PERSONAL INFORMATION

First Name: Mohammad
Last Name: Valipour
Nationality: Iranian
Date of Birth: August 16, 1984
Marital Status: Bachelor
Address: Unit 13, No. 52, Khanali Avenue, Kord Avenue, Resalat Highway, Tehran, Iran
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EDUCATION

M.Sc.   Agricultural Engineering-Irrigation and Drainage, 2006-2008
Department of Irrigation and Drainage Engineering, College of Abureyhan, University of Tehran (ranked 259th in SIR, 301-400 in ARWU, 645th in Webometrics), Pakdasht, Tehran, Iran
Thesis: A comparative evaluation between ARIMA and ANN models in inflow forecasting to Dez dam

B.Sc.   Agricultural Engineering-Irrigation, 2002-2006
Department of Irrigation, Razi University, Kermanshah, Iran
Project: Quantitative analysis of land topography using Lagrange equations and computer programming

COURSES

1. How To Publish a Scientific Journal Article, the Author Workshop conducted by Springer and Edanz, 2011
2. Participate in workshops and learning courses, Iranian National Committee On Irrigation & Drainage (IRNCID), 2007
3. Participation in English language learning course at the advanced level, Jahad Daneshgahi, 2006

COMPUTER SKILLS

General Softwares   Microsoft Office (proficient), Visual Basic (proficient), MATLAB (proficient), CurveExpert (proficient), Datafit (proficient), Past (proficient), Linear interpolation (proficient), MINITAB (proficient), Expert Choice (proficient), NeuroSolutions (proficient), SPSS (familiar)

Specialized Softwares   SIRMOD (proficient), WinSRFR (proficient), HydroCalc (proficient), PipeLoss (proficient), EnDrainWin (proficient), WellDrain (proficient), PivNoz (proficient), DIP (proficient), AGWAT (proficient), NETWAT (proficient), OPTIWAT (proficient), DrainSpace (proficient), L Calc (proficient), DAILYET (proficient), ClimeCalc (proficient), Irrigation System Design Calculator (proficient), Drip (proficient), Ndept (proficient), Pumpiran (proficient), Infilt (proficient), Trickle Calculator (proficient), Visual Level (proficient), Hyfa (proficient), CROPWAT (proficient), AutoCAD (familiar), Land Development Desktop (familiar), HYDRUS (familiar), Epanet (familiar), FLOWPRO (familiar), HEC-HMS (familiar), HEC-RAS (familiar), HydroClv (familiar), SALTMED (familiar), Surfer (familiar), Drainmod (familiar), SWAP (familiar), SMADA (familiar), ArcGIS (familiar), WinSRM (familiar), WinTR (familiar), Chemflo (familiar), Sobec (familiar), Civil 3D (familiar), Rainbow (familiar), Watercad (familiar), GS+ (familiar), WetUp (familiar), Greenroof (familiar), SPAW (familiar), HSPF (familiar), Geo-Slope (familiar), SDR-Map (familiar), EFH (familiar), WaterMod (familiar), Irrigator Pro for Cotton (familiar), Irrigator Pro for Corn (familiar), RETC (familiar), Hydraulic solver (familiar), River flow (familiar), Water hummer (familiar), Reservoir simulation (familiar), Water networks (familiar), Culverts (familiar), Flood flows (familiar), Water balance (familiar), and WaSim (familiar)

AWARDS

1. Special prize for presenting the best paper in 2nd National Conference on Health, Safety and Environment (HSE), 2012
2. Chosen paper among all published papers in Journal of Mathematics and Statistics base on number of download, 2012
3. Chosen paper among all presented papers by Dr. Banihabib in http://www.civilica.com base on number of view, 2009
4. Top M.Sc. student (3rd place) at University of Tehran, 2008
5. Top B.Sc. student (3rd place) at Razi University, 2006

EMPLOYMENTS

1. Researcher at Department of Energy-Environment, Sharif Energy Research Institute (SERI), http://seri.sharif.ir, 2011-2012
2. Designer, advisor, and expert at Department of Irrigation, Sazeh Ab Shafagh Consulting Engineers Company, 2008-2009
3. Teaching of general subjects (computer programming, advanced engineering mathematics, differential equations, numerical computation, etc.) and specialized subjects (open channel hydraulics, fluid mechanics, surface and pressurized irrigation system design, drainage engineering, hydrology, meteorology, etc.) in M.Sc. and B.Sc. courses as student job, 2002-2008

COOPERATION AS REVIEWER AND EDITOR

1. International Journal of Computational and Mathematical Sciences
   *Description: Indexed in **Scopus**, **Impact Factor 0.18** (base on SJR website)*
2. International Journal of Civil and Environmental Engineering
   Description: pISSN 2010-3883, eISSN 2010-3891
3. International Journal of Engineering and Applied Sciences
   Description: pISSN 2010-3980, eISSN 2010-3999
4. International Journal of Mathematical and Computational Sciences
   Description: pISSN 2010-4103, eISSN 2010-4111

RESEARCH AND EXECUTIVE PROJECTS

1. Standardization of air pollutants emission factors in National Iranian Oil Company (NIOC), SERI, 2012
2. Standard setting for project implementation, SERI, 2012
3. Design of Environmental Flow Diagram (EFD) software, SERI, 2012
4. Optimization of irrigation systems in operation units of NIOC to increase of irrigation efficiency, SERI, 2011
5. Improvement of wastewater treatment in operation units of NIOC for reuse of wastewater, SERI, 2011
6. Codification of a comprehensive program for optimization of energy consumption in NIOC, SERI, 2011
7. Water supply project in Sistan and Baluchestan, Sazeh Ab Shafagh Consulting Engineers Company, 2009
8. Land leveling and access road construction project in Khorasan, Sazeh Ab Shafagh Consulting Engineers Company, 2009
9. Land leveling project for 1000 hectares in Tehran, Sazeh Ab Shafagh Consulting Engineers Company, 2009
10. Preparation of a comprehensive water atlas of the Zagros, Sazeh Ab Shafagh Consulting Engineers Company, 2008
11. Landscape design project in Bushehr, Sazeh Ab Shafagh Consulting Engineers Company, 2008
12. A comparative evaluation between ARIMA and ANN models in inflow forecasting to Dez Dam, University of Tehran, 2008
13. Optimization of irrigation channels, University of Tehran, 2007
14. Pressurized irrigation system design for Azadi Square in Tehran, Iran Drip Company, http://irandrip.iranton.com, 2006
15. Quantitative analysis of land topography using Lagrange equations and computer programming, Razi University, 2006
16. Studies of drainage plan, identifying proper drainage system, and estimating the cost of project, Razi University, 2005

PUBLISHED ISI PAPERS

1. **Valipour, M.,** Banihabib, M.E., Behbahani, S.M.R., 2012. Comparison of the ARMA, ARIMA, and the autoregressive artificial neural network models in forecasting the monthly inflow of Dez dam reservoir. Journal of Hydrology. http://dx.doi.org/10.1016/j.jhydrol.2012.11.017
   *Description: Indexed in **Thomson Reuters, Scopus**, **Impact Factor 3.271** (5-Year base on journal website), 2.89 (base on SJR website), 2.656 (base on journal website), this journal ranked 3rd among 70 ISI journals with Soil Science as subject category (base on SJR website)*
2. **Valipour, M.,** Banihabib, M.E., Behbahani, S.M.R., 2012. Monthly Inflow Forecasting Using Autoregressive Artificial Neural Network. Journal of Applied Sciences. 12 (20), 2139-2147. http://scialert.net/abstract/?doi=jas.2012.2139.2147
   *Description: Indexed in **Thomson Reuters, Scopus**, **Impact Factor 0.81** (base on SJR website), this journal ranked 24th among 74 ISI journals with Multidisciplinary as subject category (base on SJR website)*
3. **Valipour, M.,** Banihabib, M.E., Behbahani, S.M.R., 2012. Parameters Estimate of Autoregressive Moving Average and Autoregressive Integrated Moving Average Models and Compare Their Ability for Inflow Forecasting. Journal of Mathematics and Statistics. 8 (3), 330-338. http://thescipub.com/abstract/10.3844/jmssp.2012.330.338
   *Description: Indexed in **Scopus**, **Impact Factor 0.76** (base on SJR website), this journal ranked 50th among 107 ISI journals with Statistics and Probability as subject category (base on SJR website), this paper ranked as the most downloaded (more than 3000 times) among all published papers (more than 500 papers) in Journal of Mathematics and Statistics from 2005*
4. **Valipour, M.,** 2012. Critical Areas of Iran for Agriculture Water Management According to the Annual Rainfall. European Journal of Scientific Research. 84 (4), 600-608. http://www.europeanjournalofscientificresearch.com/ISSUES/EJSR_84_4_13.pdf
   *Description: Indexed in **Thomson Reuters, Scopus**, **Impact Factor 0.71** (base on SJR website), Acceptance Rate 10% (base on journal website), **Times Cited 1***
5. **Valipour, M.,** Montazar, A.A., 2012. Optimize of all Effective Infiltration Parameters in Furrow Irrigation Using Visual Basic and Genetic Algorithm Programming. Australian Journal of Basic and Applied Sciences. 6 (6), 132-137. http://www.ajbasweb.com/ajbas/2012/June/132-137.pdf
   *Description: Indexed in **Thomson Reuters, Scopus**, **Impact Factor 0.41** (base on SJR website)*
6. **Valipour, M.,** Montazar, A.A., 2012. Sensitive Analysis of Optimized Infiltration Parameters in SWDC model. Advances in Environmental Biology. 6 (9), 2574-2581. http://www.aensiweb.com/aeb/2012/2574-2581.pdf
   *Description: Indexed in **Thomson Reuters, Scopus**, **Impact Factor 0.36** (base on SJR website)*
7. **Valipour, M.,** 2012. Comparison of Surface Irrigation Simulation Models: Full Hydrodynamic, Zero Inertia, Kinematic Wave. Journal of Agricultural Science. 4 (12), 68-74. http://dx.doi.org/10.5539/jas.v4n12p68
   *Description: **Impact Factor 0.34** (base on journal website) 0.34 (base on Google Scholar), Acceptance Rate 57.33% (base on journal website)*
8. **Valipour, M.,** 2012. Sprinkle and Trickle Irrigation System Design Using Tapered Pipes for Pressure Loss Adjusting. Journal of Agricultural Science. 4 (12), 125-133. http://dx.doi.org/10.5539/jas.v4n12p125

*Description: **Impact Factor 0.34** (base on journal website) 0.34 (base on Google Scholar), Acceptance Rate 57.33% (base on journal website), **Times Cited 2***

9. **Valipour, M.,** Montazar, A.A., 2012. An Evaluation of SWDC and WinSRFR Models to Optimize of Infiltration Parameters in Furrow Irrigation. American Journal of Scientific Research. 69, 128-142. http://www.eurojournals.com/AJSR_69_14.pdf
   *Description: Indexed in **Thomson Reuters**, Acceptance Rate 10% (base on journal website), **Times Cited 2***

10. **Valipour, M.,** 2012. Number of Required Observation Data for Rainfall Forecasting According to the Climate Conditions. American Journal of Scientific Research. 74, 79-86. http://www.eurojournals.com/AJSR_74_09.pdf
    *Description: Indexed in **Thomson Reuters**, Acceptance Rate 10% (base on journal website), **Times Cited 1***

UNDER REVIEW ISI PAPERS

1. **Valipour, M.,** 2012. Precipitation Analysis in Humid Regions (A Case Study: Gilan, Iran). Agricultural and Forest Meteorology.
   *Description: Indexed in **Thomson Reuters, Scopus**, **Impact Factor 3.991** (5-Year base on journal website), 3.61 (base on SJR website), 3.389 (base on journal website), this journal ranked 1st among 109 ISI journals with Forestry as subject category (base on SJR website)*

2. **Valipour, M.,** 2012. Use of Surface Water Supply Index and Snow Water Equivalent to Assessing of Hydrologic Conditions in Colorado and Oregon, US. Journal of Hydrology.
   *Description: Indexed in **Thomson Reuters, Scopus**, **Impact Factor 3.271** (5-Year base on journal website), 2.89 (base on SJR website), 2.656 (base on journal website), this journal ranked 3rd among 70 ISI journals with Soil Science as subject category (base on SJR website)*

3. **Valipour, M.,** 2012. Runoff Long Term Trend in United States. Advances in Water Resources.
   *Description: Indexed in **Thomson Reuters, Scopus**, **Impact Factor 2.873** (5-Year base on journal website), 2.78 (base on SJR website), 2.449 (base on journal website), this journal ranked 9th among 58 ISI journals with Earth-Surface Processes as subject category (base on SJR website)*

4. **Valipour, M.,** 2012. HYDRO-MODULE DETERMINATION FOR VANAEI VILLAGE IN ESLAM ABAD GHARB, IRAN. ARPN Journal of Agricultural and Biological Science.
   *Description: Indexed in **Thomson Reuters***

5. **Valipour, M.,** 2012. INCREASING IRRIGATION EFFICIENCY BY MANAGEMENT STRATEGIES: CUTBACK AND SURGE IRRIGATION. ARPN Journal of Agricultural and Biological Science.
   *Description: Indexed in **Thomson Reuters***

6. **Valipour, M.,** Mousavi, S.M., Valipour, R., Rezaei, E., 2012. Air, Water, and Soil Pollution Study in Industrial Units Using Environmental Flow Diagram. Journal of Basic and Applied Scientific Research (JBASR).
   *Description: Indexed in **Thomson Reuters***

PUBLISHED INTERNATIONAL PAPERS

1. **Valipour, M.,** 2012. Scrutiny of Pressure Loss, Friction Slope, Inflow Velocity, Velocity Head, and Reynolds Number in Center Pivot. International Journal of Advanced Scientific and Technical Research. 2 (5), 703-711. http://rspublication.com/ijst/oct12/73.pdf
   *Description: **The IC Impact Factor Value (ICV) 6.2** (base on journal website)**, ISSN 2249-9954, Times Cited 1***

2. **Valipour, M.,** 2012. Ability of Box-Jenkins Models to Estimate of Reference Potential Evapotranspiration (A Case Study: Mehrabad Synoptic Station, Tehran, Iran). IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS). 1 (5), 1-11. http://iosrjournals.org/iosr-javs/papers/vol1-issue5/A0150111.pdf
   Description: ISSN 2319-2380, ISBN 2319-2372, Journal Citation Report 66.8% (base on journal website), Acceptance Rate 12.58% (base on journal website)

3. **Valipour, M.,** 2012. Effect of Drainage Parameters Change on Amount of Drain Discharge in Subsurface Drainage Systems. IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS). 1 (4), 10-18. http://iosrjournals.org/iosr-javs/papers/vol1-issue4/C0141018.pdf
   Description: ISSN 2319-2380, ISBN 2319-2372, Journal Citation Report 66.8% (base on journal website), Acceptance Rate 12.58% (base on journal website)

4. **Valipour, M.,** 2012. A Comparison between Horizontal and Vertical Drainage Systems (Include Pipe Drainage, Open Ditch Drainage, and Pumped Wells) in Anisotropic Soils. IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE). 4 (1), 7-12. http://iosrjournals.org/iosr-jmce/papers/vol4-issue1/B0410712.pdf
   Description: ISSN 2278-1684, Journal Citation Report 67.6% (base on journal website), Acceptance Rate 15.58% (base on journal website)

5. **Valipour, M.,** Mousavi, S.M., Valipour, R., Rezaei, E., 2012. SHCP: Soil Heat Calculator Program. IOSR Journal of Applied Physics (IOSR-JAP). 2 (3), 24-32.
   Description: ISSN 2278-4861, Journal Citation Report 68.9% (base on journal website), Acceptance Rate 22% (base on journal website)

6. **Valipour, M.,** 2012. Determining possible optimal values of required flow, nozzle diameter, and wetted area for linear traveling laterals. The International Journal of Engineering and Science (IJES). 1 (1), 37-43. http://www.theijes.com/papers/v1-i1/H011037043.pdf
   Description: ISSN 2319-1813, ISBN 2319–1805

PRESENTED INTERNATIONAL CONFERENCE PAPER

1. Banihabib, M.E., **Valipour, M.,** 2009. Comparison of the ARMA, ARIMA and the Autoregressive Artificial Neural Network Models in Forecasting the Monthly Inflow of Dez Dam Reservoir. In: 1st International Conference of Water Crisis, Zabol, Iran. http://www.civilica.com/Paper-ICWC01-ICWC01_146.html
   Description: This paper ranked as the most viewed (more than 2700 times) among all presented papers (more than 70 papers) by Dr. Banihabib in this website from 1998

UNDER REVIEW INTERNATIONAL CONFERENCES PAPERS

1. **Valipour, M.,** 2013. Prioritization of irrigation schedule base on drought occurrence probability. In: 3rd Conference on Rangeland, Watershed and Desert, Karaj, Iran.
   *Description: Indexed in **Conference Alerts (Academic Conferences Worldwide)***
2. **Valipour, M.,** 2013. Effect of recorded data and hydro climate on water resources management. In: 3rd Conference on Rangeland, Watershed and Desert, Karaj, Iran.
   *Description: Indexed in **Conference Alerts (Academic Conferences Worldwide)***
3. **Valipour, M.,** 2013. Comparison of Different Drainage Systems Usable for Solution of Environmental Crises in Soil. In: The 1st International Conference on Environmental Crises and its Solutions, Khouzestan, Iran.
4. **Valipour, M.,** 2013. Scrutiny of Inflow to the Drains Applicable for Improvement of Soil Environmental Conditions. In: The 1st International Conference on Environmental Crises and its Solutions, Khouzestan, Iran.
5. **Valipour, M.,** Mousavi, S.M., Valipour, R., Rezaei, E., 2013. A New Approach for Environmental Crises and its Solutions by Computer Modeling. In: The 1st International Conference on Environmental Crises and its Solutions, Khouzestan, Iran.

PRESENTED NATIONAL CONFERENCES PAPERS

1. **Valipour, M.,** Mousavi, S.M., Valipour, R., Rezaei, E., 2012. Application of EFD for Health, Safety and Environment (HSE) Sections. In: 2nd National Conference on Health, Safety and Environment (HSE), Mahshahr, Iran.
   Description: This paper was introduced as the best paper among all presented papers (more than 140 papers)
2. Banihabib, M.E., **Valipour, M.,** Behbahani, S.M.R., 2009. Auto-Regressive Oncoming Months Reservoir Inflow Forecasting Model Using Artificial Neural Network. In: 5th National Conference on Science and Engineering of Watershed Management with an Emphasis on Sustainable Management of Natural Disasters, Golestan, Iran.
3. Banihabib, M.E., **Valipour, M.,** Behbahani, S.M.R., 2008. Dynamic ANN for Monthly Inflow forecasting to Dez Dam Reservoir. In: 3rd Disaster Management Conference, Tehran, Iran.
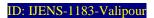
UNDER REVIEW NATIONAL CONFERENCES PAPERS

1. **Valipour, M.,** 2013. Determination of appropriate inflow regime using SIRMOD software for border irrigation. In: 12th National Conference on Irrigation and Evaporation Reduction, Kerman, Iran.
2. **Valipour, M.,** 2013. Basin irrigation simulation using different models by SIRMOD. In: 12th National Conference on Irrigation and Evaporation Reduction, Kerman, Iran.
3. **Valipour, M.,** 2013. Sensitive analysis of design parameters in pivot irrigation systems. In: 12th National Conference on Irrigation and Evaporation Reduction, Kerman, Iran.
4. **Valipour, M.,** 2013. Linear Irrigation design using PivNoz software. In: 12th National Conference on Irrigation and Evaporation Reduction, Kerman, Iran.
5. **Valipour, M.,** 2013. Calculation of water requirement for wheat, chickpea, corn, and sugar beet using CROPWAT and AGWAT softwares. In: The 1st national conference on solutions to access sustainable development in agriculture, natural resources and the environment, Tehran, Iran.
6. **Valipour, M.,** 2013. Estimation of evapotranspiration equations using time series analysis. In: The 1st national conference on solutions to access sustainable development in agriculture, natural resources and the environment, Tehran, Iran.
7. **Valipour, M.,** 2013. The best diameters for lateral and manifold in pressurized irrigation. In: The 1st national conference on solutions to access sustainable development in agriculture, natural resources and the environment, Tehran, Iran.
8. **Valipour, M.,** Mousavi, S.M., Valipour, R., Rezaei, E., 2013. Investigation about soil heat flux in different depths based on elapsed time. In: The 1st national conference on solutions to access sustainable development in agriculture, natural resources and the environment, Tehran, Iran.
9. **Valipour, M.,** 2013. Annual Rainfall Study for Flood Management. In: National Flood Management Conference, Tehran, Iran.

RESEARCH INTERESTS

1. Surface and pressurized irrigation
2. Drainage engineering
3. Relationship between energy and environment
4. Agricultural water management
5. Mathematical and computer modeling and optimization
6. Water resources
7. Hydrology
8. Hydrogeology
9. Hydroclimatology
10. Hydrometeorology

11. Hydroinformatics
12. Hydrodynamic
13. Hydraulic
14. Fluid mechanics
15. Heat transfer in soil media