Curriculum Vitae

Faculty of Engineering

Mohamed Ibrahim Zahran
Professor and Ex Vice Dean of Postgraduate Studies and Research Affairs.

Vice-Chair of Egyptian Permanent Scientific Committee for the Promotion of Professors of Public Works Engineering

Nationality	Egyptian
Home Address	111 K, Hadayek Alahram, Giza
Work Address	Faculty of Engineering at Shoubra, Benha University, 108 Shoubra St., Cairo
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Qualifications

- Ph.D. (Photogrammetry), Department of Civil and Environmental Engineering and Geodetic Science, The Ohio State University, 1997.
- M.Sc. (Surveying and Photogrammetry), Department of Civil Engineering, Faculty of Engineering, Cairo University, 1989.
- B.Sc. (Surveying Engineering), Faculty of Engineering at Shoubra, Benha University, with general grade of Very Good (82.4%) with Honor Degree, 1984.

Academic Positions

Positions at the Faculty of Engineering at Shoubra, Benha University:

- Vice Dean of Post Graduate Studies and Research Affairs, July 2018 – July 2021
- Acting Vice Dean of Education and Student Affairs, Sep. 2017 – July 2018
- Head of Surveying Engineering Dept., Aug. 2013 – Aug. 2017

- Professor, 2008 –
- Associate Professor, 2003 – 2007
- Assistant Professor, 1997 – 2002
- Lecturer, 1989 – 1992
- Teaching assistant, 1985 – 1988

Consultation Work

- Consultant at the Center of Engineering Studies and Consultations CESC, Faculty of Engineering at Shoubra, Benha University.

Quality Assurance Experience

- Auditor at Quality Assurance and Accreditation Center, Benha University (2017-).

Teaching Career

- Undergraduate courses in Surveying, Photogrammetry, Remote Sensing and Adjustment Computations.

- Postgraduate courses in Analytical Photogrammetry, Remote Sensing, Digital Photogrammetry, and Adjustment Computations.

Research Interests

- Digital/Automated Photogrammetry
- Digital Image Processing and Analysis
- Mapping Applications of Remote Sensing
- Environmental Applications of Remote Sensing

Supervised Dissertations

- Refaei, M. F. "Accuracy Assessment of UAV Photogrammetric Mapping." Department of Surveying Engineering, Faculty of Engineering, Benha University, M.Sc. Dissertation, Ongoing.
- Elbadawy, H. E. "Automatic Building Extraction from Digital Imagery and LiDAR Data." Department of Surveying Engineering, Faculty of Engineering, Benha University, M.Sc. Dissertation, 2020.
- Hagag, M. A. "Towards Automated Generation of True Orthoimages for Urban Areas." Department of Surveying Engineering, Faculty of Engineering, Benha University, M.Sc. Dissertation, 2019.
- Saleh, T. M. "Accuracy Assessment and Enhancement of Rational Polynomial Coefficients of Satellite Imagery." Department of Surveying Engineering, Faculty of Engineering, Benha University, M.Sc. Dissertation, 2018.
- Hassan, H. M. "Assessment of land use land cover classification and bathymetry detection over shallow coastal and lake zones using machine learning algorithms." Department of Environmental Engineering, Egypt-Japan University of Science and Technology, Ph.D. Dissertation, 2017.
- Alshwehdi, O. R. "Accuracy Enhancement of Orthoimage Generation for Urban Areas." Department of Civil Engineering, Faculty of Engineering, Benghazi University, M.Sc. Dissertation, 2009.
- Housat, A. M. "Interactive versus Matching-based Procedures for Digital Aerial Triangulation Utilizing Natural Ground Control."

Department of Civil Engineering, Faculty of Engineering, Benghazi University, M.Sc. Dissertation, 2007.

- Amin, H. H. "Potential Positioning Accuracy of High-Resolution Satellite Imagery." Department of Surveying Engineering, Faculty of Engineering, Benha University, M.Sc. Dissertation, 2004.

Selected Publications

- Tamer Saleh, Mohamed Zahran, Shimaa Holail, Gui-Song Xia, "PDCA-FORMER: Prior-Diagonal Cross Attention-Guided Transformer for Flood Mapping from SAR: A case in Khartoum", Accepted for publication in ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences on 2 July, 2023.
- Haidy Elsayed, Mohamed I. Zahran, Ayman R. El-Shehaby, and Mahmoud S. Gomaa, "Integrating Modern Classifiers for Improved Building Extraction from Aerial Imagery and LiDAR Data", American Journal of Geographic Information System, Vol. 8, No. 5, 2019.
- Mehad Haggag, Mohamed Zahran, and Mahmoud salah, "Towards Automated Generation of True Orthoimages for Urban Areas", American Journal of Geographic Information System, Vol. 7, No. 2, 2018.
- Hassan Mohamed, Abdelazim Negm, Mohamed Zahran, and Oliver Saavedra, "Assessment of Ensemble Classifiers Using Bagging Technique for Improved Land Cover Classification of Multispectral Satellite Images", The International Arab Journal of Information Technology IAJIT, Vol. 15, No. 2, 2018.
- Tamer Saleh, Mohamed I. Zahran, Ayman R. El-Shehaby, and Mahmoud S. Gomaa, "Performance enhancement of Rational Function Model (RFM) for improved geo-position accuracy of IKONOS stereo satellite imagery", Journal of Geomatics, Vol. 12, No. 1, 2018.
- Hassan Mohamed, Abdelazim Negm, Mahmoud Salah, Kazou Nadaoka and Mohamed Zahran, "Assessment of proposed approaches for Bathymetry Calculations Using Multispectral Satellite Images in Shallow Coastal/Lake Areas: A Comparison of Five Models", Arabian Journal of Geosciences AJGS, Vol. 10, No. 1, 2017.
- Hassan H. M., A. M. Negm, M. I. Zahran, and O. C. Saavedra "Bathymetry Determination from High Resolution Satellite Imagery Using Ensemble Learning Algorithms in shallow Lakes: Case study El Burullus lake." International Journal of Environmental Science and Development IJESD, Vol. 7, No.4, 2016.
- Zahran, M. I. "Comparative Analysis of Feature Point Matching Techniques for Stereo Image Orientation." Regional conference on Surveying and development, Sharm El-Sheikh, Egypt, 2015.
- Hassan H. M., A. M. Negm, M. I. Zahran, and O. C. Saavedra

Selected Publications	"Assessment of artificial neural network for bathymetry estimation using high resolution satellite imagery in shallow lakes: case study El-Burullus lake." International Water Technology Journal IWTJ, Vol. 5, No. 4, 2015.
	▪ Zahran, M. I. "Towards Generating Accurate Orthoimages for Urban Areas." Journal of Engineering and Applied Sciences, Vol. 56, No.5, 2009.
	▪ Zahran, M. I. "Mono-Image Intersection for Orthoimage Revision." Ain Shams Engineering Bulletin, Vol. 42, No.1, 2007.
	▪ Zahran, M. I. "Automatic Extraction and Matching of Interest Points on Stereo Aerial Imagery." Alexandria Engineering Journal AEJ, Vol. 46, No.5, 2007.
	▪ Zahran, M. I. "Least-Squares Versus Cross Correlation Techniques for Matching Aerial Imagery." Ain Shams Engineering Bulletin, Vol. 41, No.2, 2006.
	▪ Zahran, M. I. "Automatic Recognition of Highway Lane Borders From Large Scale Digital Images." Ain Shams Engineering Bulletin, Vol. 41, No.2, 2006.
	▪ Zahran, M. I. "A proposed Search Approach for Image Matching Using Epipolar Constraint." Alexandria Engineering Journal AEJ, Vol. 45, No.3, 2006.
	▪ Zahran, M. I. "Automatic Registration of Digital Satellite Imagery by Matching Linear Features." Ain Shams Engineering Bulletin, Vol. 40, No.3, 2005.
	▪ Zahran, M. I. "A Semi-Automatic Procedure for Digital Elevation Model Generation from Stereo Digital Imagery." Alexandria Engineering Journal AEJ, Vol. 44, No.5, 2005.
Awards/Scholarships	▪ USAID Fellowship for training and research at The Ohio State University (Jan. 1992 - Aug. 1993).
	▪ The Ohio State University Teaching Assistantship; covering tuition, fees and living expenses for PhD Students (Sept. 1993 – Aug. 1997).
Social Experience Abroad	▪ Treasurer of the Egyptian student association of North America at Columbus, Ohio, USA (1994-1995).
	▪ Chairperson of the Egyptian student association of North America at Columbus, Ohio, USA (1995-1996).
	▪ Secretary of the graduate student club of Geodetic Science department at The Ohio State University (1995-1996).