



## Curriculum Vita of Farhad Daliri

### Hydrologist

E-Mail: farhad.daliri@gmail.com

Cellphone +98 912 0851354,

Physical condition: good, Tehran, Iran, Dan 1 Karate Kick Boxing

Work Place: Manager of Civil and Env. Dep. Absam Co.

ORCID: 0009-0004-8568-169X

Google Scholar Farhad Daliri

Website: [www.absam.ir](http://www.absam.ir)

Last Update: 2024

**Specialty:** *Watershed Eng. – Hydrology Univ. of Tehran, Iran, 2001.*

### Research Interests

- Flood Control & Hydraulics
- Groundwater Modeling
- Hydro-Climate & Planning
- Data & Uncertainty

### Academic qualification

**BSc. Eng. of Watershed Management- with emphasis on Soil and Water Conservation Eng. Univ. of Tehran, 2001.**

**Project: Hydrology & Water Resources:** Flood estimation based on innovative Daliri CN method with SCS and data analysis, salt tracing & ROD ruler in ditch, Taleghan, Alborz”.

**MSc. Eng. of Watershed Management- Hydrology. Univ. Science and Research Branch of Tehran, 2007.**

**Thesis: Planning** Alavian Dam rule curve by Lingo programming.

**(Main course:** River Engineering/Water resource management /Soil erosion & Sediment/Flood Control/Snow & Avalanche/Water Quality/Water-Soil-Plant relations/Systems Analysis

### Teaching Background

- ✓ Part time Instructor Shahid Abaspour Univ., 2010-To be continue:
- ✓ Hydrology & Hydraulics, Geohydrology.

#### Member of Societies

- Iran Science & Water Resources Engineering, 2008, NO. 87-01-106
- Iran Science & Watershed Management Engineering, 2008, NO. 1370.

### Text Book ([www.absam.ir](http://www.absam.ir))

1. Farhad. Daliri. 2024“**Guidelines: damming and design of River hydraulic structures for flood control**’ 3th edit, 64p. Absam press.
2. Farhad Daliri, Hassan Seyed Seraji. 2019, “**Water & Environment Modeling – Flood Control, Water Supply, Groundwater Management**-Urban and Rural, Emphasize: Numerical Analysis, 722 p. (2014, 1th edit). *Absam press*
3. Farhad Daliri, 2020. **Uncertainties in Flood Forecasting Systems modeling**” Rev 2., 248p. Absam press.
4. Farhad Daliri, Hassan Seyed Seraji. 2023, **Dynamic of weather and water**, 1th edit, 150p. Absam press.
5. Farhad Daliri, Hassan Seyed Seraji. 2022, **Dams sediment flushing**, 1th edit, 130p. Absam press.
6. Farhad Daliri, Hassan Seyed Seraji. 2022, **Principle of urban hydrology**, 1th edit, 93p. Absam press.
7. Farhad Daliri, Hassan S. Seraji. 2021, **Aquifer system compaction and land subsidence**, 1th edit, 103p. *Absam press*.



Journal

1. **Daliri, F.**, Singh, V.P., Wasson, R. (2024-*Under Progress-Hydrological Processes Journal*). Sediment yield estimation in ungauged basins with improved rating curves.
2. **Daliri, F.**, Singh, V.P. (2024-*Under Progress-ASCE, Journal of Hydrologic Engineering*). Spectral risk analysis of Probable Maximum Precipitation.
3. **Daliri, F.**, Seraji, H.S., Kholghi, M., & Dehghanipour, A.H. (2013), "Prioritizing sub-watersheds flooding intensity for structural damaging flood control and managing". Desert Journal, 18 (2): 153-162. (<http://jdesert.ut.ac.ir>).
4. **Daliri, F.**, Seraji, H.S., Kholghi, M., & Ahmadi, H. (2011), "Soil hydrologic group detection based on geomorphology facieses and slope," (Case Study: West of Tehran). Desert Journal, Univ. of Tehran. 16 (1): 69-75. (<http://jdesert.ut.ac.ir>). , From B.S. Project.
5. **Daliri, F.**, Kholghi, M. (2010), "Importance of storm type and initial loss value for flood discharge estimation," IRAN-Water Resources Research, Technical report. 5(3): 19-20. SID.
6. **Daliri, F.**, Seraji, H.S., and Kholghi, M. (2009), "Watershed system planning and management using optimization model," (Case study: Gharmabdasht Watershed). Journal of Range and Watershed Management, Univ. of Tehran, 62(2): pp. 247-257.
7. **Daliri, F.**, kholghi, M. (2009), "Modified IUDDN as a tool for annual stream flow stochastic simulation," (Case study: East of Iran), Iranian Journal of Watershed Management Science & Engineering., 3(6): 1-8. <http://jwmsei.ir/article-1-96-en.html>.

Conference-Oral

1. **Daliri, F.**, V.P Singh, A. Khalili. (2024). Introducing of daliri method (2023) for estimation of probable maximum precipitation (PMP). 9th International conf. on civil, structural and seismic engineering, Tehran.
2. **Daliri, F.**, Seraji, H.S. (2023), "Daliri equation (2013) to suspended load estimation and improving rating curve based on flood sediment effect", The 22<sup>nd</sup> Iranian conf. on Hydraulics, (8-9 Nov.2023). Maraghe Univ.
3. **Daliri, F.**, kholghi, M., and Seraji, H.S. (2011), "Long-term generation rivers annual flow in design normal volume of dam reservoirs," Proceedings of 4th Conference of Iran Water Resources Management, University of Amirkabir (Tehran Polytechnic).
4. **Daliri, F.**, Seraji, H.S., Kholghi, M., and Ahmadi, H. (2011), "Soil hydrologic group detection for flood discharge estimation," (Case Study, Taleghan River Watershed, Iran), Proceedings of 4th Conference of Iran Water Resources Management, University of Amirkabir (Tehran Polytechnic).
5. **Daliri, F.**, Kholghi, M., and Seraji, H.S. (2009), "Importance of storm type and initial loss in flood modelling," Proceeding of the 1st International Confer. of Water Crisis, Univ. of Exeter and Zabol, Iran.
6. **Daliri, F.**, Salajeghe, A., Kholghi, M., & Seraji, H.S. (2009), "Future and principle of watershed management in urban area and river basin of dams using hydrosystem engineering," Proceeding of the 5th National Confer. of Natural Hazards Management and watershed Management, University of Gorgan, Iran.
7. **Daliri, F.**, Kholghi, M., and Seraji, H.S. (2008), "Introducing and evaluation daliri standardization method (DSM) for prioritizing structural damaging flood control and managing," Proceeding of the 3th Conference of Iran Water Resources Management, University of Tabriz Civil Eng, 10016.

Academic research

- 1) Hashemian, S.J., Fatehrad, M., Tajrishi, M., **Daliri, F.**, & some of elites. 2012, "Draft: "National water technology development document" Water and Energy Research Institute, Sharif Univ.



- 2) **Daliri, F.**, (2000), "Assessment of erosion & sediment models in Iran. Prof. S. Feiznia, Faculty of Univ. of Tehran & Dr. J. Ghoddosi, Faculty of Tehran watershed management research Institute.

## Methodology preparation

- 1) River training of Lorestan Rodbar Dam and Powerhouse Project, IWPC, Sakoo Co, 2015.
- 2) Sediment and flood control of Karon 4 Dam, IWPC, Mahab Ghodss Co, 2009.
- 3) Watershed management and sediment control of Dez Dam, Ahvaz Regional Water Co, Mahab Ghodss Co, 2008.

## Lecture

- 1) Considering of groundwater fluctuations in urban regions, Khorasan Razavi urban engineering Org, IRAN 2013.
- 2) Systematic watershed management in IWRM & urban environment, Khorasan Razavi, watershed management Org, 2013.

## Technical Reviewer

- 1) Groundwater studies, Effect of exploitation of mine on aquifer pollution, ALIABAB-YAZD, Water & Energy Institute of Sharif Univ. of Technology, Dr. Torkian, Iran, 2011.
- 2) Methodology of Flood Management in IRAN Dam Reservoirs, Sharif Univ. of Technology, Dr Abrisham chi, Shahid Beheshti Univ. Dr.Seraji. 2011.
- 3) Technical report of Hydrology in many of Consulting Eng Co from 2010.

## Work Experience-Technical Reports

### Project Management, Iran, Absam EPC Co.

Year: 2021-2023

Location: Zabol and Sistan, Province / Iran

Client: UNDP and Environmental Organization of Iran

Main project features: Flood control

Positions held:

- Project manager / Hydraulic and hydrology expert

Phase: 0

Activities performed:

Hydraulic and hydrology and society studies

### Project Management, Iran, Absam EPC Co.

Year: 2021-2023

Location: Ahvaz, Province- Kot Abdola / Iran

Client: Urban management Org.



Water Instruments

Building & Road

GIS Surveying·IT

Water & Environment

Main project features: Flood control

Positions held:

- Project manager / hydrology expert

Phase: 1 and 2

Activities performed:

Water supply for urban green plant/ irrigation design

Project Management, Iran, Absam EPC Co.

Year: 2013-to be continue

Location: Charmahal, Province / Iran

Client: Water Ministry

Main project features: S, T coefficient estimation of aquifers

Positions held:

- Advisor

Phase: Design

Activities performed:

Hydraulic and hydrology

Project Management, Iran, Absam EPC Co.

Year: 2013-2018

Location: Alborz, Province / Iran

Client: Water Ministry

Main project features: Land subsidence zoning

Positions held:

- Advisor

Phase: Design

Activities performed:

Radar analysis

Project Management, Iran, Absam EPC Co.

Year: 2013-2018

Location: Alborz, and Sistan, Zanjan Province / Iran

Client: Water Ministry

Main project features: Flood zoning

Positions held:

- Advisor



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Water Instruments

Building & Road

GIS Surveying·IT

Water & Environment

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Phase: Design

Activities performed:

Hydraulic and hydrology

Rodbar Lorestan Dam and Powerhouse Project, SAKOO Co.

Year: 2014-2015 (Impounding)

Location: Lorestan Province / Iran

Client: Iran Water & Power Company

Main project features: Supervisor: SAKOO, Chinese CGGC, SEPA SAD & POYERY Co.

Positions held:

- Supervisor and hydrologist expert

Phase: Construction

Activities performed:

Field controls, Groundwater between Dam & Powerhouse, flood hydraulic & hydrology, reservoir and watershed sediment, flow forecasting assessment, simulation of reservoir operation for impoundment

River engineering, Sharafe river reach Project, Yekom Co.

Year: 2005-2006

Location: Tabriz Province / Iran

Client: Tabriz regional water Company

Main project features: Supervisor of river structures construction to protect Pump stations

- Design Partner and hydrologist expert

Phase: Design & Construction

Activities performed:

Field controls, meteorology, hydrology, Physiography and cooperation in design of Epi and hard points.

Project deepen of wells, Absam EPC Co.

Year: 2015-2016

Location: Eshtahard & Hashtgerd Plain / Iran

Client: Alborz regional water Company

Main project features: Deepen of wells

Positions held:

- Technical consideration

Phase: Study & design

Activities performed: consider of base and main reports

KAVOSHPEY MASHAD Co.



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Water Instruments	Building & Road	GIS Surveying·IT	Water & Environment
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Year: 2013-2014

Location: Khorasan Province (Sangan Urban & Razavi Province) / Iran

Client: Khorasan regional water Company & Municipality Authority

Main project features: river engineering, flood forecasting, urban runoff

Positions held:

- Supervisor and River Section manager

Phase: Design & Study

Activities performed:

Methodology of flood forecasting Firozeh shah Job river, flood zoning, urban runoff collection, review of KALE KHOSHK river water transmission.

Updating of Water Resource Master Plan, Caspian Sea and Urumiya Basins, MAHAB GHODSS Co.

Year: 2009-2010

Location: 13 Provinces of Iran

Client: Ministry of Energy

Main project features: Water planning for the existing and development conditions, for Qezelozan – Sefidrood, with 8 provinces and 64471 km<sup>2</sup> sub-basins.

Positions held:

- Flood, Drought, Erosion expert, Member of technical committee

Phase: Master Plan

Activities performed:

Mapping of flood and drought damaging, Sediment and erosion team leader, Statistic Analysis

Watershed Management, MAHAB GHODSS Co.

Year: 2010-2010

Location: Tehran Province (Shahrestanak and Arad) of Iran

Client: Organization of Forests, Rang and Watershed Management, Iran

Main project features: Elementary phase, Flood control and phiziography, Water harvesting

Positions held:

- Hydrologist, Member of technical committee

Phase: Elementary

Activities performed:

Data collection and analysis of characteristics, Statistic Analysis, design and planning

ILAM Dam Pollution, MAHAB GHODSS Co.

Year: 2008-2008





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Water Instruments	Building & Road	GIS Surveying·IT	Water & Environment
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Location: Ilam Province of Iran

Client: Ilam regional water company, Iran

Main project features: Why the urban water supply system is failed after a storm?

Positions held:

- Hydrologist, Member of technical committee

Phase: Remediation

Activities performed:

Data collection and analysis of storm & dirty flood characteristics, Statistic Analysis, design and planning

Watershed Management of Kavar Dam, MAHAB GHODSS Co.

Year: 2008-2009

Location: Fars Province of Iran

Client: Organization of Forests, Rang and Watershed Management, Iran

Main project features: Elementary phase, Flood and erosion control

Positions held:

- Flood, surfacewater, GIS & Phiziography, and meteorology expert, Member of technical committee

Phase: Elementary

Activities performed:

Data collection and analysis of characteristics, Statistic Analysis, design and planning

Dam Reservoir Nutrition Assessment in GAVOSHAN and BOKAN Dams-ASARAB CO.

Year: 2007-2008

Location: Kordistan Province of Iran

Client: Kurdistan regional fishery authority, Iran

Main project features: Fish inbreed Studies

Positions held:

- Hydrologist (Surface water, meteorology)

Phase: Assessment

Activities performed:

Data collection and analysis of chemical & water quality

Artificial Recharge and Flood Spreading, ARMAN GOSTAR ATIYE Co.

Year: 2008-2008

Location: Sistan Balochestan Province of Iran

Client: Sistan regional watershed management, Iran

Main project features: Flood management Studies and Design





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Water Instruments	Building & Road	GIS Surveying·IT	Water & Environment
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Positions held:

- Hydrologist (flood)

Phase: Detailed Design

Activities performed:

Data collection and analysis of flood, flood modeling

Watershed Management of Shirin Dareh Dam, VAZNA Co.

Year: 2006-2007

Location: Semnan Province, Khorasan Province of Iran

Client: Organization of Forests, Rang and Watershed Management, Iran

Main project features: Elementary phase, Urban watershed management, Sediment of Shirin dareh dam

Positions held:

- Project manager and expert

Phase: Elementary

Activities performed:

Project control

EIA of OIL Plant in AZADEGAN and YADAVARAN Plain –International Project-FANAVARAN AB SAZEH CO and SHEL Co.

Year: 2005-2006

Location: Khozestan Province of Iran

Client: National Iranian OIL Company, Iran

Main project features: EIA

Positions held:

- Hydrologist (groundwater and surfacewater, flood, meteorology)

Phase: Assessment

Activities performed:

Data collection and analysis of water characteristics, Statistic Analysis, design and planning

Watershed Management, NASHTAK Co.

Year: 2003-2005

Location: Khorasan (Mashad) Province of Iran

Client: Organization of Forests, Rang and Watershed Management, Iran

Main project features: Elementary phase, Flood and sediment control

Positions held:

- Hydrologist (groundwater, flood control, surface water, water quality and sediment)

Phase: Elementary







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Water Instruments	Building & Road	GIS Surveying·IT	Water & Environment
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Activities performed:

Study and Data collection and analysis of water characteristics, Statistic Analysis, planning, flood modeling

Regional Management of Environment –GANDO and FASA -VARZBOOM CO.

Year: 2003-2005

Location: Sistan Province, Fars Province of Iran

Client: Department of the Environment of Iran

Main project features: Elementary phase, Environmental Management & Planning

Positions held:

- Hydrologist (surface water, Sediment, GIS, RS in Limnology and landuse)

Phase: Elementary

Activities performed:

RS & GIS Analysis, Statistic Analysis, water surface analysis and water quality, Sediment study and springs,

Agriculture Developing-VARZBOOM CO.

Year: 2001-2003

Location: West of Iran, AB Vanak

Client: Department of the Agriculture of Iran

Main project features: Elementary phase of agriculture developing

Positions held:

- Hydrologist

Phase: Elementary

Activities performed:

Water surface analysis and water quality, Statistic Analysis and snow hydrology

## Special Trainings

➤ 2003 (35 hours, in higher level than Master's Degree)

Mathematical Modelling of Groundwater Contamination (theoretical and practical)

University of Tehran

➤ 2008 (8 hours, 7th hydraulic seminar ir)

Flood Forecasting (Course)

Univ. of Power & Technology and water research institute (Ministry of Energy), Tehran, Iran

➤ 2008 (8 hours)

Challenges with Climate Change, Drought, Flood and Dams (Course)

IRCOLD, Dams committee and MGCE Co, Tehran, Iran





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Water Instruments	Building & Road	GIS Surveying·IT	Water & Environment
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➤ 2008 (24 hours, Prof Sidrofski international adviser from Arizona Univ)

MCDM for Water and Environmental Management (Course)

Civil Univ. of Tabriz, Iran

➤ 2008 (4 hours)

Financing Water Resources Development Project (Course)

IRCOLD, and MGCE Co.

➤ 2013 (4 hours)

Flood Fighting Action Plan (EAP Course)

Ministry of Energy and Iran Crisis Management Org.

### Software

HEC-RAS, HEC-HMS, GMS, WEAP, ARC-GIS-RS, Hyfran, Easy fit, EPA-SWMM, Lingo, SPSS, MATLAB ....

### General interest

✓ 1 Dan karate kick boxing.

### English skills

*Writing (Good)*

*Reading (Good)*

*Listening (Fair)*

*Speaking (Fair)*

