

CURRECULUM VITAE

Personal Details

Name: Ahmad Dahamsheh

Nationality: Jordanian

Marital status: Married

Address: Al-Hussein bin Talal University, Collage of Engineering, Department of Civil Engineering.

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Academic Qualifications

- 1- Ph.D. in Civil Engineering/Hydraulic and Water Resources Engineering (**Forecasting Monthly Precipitation for Arid Regions Using Conditional Artificial Neural Networks combined With Markov Chain**), Istanbul Technical University 2008.
- 2- M.Sc. in Meteorological Engineering (**Monitoring Meteorological Drought in Jordan**), Istanbul Technical University 2003.
- 3- B.Sc. in Meteorological Engineering (**The Relationship between Perceptible Water and Dew Point Temperature**), Istanbul Technical University 1988.
- 4- General Secondary Certificate Exam (GSCE), Scientific Stream, Ministry of Education 1981.

Training Courses

1. Oracle programming skills (SQL, PL/SQL, Forms builder and Reports builder), 120 hours field training in the Pioneers Training Center, Amman, Jordan.
2. English Communication Skills program/Level Two, 3/6/2009 – 23/6/2009 in the National Institute for Training (NIT). Amman, Jordan.
3. The Use of Satellite Data for Climate Application for Advanced User 20-23 April 2009, Langen, Germany.
4. Ecohydrology and Ecosystem Biodiversity, 3-4 December 2008, UNESCO AMMAN OFFICE, Jordan.
5. Numerical Weather Prediction from 1 march to 31 May 1997, Cairo, Egypt.
6. Forecasting Course at Jordan Meteorological Department Training Center from 1/4/1991 to 15/1/1992.
7. Observing Course at Jordan Meteorological Department Training Center from 1/1/1990 to 30/6/1990.

Teaching

Have the ability to teach the following courses:

- Engineering Hydrology.
- Engineering Hydraulics.
- Dam Engineering
- Water Resources Engineering.
- Sanitary Engineering.
- Fluid Mechanics.
- Engineering Statics.
- Structural Analysis.
- Thermodynamics.
- Strength of Materials.
- Probability and Statistics for engineers.
- Construction Materials.
- Building Construction.
- Dynamics.
- Project Management.
- Project II and I for graduate students.
- Supervised more than 70 graduate projects.
- External committee member and co-advisor for 15 master students and doctorate.

Work Experiences

Working in the area of Hydraulics, Hydrology, Meteorology, Water Resources Engineering, Sanitary Engineering and Hydrometeorological applications since 1988 as follows:

- 1- 2019 up to date dean of faculty of engineering/Aqaba university of technology.
- 2- 2018 up to date associate professor in the department of civil engineering/Al-Hussein bin Talal University.
- 3- 2016 to 2019 chairman of civil engineering department/Al-Hussein bin Talal University.
- 4- 2018 to 2019 vice dean of engineering faculty/Al-Hussein bin Talal University.
- 5- 2012 to 2018 assistance professor in the department of civil engineering/Al-Hussein bin Talal University.
- 6- 2010 to 2012 instructor in the department of civil engineering/Al-Hussein bin Talal University.
- 7- 2008 to 2010 director of Agrometeorology division/Jordan Meteorological Department.
- 8- 2003 to 2008 research assistant in Civil Engineering Faculty/Istanbul Technical University.
- 9- 1994-2003 Instructor in the Meteorological Department Training Center (Teaching Hydrology, Climatology, Atmospheric Thermodynamics, Agricultural Meteorology, General Meteorology, Earth Science, Air Pollution, Aviation Meteorology, Dynamical Meteorology, Synoptic Meteorology, Physical Meteorology, and many other branches of hydrology and meteorology).
- 10- 1997-2001 Instructor of Aviation Meteorology in King Hussein Air Base.

- 11- 1992–2001 Senior forecaster in the National Forecasting Center, Queen Alia International Airport and Muwaffak Alsalty Military Airport.
- 12- 1990 –1991 Weather observer in the National Forecasting Center Observatory.

Reviewer for

1. Journal of Agricultural Sciences and Technology (2008).
2. Atmospheric Research (2008).
3. Arabian Journal of Geosciences (2019)

Publications

- 1- Hafzullah Aksoy and **Ahmad Dahamsheh** (2018), Markov chain-incorporated and synthetic data-supported conditional artificial neural network models for forecasting monthly precipitation in arid regions, Journal of Hydrology, Volume 562, July 2018, pages 758-779 (**Q1**).
- 2- **A. Dahamsheh**, M. Wedyan, and Mahmoud B. Alhasanat (2018) Climate change impact assessment on rainwater in Jordan. International Journal of Advanced and Applied Sciences, 5(1) 2018, pages: 148-155.
- 3- **Ahmad Dahamsheh** and Mohammed Wedyan, (2017), Evaluation and assessment of performance of Al-Hussein bin Talal University (AHU) wastewater treatment plants, International Journal of Advanced and Applied Sciences, 4(1) 2017, pages: 84-89.
- 4- Mohammed Wedyan, **Ahmad Dahamsheh** and Esam Qnais, (2016), Investigate the Removal Efficiency of Nitrogen and Phosphate Compounds from Al Hussein bin Talal University Wastewater Treatment Plant (AHUP), Der Pharma Chemica, 2016, 8(12):25-29 (**Q3**).
- 5- Arabi N.S. AL Qadi, Mahmoud B.A. Alhasanat, **Ahmad AL Dahamsheh** and Sleiman AL Zaidneen, (2016), Using of Box-Benken Method to Predict the Compressive Strength of Self-Compacting Concrete Containing Wadi Musa Bentonite, Jordan, American Journal of Engineering and Applied Sciences 2016, 9(2): 406.411 (**Q3**).
- 6- Mahmoud B. Alhasanat, Arabi N. Al Qadi, Omar A. Al Khashman and **Ahmad Dahamsheh**, (2015), Scanning Electron Microscopic Evaluation of Self-Compacting Concrete Spalling at Elevated Temperatures, American Journal of Engineering and Applied Sciences 2016, 9(1):119.127 (**Q3**).
- 7- **A. Dahamsheh** and H Aksoy, (2013) Markov Chain-Incorporated Artificial Neural Network Models for Forecasting Monthly Precipitation in Arid Regions, Arab J Sci Eng (2014) 39:2513 (**Q1**).
- 8- **A. Dahamsheh** and H Aksoy, (2011) Forecasting monthly precipitation for arid regions using conditional feed-forward backpropagation artificial neural network combined with Markov chain (in Turkish), itü dergisi/d 2009, 8(6):37-48.
- 9- **A. Dahamsheh** and H Aksoy, (2009) Artificial neural network models for forecasting intermittent monthly precipitation in arid regions, Meteorological Applications, 16: 325-337 (**Q2**).
- 10- H. Aksoy and **A. Dahamsheh**, (2009) Artificial neural network models for forecasting monthly precipitation in Jordan, Stoch Environ Res Risk Assess, 23: 917-931 (**Q1**).

- 11-A. Dahamsheh** and H. Aksoy, (2007) Structural characteristics of annual precipitation data in Jordan, Theoretical and Applied Climatology, 88(3-4), 201-212 (Q2).

Contributions to International Scientific Meetings

- 1- O. Al-Khashman and **A. Dahamsheh**, Suspended sediments transport in hydrological northern Wadi Araba basin and assessment of water quality. International Conference Sediment Transport Modeling in Hydrological Watersheds and Rivers, 14-16 November 2012, Istanbul-Turkey.
- 2- K. Alzboon and **Dahamsheh A**, Climate change in agriculture areas of Jordan, Global Conference on Global Warming 2009 (GCGW), July 5-9, Istanbul, Turkey.
- 3- V. Alexandrov, S. Dakova, H. Aksoy and **A. Dahamsheh**, Analysis of climate change in southeastern Bulgaria and northwestern Turkey, BALWOIS Conference, 25-29 May 2004, Ohrid, Macedonia.
- 4- H. Aksoy, N. Unal, M. Itibar, **A. Dahamsheh**, L. Kaynar, Streamflow characteristics of European part of Turkey, BALWOIS Conference, 25-29 May 2004, Ohrid, Macedonia.

Contributions to Scientific Meetings with Jordan

- 1- Seminar for farmers about the correlation between climate change and crop for Tafileh Region (Tafileh Technical University).
- 2- Seminar for farmers about the correlation between climate change and crop for Irbid Region (Jordan University of science and Technology).
- 3- Seminar for farmers about the correlation between climate change and crop for Amman region (Jordan University).
- 4- Seminar for farmers about the correlation between climate change and crop for Salt region (Albalqa applied University).
- 5- Seminar for Arabs farmer about correlation between climate change and crop for the Arab World (Le Meridien Hotel, Amman).

Memberships

- Jordan Engineering Association (Civil Engineering).

Languages

- 1- Arabic as a mother language.
- 2- Excellent English
- 3- Excellent Turkish

Others

- 1- I have full knowledge and distinguished skills in computer science and information technology.
- 2- Proficient in using Windows, and good in using Linux operation systems.
- 3- Proficient in using Soft Computational methods (Artificial Neural Networks and Fuzzy logic).
- 4- Proficient in Statistical and Stochastic models.

- 5- Proficient in modeling and missing data generation.
- 6- FORTRAN and MATLAB programming language.
- 7- Skillful in statistical software's such as: SPSS, Statistica, R, JMP, Minitab, Instat Epanet, and Genstat.
- 8- Proficient in scientific software packages such as: Matlab, Surfer, GIS, Oracle, Civil 3D and other modern computer programs.