Curriculum Vitae

Firas Hazim Jasim

Specialism: **Civil Engineering - Geotechnical Engineering**

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Academic Qualifications

SEQ.	QULIFICATION	FIELD	AWARDING BODY	COUNTRY	DATE
1	BSc	Civil Engineering	Tikrit University	Iraq	2001
2	MSc	Geotechnical Eng.	Tikrit University	Iraq	2004
3	Ph.D	Geotechnical Eng.	Mississippi State University	US	2019

Research Interests

- **Geotechnical engineering.**
- **Earth structures.**
- **Resilience of geotechnical infrastructure under a changing climate**
- **Analytical and numerical methods in geomechanics**
- **Multi-physics processes (thermo-hydro-mechanical) in variably saturated soils and fracture rocks**
- **Energy Geomechanics**
- **Embankment dams and levees**
- **Reinforced slopes and MSE walls**
- **Deformation and stress analysis of earth and rockfill dams.**
- **Three-Dimensional Hydro-Mechanical Simulation of Levees under Extreme Events.**
- **Fragility Curves of Earthen Levees under Extreme Events.**
- **3-D Fragility Curve for levees under multi-hazard scenario**

Practical experience

- **Alkeer construction bureau 2005 - 2012 (designer and site engineer)**
- **Tikrit University 2006- until now (professor)**
- **Full scale company 2012 – 2014 (project manager).**
- **Engineering consulting bureau – Tikrit university 2010 – until now (Consultant).**
- **Al-Nasser Residential Complex project 2022 – 2024.**

Publications

- **Jasim, F. H., Vahedifard, F., Ragno, E., AghaKouchak, A., & Ellithy, G. (2017). Effects of climate change on fragility curves of earthen levees subjected to extreme precipitations. Geo-Risk 2017: Geotechnical Risk from Theory to Practice, Geotechnical Special Publication No. 285.**
- **Jasim, F. H., & Vahedifard, F. (2017). Fragility curves of earthen levees under extreme precipitation. Geotechnical Frontiers.**
- **Firas H. Jasim; Farshid Vahedifard; Aneseh Alborzi; Amir AghaKouchak. (2020). Fragility Function of Levees Subjected to Flooding Under Climate Change Effect Considering Multiple Failure Modes. Geo-Congress 2020.**
- **Firas H. Jasim; Farshid Vahedifard; Aneseh Alborzi; Amir AghaKouchak. (2019). "Levee Fragility Behavior and Failure Probability under Projected Flood Loadings in a Warming Climate: considering multi modes of failure". Journal of Geotechnical and Environmental Engineering. (submitted to American Society of Civil Engineers).**
- **Firas H. Jasim; Farshid Vahedifard; Aneseh Alborzi; Hamed Moftakhari; Amir AghaKouchak. (2019). "A Methodology for Simulating Impacts of Compound Coastal Flooding on Earthen Levees in a Changing Climate". Water Resources Research. (submitted to Water Resources Research).**

Computer skills

- **Analytics.**
- **Social Media.**
- **Graphic Design.**
- **Microsoft Office.**
- **Spreadsheets.**
- **Email Communication.**

Employment History

- **From 206-Now: Assistant Lecturer at Tikrit University – College of Eng. – Dept. of Civil Eng.**

Teaching

- **Mathematics.**
- **Drawing Engineering.**
- **Numerical analysis.**
- **Soil lab.**
- **Computer lab.**

Languages

- **Arabic.**
- **English.**

Memberships

- **Member of the Iraqi Engineers Union.**
- **Member of American Society of Civil Engineers (ASCE).**