

CV For Dr. Wiesam A. Essa

Dept. of Geography
Al-AQSA University, Khan Younis
Mobile: 0599785989
Email: Wiesam@alaqsa.edu.ps

EDUCATION

Ph.D – Thermal Subpixel Estimation in Urban Areas with Spaceborne Sensing (August 2008- June 2012) Hydrology Department, Faculty of Engineering, Building T , Room 215, Pleinlaan 2, 1050 Brussel, Vrije Universiteit Brussel, BELGIUM

Professional Master in Land Degradation and Conservation Using the Application of Remote Sensing and GIS (September 2004) International Institute for Geo-Information Science and Earth Observation, ITC, Netherlands

Summer Academic Programme of Sustainable Development Strategies (2000) University of the Middle East (organized by Boston University - USA), Morocco.

One-year program of Advanced Environmental Studies (1998-99) Arava Institute of Environmental Studies, Tel Aviv University, Israel

B.Sc. Environment and Earth Science (February 1993-97) Islamic University of Gaza, Palestine

Secondary School Diploma (1991-93), Taha Hussein Secondary School, Rafah, Palestine

COURSES

28 days Training Course in “Developing Approaches to Preventing and Mitigating Community Conflict”, Atlantic Center for the Environment, USA (June 2006)

35 days training course in GIS Technology for Sustainable Management of Natural Resources and Agricultural Products (Aug 18, 2005 to Sep 21, 2005) Japan International Cooperation Agency - JICA, Nagoya University, Japan

120 hours training course in Diffusion and effective management of GIS-Information Technology within organizations and beyond (a people-centered approach) (2004) elective course at the ITC, Enschede, Netherlands

120 hours training course in Project Formulation and International funding (2004) ITC, Enschede, Netherlands

120 hours training course in different Project Cost Benefit Analysis - CBA (2004) ITC, Enschede, Netherlands

126 hours training program in Training of Projects Managers (2003) funded by Civil Society & Democracy Strengthening Project (TAMKEEN – USAID funded project) with cooperation with the Islamic University of Gaza, Palestine

50 hours training for Test of English as a Foreign Language (TOEFL) Community Service and Continuing Education Centre, Palestine

30 hours classroom instruction in English as a second language Light to the Nations (NGO), Palestine

First Environmental Summer Training Camp for Facilitators (1998) Community Development Programme, Palestine

36 hours Community Health Education Training Course (1998)

United Nations Development Programme, Palestine

Computer programs (DOS, Windows, MSW, Excel, FORTRAN 77, SPSS, Photoshop and Typing in English and Arabic) Al-Aklouk Computer Center, and other institutions and centers / Rafah and University of Gaza, Palestine

LANGUGES

Arabic and English

PUBLICATIONS

Essa, W., Verbeiren, B., Van der Kwast, J., & Batelaan, O. Downscaling of thermal images over urban areas using the land surface temperature - impervious percentage relationship. *Int. J. Applied Earth Observation and Geoinformation*, 23 (2013), 95-108.

Essa, W., Verbeiren, B., Van der Kwast, J., & Batelaan, O. (2012). Evaluation of DisTrad Thermal Sharpening for Urban Areas. *Int. J. Applied Earth Observation and Geoinformation*, 19 (2012), S. 163-172

Essa, W., Verbeiren, B., Van der Kwast, J., & Batelaan, O. Downscaling of thermal images over urban areas using the land surface temperature - impervious percentage relationship. *Int. J. Applied Earth Observation and Geoinformation*(*submitted*).

Essa, W., Verbeiren, B., Van der Kwast, J., & Batelaan, O. (xxxx). Improved DisTrad for downscaling thermal MODIS imagery. *Remote Sensing of Environment*. x, xx-xx. (*to be submitted*).

Essa, W., Verbeiren, B., Van der Kwast, J., & Batelaan, O. (xxxx). Improved DisTrad for downscaling thermal MODIS imagery. *Remote Sensing of Environment*. x, xx-xx. (*to be submitted*).

Essa, W., (2003 - 2004), "Towards Palestinian National Geospatial Data Infrastructure" ITC, Enschede, Netherlands.

Essa, W., et al (2000), "Sustainability of the Faz and Ben-Seliman waste water treatment ponds", *University of Middle East, Morocco*

Essa, W., (1999), "Identifying Chloroform Stress in the Planets Using the Red Edge" Arava Institute for the Environmental Studies, Tel Aviv University, Israel

Essa, W., (1997), "Groundwater Contamination with Pesticide Residue in the Gaza Strip" Environment and Earth Science Dept., Gaza University, Palestine

Essa, W., (1997), "Methods of Solid Waste Disposal and Their Environmental Effects in the Gaza Strip" Environment and Earth Science Dept., Gaza University, Palestine

Essa, W., (1997), "Middle East's Regional Desertification and Natural Human Induced Environmental Factors", American University, Egypt

Essa, W., (1996), "Management of Solid Waste Disposal in Rafah City," Environment and Earth Science Dept., Gaza University, Palestine

CONFERENCES

Testing thermal sharpening techniques for land surface temperature retrieval support of urban and suburban area mapping

Authors: ESSA Wiesam, VERBEIREN Boud, BATELAAN OKKE

Reference: Abstract book 29th EARSeL, issue Mai Chania, Crete ? Greece, 15-18 June 2009, p. 11, eds. Manakos, I., Kalaitzidis, C., Petraki, D., Psyllakis, N.,

Evaluation of DisTrad downscaling of MODIS thermal products over Dublin

Authors: ESSA Wiesam, VERBEIREN Boud, Van der Kwast J., BATELAAN OKKE

Reference: Book of Abstracts of Joint SIG Workshop: Urban - 3D - Radar - Thermal Remote Sensing and Developing Countries, issue Earsel, Ghent, 22-24 September 2010.,

The applicability of DisTrad for downscaling MODIS land surface temperature products in urban areas using a multiple linear regressions.

Authors: ESSA Wiesam, VERBEIREN Boud, Van der Kwast J., BATELAAN OKKE

Reference: Proceedings of 31st EARSeL Symposium and 34th General Assembly 2011, Prague, Czech Republic.,

PERSONAL INFO

Date of Birth	20 February, 1975
Marital Status	Married 4 children
Skills	Leadership (Communication, coordination and organizing activities) Typing. (English Typing 90 words/min, Arabic Typing 90 words/min) Sports (Swimming, Diving, Driving license, and Soccer) Networking and Internet (Email & Internet professional use) GIS software (ILWISS, ArcView, ERDAS Imagine, GRASS, and some others) Statistics software (Excel, R project, and SPSS)

PROFESSIONAL EXPERIENCE

Lecturer at the Geography Department – Aqsa University (Feb 2004 - present).

REFERENCES

1-Professor. Okke Batelaan, PhD supervisor,

Vrije Universiteit Brussel, Department of Hydrology and Hydraulic Engineering, Pleinlaan 2, B-1050 Brussels - Belgium

Tel: +32-2-6293039 Fax: +32-2-6293022 E- mail batelaan@vub.ac.be

2-Dr. Ing. W.H. (Erik) de Man “Assistent Professor” PM supervisor

Social Studies Department, ITC, Hengelosestraat 99, 7500 AA Enschede Netherlands,

Phone: +31 (0)53 4874231, Fax: +31(0)53 4874575, E-mail deman@itc.nl

3--Dr. Mohammad R. Al-Agha, PA supervisor

Director, Science of Earth and Environment Dept (Islamic University of Gaza), Gaza City, Palestine

PO Box 108 Tel: 08-286-3554 Fax: 08-286-3552 E-mail: malagha@iugaza.edu.ps

Date May, 5, 2014

Signature: Wiesam Essa
