

Ali Nasirian

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OBJECTIVE Assistant Professor of Civil department.

WORK EXPERIENCE **Water Recourses, Hydraulic, WDS** Since:2013

Ph.D. Thesis Title:

- Evaluation of hydraulic model analysis to detect leakage in water distribution network, 2013, Ferdowsi university of Mashhad.

M.Sc. Thesis Title:

- Evaluation the effect of water turbidity convey from Baladeh qanat to farmland, 2003.
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EDUCATION 1998 - 2003
Bachelor Degree of Civil Engineering, Ferdowsi university of Mashhad.

2003 - 2005
MA Civil Engineering- hydraulic Structures, Ferdowsi university of Mashhad.

2006-2013
Ph.D. Civil Engineering-Hydraulic, Ferdowsi university of Mashhad.

LECTURER Advance Hydrology
Hydrology
Design of Soil Dams
Soil Mechanics
Dam Engineering
Design of Small Dams
Water and Wastewater Engineering
Economic engineering
Soil mechanic lab.
Hydraulic lab

ARTICLES

1. **Determine the optimal position of pressure reducing valves in the distribution network (Case study: Birjand network)**, 2018, Journal of irrigation and water engineering.
2. **Investigation on the effect of runoff curve number, depression storage and time concentration parameters to prioritize the flood control operation in watershed basins.** 2016, Iranian Journal of irrigation and drainage, 10(5).
3. **Investigation the effects of muddy water in decreasing seepage in the transition channels (Case study: Ferdows, South Khorasan province,** 2018, Iranian Journal of Soil and Water Research, 48(5).
4. **Determination of Value and Location of the Leakage in Water Distribution Networks Using Calibration (Case Study: The Water Distribution Network of Golbahar, Khorasan Razavi)**, 2019, Journal of Water and Wastewater.
5. **Performance Evaluation of Optimization Models for Calibration and Leakage Detection of Water Distribution Network Using Laboratorial Model,** 2014, Journal of Water and Wastewater, 25(90).
6. **Estimation of Granular Grading and Concentration of Sediments on the Bed and at the Outlet of a Sediment Tank by the Aid of an Eulerian-Lagrangian Model,** 2012, journal of civil and environmental engineering, 42(68).
7. **Leakage detection in water distribution network based on a new heuristic genetic algorithm model,** 2013, journal of Water Resource and Protection, 5(3).
8. **Calibration of a WDN using Optimization Techniques in Localization of Pressure Measurements by Applying Artificial Nodal Leaks,** 2015, journal of Civil Engineering, 1.
9. **Sediment Particle Motion Analysis and Estimation of Trapping Efficiency in Pollution Basin by the Aid of an Eulerian-Lagrangian Model,** 2012, journal of Hydraulics, 6(3).
10. **Step-by-step Leakage Detection in Water Distribution Systems Based on Nodal Pressure Calibration using Genetic Algorithm,** 2013, journal of Iran- Water Resources Research, 25(90).
11. **Field and Numerical Investigation of the Influence of Water Pollution on Reducing Leakage from Earth's Channels,** 2018, journal of Iranian Irrigation and Drainage.
12. **Optimization of quality sensors placement in**

water distribution networks to detect the contamination entrance in several nodes, sending, journal of the Iranian Society of Irrigation & Water Engineering.

13. **Investigating the effects of garnet sealing on the dry area by using water infiltration method**, 2015, The First National Conference of Do Aqueduct and Canal.
14. **Drought stature in South Khorasan province using standard precipitation index (SPI)**, 2015, 1st Iranian National Congress of Irrigation & Drainage.
15. **Examining Nanotechnology Applications in Monitoring and Water Treatment**, 2019, National Symposium on Ferdows Balade Qanat.
16. **Investigation of garnet sealing in the dry area using the water infiltration mud method**, 2015, Water Harvesting and Watershed Management Congress.
17. **Maximum Flood discharge Simulation Using WMS Model (Case Study: Haji Abad Basin)**, 2016, 4th International Congress on CIVIL ENGINEERING, ARCHITECTURE & URBAN DEVELOPMENT.
18. **Determination of optimal position of compressor valves in water distribution network (case study: Birjand network)**, 2017, 5th International Congress on CIVIL ENGINEERING, ARCHITECTURE & URBAN DEVELOPMENT.
19. **Designing an Underwater Pressure Irrigation Network for Maleki Lands (Case Study: Golfshan Wells in Darmian County, South Khorasan Province)**, 2015, 1st Iranian National Congress of Irrigation & Drainage.
20. **Estimation of spatial distribution of unplanned water in urban water distribution network based on nodal pressure calibration**, 2015, National Conference on Water Crisis and it's Management in Arid Zone of Iran.
21. **Operation management from the groundwater in plain Sarayan**, 2017, 4th national conference on applied research in Civil engineering, architecture and urban management.
22. **Method structural and non-structural flood control in urban**, 2017, 4th national conference on applied research in Civil engineering, architecture and urban management.
23. **The climate change and its impact on water resources**, 2017, 4th national conference on applied

research in Civil engineering, architecture and urban management.

24. **The effect of climate change on groundwater resources in Iran**, 2017, 4th national conference on applied research in Civil engineering, architecture and urban management.
25. **Detection of deliberate pollution and its hazards in the water distribution network (review)**, 2017, IRAN WATER & Wastewater Science Engineering Congress.
26. **The effect of ant colonies indices for leakage in a water distribution network**, 2016, First International Conference on Water, Environment and Sustainable Development.
27. **Analytical Evaluation of Leakage in Soil Channels Using the Boor Method**, 2015, 4th Hydraulic Conference of Iran.
28. **Assessment of effective factors in reducing runoff in the catchment area of Nahrein Tabas dam**, 2016, National Conference on Water Crisis and it's Management in Arid Zone of Iran.
29. **Investigation of Non-Dehumidifying Degradation Factors of Nahrein Tabas Dam and Effects of Drought on it**, 2016, National Conference on Water Crisis and it's Management in Arid Zone of Iran.
30. **Introduction and Evaluation of Indicators for Determination of Leakage Precision in Water Distribution Networks (Case Study: Birjand Network)**, 2016, First International Conference on Water, Environment and Sustainable Development.
31. **Analytical assessment of unplanned water in a water distribution network (Case study: Golbahar city, Khorasan Razavi province)**, 2016, National Conference on Water Crisis and it's Management in Arid Zone of Iran.
32. **Leak detection using Nodule Pressure Calibration in Water Distribution Networks (Case Study: Birjand Water Distribution Network)**, 2018, 1st National Conference on Modeling and New Technologies in Water Management.
33. **Identification of the leak detection method based on the evaluation of leakage detection methods by analytical-descriptive method**, 2018, 1st National Conference on Modeling and New Technologies in Water Management.
34. **Optimization of sensor location to detect water**

pollution in urban water distribution systems, 2018, 1st National Conference on Modeling and New Technologies in Water Management.

35. **Identification of the amount and position of water without income and its components in water distribution networks (Case study: Golbahar Water Distribution Network, Khorasan Razavi)**, 2018, 1st National Conference on Modeling and New Technologies in Water Management.
36. **The number and position of the optimal wet-bladder in the water distribution network in Water GEMS software**, 2017, 5th International Congress on CIVIL ENGINEERING, ARCHITECTURE & URBAN DEVELOPMENT.
37. **Numerical modelling of the bedload sediment transport dynamics based on splitting wave-propagation algorithm**, 2015, 10th International Congress on Civil Engineering.
38. **The Effect of Comprehensive Management on the Rejection or justification of Water Resources Development Projects, Case Study: Rivers River in East of Khorasan Razavi Province**, 2007, 2nd Water Resources Management.
39. **Investigating the Effects of Flood Infection Flooding on Ferdows Agricultural Gardens and Lands**, 2007, 2nd Iranian National Conference on Construction Experiences of Irrigation and Drainage Networks.
40. **Bourne dam zone, Optimal utilization pattern of water resources**, 2007, 4th National conference on Watershed Management Sciences and Engineering of IRAN.
41. **Comparison of simple and differential waveform design parameters**, 2009, 8th Iranian Hydraulic Conference.
42. **Step -by-Step leakage detection in water distribution systems based on nodal pressure calibration using genetic algorithm**, 2010, 9th Iranian Hydraulic Conference.
43. **Laboratory study of roughness coefficient in low diameter polymeric pipes**, 2011, 10th Iranian Hydraulic Conference.
44. **Perspective in Irrigation Projects (Case Study: Trenching Irrigation gravity Project of Tabarak Dam with Type View)**, 2011, 3rd Irrigation and Drainage Network Management National Conference.

45. **Review of irrigation and drainage network studies with value engineering vision (Case study: lands of Golbahar 2 co-operative company in Khorasan Razavi province)**, 2011, 3rd Irrigation and Drainage Network Management National Conference.

46. Research Project

47. Research Project "**Investigating the Effects of Flood Infection Flooding on Ferdows Agricultural Gardens and Lands**", Employer: Khorasan Razavi Regional Water Company.

48. Research Project "**Investigation of Hydraulic Methods for Determination of Leakage in Urban Water Distribution Networks**", Employer of Razavi Khorasan Province Water and Wastewater Company.

49. Research Project "**Investigating the Motion of Sediment Particles in Pollution Basin by the Eulerian-Lagrangian Method**", As a research project No. 2 at Ferdowsi University of Mashhad.