling networks in New Zealand using levelling, tide-gauge, and EGM08 gravity data, International Association of Geodesy Symposia (**Abstract**)

Conference presentations

1. **Abdalla A.**, Ali A (2018) Combined refinement for DEM using low-pass convolution filters and a fitting model. International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE), 12-14 August 2018, Khartoum, Sudan, (**oral presentation**).
2. Mustafa M, **Abdalla A** (2018) Determination of horizontal displacement in a part of Sudan conventional triangulation network using GNSS. International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE), 12-14 August 2018, Khartoum, Sudan, (**oral presentation**).
3. **Abdalla A.**, Green C (2018) GEOWARE: An optimised Matlab software for determination of high-frequency geoid model using relational operators. International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE), 12-14 August 2018, Khartoum, Sudan (**oral presentation**).
4. **Abdalla, A.**, Denker, H., Müller, J (2018) A Combined optimisation of local and global gravimetric data to improve geoid modelling in Sudan. European Geosciences Union (EGU). EGU General Assembly 2018 (8-13 April 2018). Vienna, Austria (**poster presentation**).
5. **Abdalla, A.**, Naemi, M., Weiglet, M., Müller, J (2018) On the hydrological mass variations in Sudan: Based on GRACE satellite gravimetry and global hydrological models. European Geosciences Union (EGU). EGU General Assembly 2018 (8-13 April 2018). Vienna, Austria (**poster presentation**)
6. Elmahal, A., **Abdalla, A.** (2017) Assessing the Impacts of Bridges on the Development of Fluvial Islands Using Remote Sensing and GIS: Case Study on the Islands of Khartoum State up to Sabaloka Gorge, Khartoum State, Sudan (**oral presentation**)
7. Mohammed, I, **Abdalla, A.**, Nuh, H. (2017) Estimating Soil Erosion Using Universal Soil Loss Equation and GIS in Algash Basin. ICRSG 2017 : 19th International Conference on Remote Sensing and Geomorphology, At Jeddah, Saudi Arabia (**oral presentation**)
8. Elmahal, A., Ganawa, E., **Abdalla, A.**, Salih, A. (2015) Understanding the Common Morphometric Relationships in Hyper-arid Regions Using Remote Sensing and GIS Techniques Case Study: Northern State, Sudan. International Forum on the scarcity and water harvesting, control in semi-arid areas, Hurghada, Egypt (**oral presentation**)
9. Elmahal, A., Khidir, N., Elkhidir, S., **Abdalla, A.**, Elsheikh, A. (2015) Hydro-geomorphological Interpretations from Watershed and Change detection investigations using Remote Sensing and GIS Techniques. 4th International Geoscience and Geomatics Conference, 23-25 November 2015, Manama, Bahrain (**oral presentation**)

10. Abdalla A

16. Tenzer R, Gan L, Čunderlík R, **Abdalla A** (2011) On some problems with the realization of the World Height System in New Zealand. Institute of Geodesy and Photogrammetry, Malaysia University of Technology, Skudai, Johor, Malaysia, 1st of April 2011 (**invited oral presentation**).
17. **Abdalla A**, Tenzer R (2010) A compilation of the new geoid model in New Zealand using the KTH method. Active Earth Processes Workshop 2010, Otago University, Dunedin, 18 November 2010 (**oral presentation**).
18. **Abdalla A**, Tenzer R (2010) First results of a new gravimetric geoid model for New Zealand. Surveying research seminar series, School of Surveying, Otago University, Dunedin, New Zealand, 12th of February, 2010 (**oral presentation**).
19. Tenzer R, **Abdalla A** (2010) Comparison of the new gravimetric geoid model KTH-NZ2010.v1 with existing quasigeoid models for New Zealand. Surveying research seminar series, School of Surveying, Otago University, Dunedin, New Zealand, 12th of February, 2010 (**oral presentation**).

Supervision

MASTER LEVEL:

2014–to-date **University of Khartoum**
 Mohamed Elmustafa Omer Eid (4/2017-8/2018)
 Bahaeldin Adam (2015-2016)
 Mohamed Ahmed Eltigani (2015-2016)
 Issameldin Mohamed Elsheikh (2015-2016)

BACHELOR LEVEL: **Students by universities**

2015–2016 Mohamed Elmuntasir (**University of Khartoum**)
 Mohamed Jaafar (**University of Khartoum**)
 Alwaleed Abdelmajeed (
 University of Khartoum

Mohamed Abdelrahman (**University of Khartoum**)
Mohamed Samuel (**University of Khartoum**)
Mohamed Elmustafa (**University of Khartoum**)
Mohamed Sami (**University of Khartoum**)
Abdelrashid Taha (**University of Khartoum**)