Amirhossein Nazemi B.Sc., M.Sc., Ph.D.

Professor, Department of Water Engineering



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		nazemi@tabrizu.ac.ir

Education

Certificate Degree	Field of Specialization	Name of Institution Attended	Date Received
Ph.D.	Groundwater	University of Manchester	1998
		(UMIST), UK	
M.Sc.	Water Resources	University of Tabriz, Iran	1988
B.Sc.	Irrigation	University of Tabriz, Iran	1985

Specialization

Groundwater & Porous Media		

Thesis Titles

PhD: Modelling of Partially Saturated Soil	
MSc: Optimization of Open Channel System	

Teaching Areas

Title of Course	Level	Dates		Name of Institution
		From	To	

Transport Phenomena in Soil	Ph.D.	1998	University of Tabriz
Advanced Water and Soil Physics	Ph.D.	1998	"
Advanced Drainage	M.Sc.	1998	"
Advanced Groundwater	M.Sc.	2000	"
Flow in Porous Media	M.Sc.	2000	"
Technical English	B.S.	2010	"

Administrative Responsibilities

Job Title	Place of Work	Date		Name of Institution
		From	To	
Head	Department of Water Engineering	2010	2014	University of Tabriz
Director	Office of Graduate Studies	2005	2009	66
Deputy	Faculty of Agriculture	2000	2004	"

Academic Positions

Title of Position	Field of Specialization			Name of Institution
		From	To	
Professor	Irrigation and Drainage	2011		University of Tabriz
Associate Professor	Irrigation and Drainage	2006	2011	"
Assistant Professor	Irrigation and Drainage	1998	2006	66
Lecturer	Water Resources Engineering	1988	1993	66

Ph.D. Thesis Supervision

No	Full Name of Student	Year	Title of thesis
	Saeed Noorabadi	2017	Laboratory and Numerical Study of Management and Control Of
			Seawater Intrusion into Coastal Aquifers
	Farshid Taran	2016	Laboratory Study and Simulation of Solute Transport in soil under
			Irrigation or Rainfall
	Yaser Yekani Motlagh	2016	Simulation of Surface and Subsurface Water Flows in Trickle
			Irrigation by Using Navier-Stokes and Richard's Equation
	Habib Sayyadi	2015	Effects of Deflector Plate Condition on the Dynamics of Water Flow
			and Spray Characteristics of Center Pivot Irrigation Sprinklers
	Jalal Shiri	2014	Modeling Reference Evapotranspiration: Comparative Analysis
			between Artificial Intelligence Physical- Empirical Models
	Saeed samadian	2014	Simulation of Point Source Time- Depended Soil Moisture Profile
			using Pore- Network Modeling
	Fatemeh Salahshoor	2014	Water Flow and Salt Transport in Cracking Clay Soils and their
			Effects on Rice Yield
	Abolfazl Majnooni	2012	Modeling Water Flow and Uptake in Spring Canola Field
			Emphasizing of Root Growth Dynamics
	Shahram Shahmohammadi	2012	Simulation of Heavy Metals Transport in Unsaturated Porous Media
	Kalalagh		with Fractional Advection-Dispersion Equation (FADE)
	Ahad Molavi	2011	Soil Moisture Pattern under Continuous and Intermittent Flow in
			Drip Irrigation
	Sina Besharat	2010	Investigation of Water flow in soil with Root Water Uptake Based on
			Field Studies and Solution of Governing Equations
	Reza Dalir-Hassannia	2010	Dynamic Model for Water Distribution Pattern of Center Pivot
			Irrigation

Majid Raoof	2010	Infiltration and Soil Hydraulic Properties in Sloping Lands
Behrouz Safi	2008	Lateral Optimum Spacing and Subsurface Drip Irrigation
		Management for Onion Production
Hamid Zare Abyaneh	2006	Dynamics of Mass Flow in Layered and Non Layered Soils
Ali Ashraf Sadraddini	2005	Optimization of Surge Irrigation Using Tabu Search Method

M.Sc. Thesis Supervision

Mehdi Ghasemi 2016 Zoning and Investigating Groundwater Quality Variations of Tabriz Plain and Its Assessment Based on Cropping Patria.	No	Full Name of Student	Year	Title of thesis
Yasin Aali Amnab				
Sajad Faghfouri 2016 Investigating Spatiotemporal Variations of Global Solar Radiation Using Geographical Information System (GIS)				
Sajad Faghfouri 2016		Yasin Aali Amnab	2016	Numerical Simulatio of Water Movement and Heat Transfer in
Using Geographical Information System (GIS)				Unsaturated Soil
Fatemeh Gholipour 2015 Study and Simulation of Salt Distribution in Wetting Bulbs of Drip Irrigation		Sajad Faghfouri	2016	Investigating Spatiotemporal Variations of Global Solar Radiation
Mahsa Taheri 2015 Pollutant Transport Through Saturated Porous Media Under Discharge and Recharge Conditions				Using Geographical Information System (GIS)
Mahsa Taheri 2015 Pollutant Transport Through Saturated Porous Media Under Discharge and Recharge Conditions		Fatemeh Gholipour	2015	Study and Simulation of Salt Distribution in Wetting Bulbs of Drip
Discharge and Recharge Conditions		_		
Discharge and Recharge Conditions		Mahsa Taheri	2015	Pollutant Transport Through Saturated Porous Media Under
Sudy: Tabriz Plain				
Study: Tabriz Plain		Mostafa Sadeghzadeh Sadat	2014	Impacts of Surface Water Quality on Groundwater Quality (Case
Leaching Efficiency in Soil Columns with Consideration of Root Growth and Uptake Temporal and Spatial Estimation of Biomass and Evapotranspiration Using the Satellite (Case Study: East Azarbaijan Province, Iran) MohammadrezaKouchebaghi 2014 Statistical Analysis of Wind Velocity and its Effect on Reference Crop Evaporation in Tabriz Keivan Farajzadeh 2014 Simulation of Pulse Drip Irrigation and Determination of Wetted Depth and Diameter and the Most Appropriate On-Off Time Ratio Seyed Saber Sharifi 2013 Soil Moisture Irrigation Scheduling Germi Susan Valiahary 2013 Assessment and Analysis of Changes in Groundwater Level, Salinity and Alkalinity Using Geographic Information System (GIS) (Case study: Ardabil Plain Aquifer) Technical Performance Assessment of Trickle Irrigation Systems of Sattarkhan Dam Irrigation Network Sanam Etaei 2013 Estimating Quantitative and Qualitative Parameters of River Water Using Artificial Intelligence Techniques (Case Study: The Sowfi Chay River) Zahra Norouzian 2013 Experimental and Numerical Investigation of Soil Water Distribution Under Subsurface Drip Irrigation in Level and Sloping Layered Soils SayyadollahPouryousef 2013. Impact of Climate Change on Performance of Pressurized Irrigation Networks (case Study: Sattarkhan Dam, Iran) Hossein Aghamohammadpour Gharebagh Amir Ghorbani 2013 Evaluation of the accuracy of Predicting Models for Soil Wetting Pattern Under Point Source Micro Irrigation Study of Quantitative and Qualitative Changes of Groundwater due to Pumping from Coastal Aquifers Using Mathematical Model (Case Study: Sonab Coastal Aquifers Using Mathematical Model (Case Study: Bonab Coastal Aquifers Using Mathematical Models in Undisturbed and Disturbed Soils by Mathematical Models Integrated Spatial Multi Criteria Making (SMCDM) Methods with Geographical Information System (GIS) in Locating Artificial				
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Ali Rashid Niaghi Ali Rashid Niaghi MohammadrezaKouchebaghi MohammadrezaKouchebaghi Zota Statistical Analysis of Wind Velocity and its Effect on Reference Crop Evaporation in Tabriz Keivan Farajzadeh Zota Statistical Analysis of Wind Velocity and its Effect on Reference Crop Evaporation in Tabriz Seyed Saber Sharifi Zota Zota Mahmoodi Fard Germi Zahra Mahmoodi Fard Germi Susan Valiahary Zota Zota Simulation of Pulse Drip Irrigation and Determination of Wetted Depth and Diameter and the Most Appropriate On-Off Time Ratio Soil Moisture Irrigation Scheduling Zahra Mahmoodi Fard Germi Zota Assessment and Analysis of Changes in Groundwater Level, Salinity and Alkalinity Using Geographic Information System (GIS) (Case study: Arabail Plain Aquifer) Susan Valiahary Zota Estimating Quantitative and Qualitative Parameters of River Water Using Artificial Intelligence Techniques (Case Study: The Sowfi Chay River) Zahra Norouzian Zota Zota Zota Zota Experimental and Numerical Investigation of Soil Water Distribution Under Subsurface Drip Irrigation in Level and Sloping Layered Soils SayyadollahPouryousef Analyzing Simineh Coange on Performance of Pressurized Irrigation Networks (case Study: Sattarkhan Dam, Iran) Hossein Aghamohammadpour Gharebagh Amir Ghorbani Zota Soil Wetting Pattern Under Point Source Micro Irrigation Saber Jabbari Zota Study of Quantitative and Qualitative Changes of Groundwater due to Pumping from Coastal Aquifers Using Mathematical Model (Case Study: Bonab Coastal Aquifer) SepidehKarimi Zota Zota Soil Wetting Fattern Under Point Source Micro Irrigation Models for Soil Wetting Pattern Under Point Source Micro Irrigation Integrated Spatial Multi Criteria Making (SMCDM) Methods with Geographical Information System (GIS) in Locating Artificial		Ů,		Leaching Efficiency in Soil Columns with Consideration of Root
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Evaporation in Tabriz		MohammadrezaKouchebaghi	2014	
Depth and Diameter and the Most Appropriate On-Off Time Ratio				
Depth and Diameter and the Most Appropriate On-Off Time Ratio		Keivan Farajzadeh	2014	Simulation of Pulse Drip Irrigation and Determination of Wetted
Seyed Saber Sharifi 2013 Soil Moisture Irrigation Scheduling				
Zahra Mahmoodi Fard Germi 2013 Assessment and Analysis of Changes in Groundwater Level, Salinity and Alkalinity Using Geographic Information System (GIS) (Case study: Ardabil Plain Aquifer)		Seved Saber Sharifi	2013	
Susan Valiahary 2013 Technical Performance Assessment of Trickle Irrigation Systems of Sattarkhan Dam Irrigation Network		Zahra Mahmoodi Fard	2013	Assessment and Analysis of Changes in Groundwater Level, Salinity
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River		Sanam Etaei	2013	Estimating Quantitative and Qualitative Parameters of River Water
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Geographical Information System (GIS) in Locating Artificial		Nina Beighzali	2012	
				Recharging (case Study: Shabestar Floodplain)

JavadJafari	2012	Simulation of Water Quality and Quantity of Outflow from Drains Using System Dynamics
Farshid Taran	2012	Analysis of Contaminant Transport in Homogeneous and Heterogeneous Porous Media
Ali Afruzi	2012	Analytical Solution of Seepage from Ponded Fields into Drainage Ditches
Saeed Noorabadi	2012	Simulation and analysis of Soil Water Variation in Furrow Irrigation
Honeyeh Kazemi	2012	Empirical and Numerical Investigation of Soil Water Distributions Under Subsurface Drip Irrigation
Abdullah Ranjbar	2012	Effects of Sprinkler Types, Pressure Regulators, Meteorological Parameters and Field Topography on Water Application Uniformity of the Center Pivot Irrigation System
Mohammad Bazzaneh	2012	Determination the Optimum Arrangement and Spacing of Impact Sprinklers in Sprinkle Irrigation System under Various Wind Conditions
Amin Rostami	2012	Investigation of Infiltration under Spray Sprinklers of Center Pivot Irrigation
Moharram babaei	2012	Hydrological Simulation of Sofi Chay Watershed Using HSPF Model
Reza Karamad Sani	2012	Numerical Simulation of Flow in a Cyclone Filter for Drip Irrigation
Bakhshali Asghari	2012	Evaluation of Environmental Impacts of Moghan Irrigation and Drainage Network Operation
Hamid Khoshtaleh	2011	Determining Hydraulic Parameters of Soils of Karkaj Region Using the Vacuum Gauge and Pressure Plate
HamedKiafar	2010	Optimum Allocation of Water in Cropping Season Using Genetic Algorithm in Irrigation and Drainage Network of Soufichay
YaserYekani Motlagh	2010	Numerical Simulation of Flow at Junction of Lateral Pipe of Drainage System
Meysam Taheri Bad Mahmood	2010	Estimation of Appropriate Flow Rate, Distance and Layout of Drippers Using Hydrus 2D/3D
Mina Kazemi Zaryon	2010	Modeling Variations of Salinity and Some Chemical Characteristics of Unsaturated Soils
Mojtaba Keshavarzi Hasanabad	2010	Effect of Soil Texture and Organic Matter on Accuracy of Time Domain Reflectometry Equation for Measurement of Soil Moisture Content
Farzad Fotoohi	2009	Study of Land Leveling Methods in Paddy Fields with Different Topographies
Shaghayegh Molahoseini	2009	Optimization of Tube Well Drainage Systems by Mathematical Programming
Mohammad Reza Nikpoor	2009	Water Hammer Simulation Using Physical Model and CFD Numerical Model
FarhadAslani	2009	Estimation of Appropriate Depth and Spacing of Subsurface Drains Based on Drain Water Quality
Mehdi Bari Burachalo	2009	Analysis of Seawater Intrusion on Costal Aquifers and Groundwater Quality Variations (a case study on Salmas coastal aquifer)
Solmaz Seraj Rezaei	2008	Study of Interaction Between River and Aquifer (Case Study: Ghalehchay River)
Jalal Shiri	2008	Study of the Entrance Resistance Effects on the Performance of Drainage Systems
Nader Karimi	2008	Estimation of Cucumber Water Requirement and Yield in Greenhouse underDeficit Irrigation
Behnam Najafi	2007	Prediction of Groundwater Flow to Drains
Khadijeh Tabatabaee	2005	Optimization of Urban Water Supply (Marand Town Pilot)
Shahram Shahmohammadi Kalalagh	2004	Analytical Investigation of Mass Transport in Porous Media
Abbas Tadayon Nejad	2003	Simulation of Surge Irrigation Using Kinematic Wave Model for Karkaj Farms of Tabriz University
Sabereh Darbandi	2002	Physical – Mechanical Analysis of Unsaturated Soil
Mojtaba Jalilzadeh	2000	Optimization of Groundwater Utilization

Selected Journal Publications

- Shiri, J., Marti, Pau., Nazemi, AH., Sadraddini, AA., Kisi, O., Landeras, G. and Fakheri Fard, A. 2015. Local vs. external training of neuro-fuzzy and neural networks models for estimating reference evapotranspiration assessed through K-fold testing. Hydrology Research, No. 46(1): 72-88.
- Shiri, J., Sadraddini, AA., Nazemi, AH.Marti, Pau., Fakheri-Fard, A., Kisi, O. and Landeras, G. 2015. Independent testing for assessing the calibration of Hargreaves-Samani equation: New heuristic alternatives for Iran. Computers and Electronics in Agriculture. Vol 117: 70-80.
- Shiri, J., Nazemi, AH., Sadraddini, A.A., Landeras, G., Kisi, O., Fakheri Fard, A., Marti P. 2014. Comparison of heuristic and empirical approaches for estimating reference evapotranspiration from limited inputs in Iran.Computers and Electronics in Agriculture 108: 230-241.
- Sayyadi, H., Nazemi, AH. Sadraddini, A.A., and Delirhasannia, R. 2014 Characterising droplets and precipitation profiles of a fixed spray- plate sprinkler. Biosystem Engineering, No: 119.
- Shiri, J., Nazemi, AH. Sadraddini, AA., Landras, G., and Kisi, O. 2013. Global cross-station assessment of neuro-fuzzy for estimating daily referece evapotranspiration. J Hydrology, 480: 46-57
- Shiri, J., Sadraddini, AA., Nazemi, AH. Kisi, O. and Marti, Pau. 2013. Evaluation of different data management scenarios for estimating daily reference evaporation. Hydrology Research Journal. On line 18 February 2013- ISSN Print:0029-1277.
- Nazemi, A.H., Sadraddini, A.A., Majnooni- Heris, A., Tuzel, I. H. 201.3 Effects of water stress on the yield and water use efficiecy of canola. J. Ege Univ. Faculty of Agricuture, Vol 1(1): 127-121.
- Sadraddini, A.A., Nazemi, A.H., Majnooni- Heris, A. 2013. Quantufying the effects of advection phenomenon on canola evapotranspiration in East Azarbijan region, IRAN. J. Ege Univ. Faculty of Agricuture, Vol 1(1): 145-139
- Shiri, J., Sadraddini, AA., Nazemi, AH. Kisi, O., Landeras, G., Fakheri-Fard, A., and Marti, Pau., 2013. Generaliazability of Gene Programming-based approaches for estimating daily reference evapotranspiration in coastal stations of Iran, Journal of Hydrology, No 508: 11-1.
- Nazemi, A.H. and Majnooni-Heris, A. 2012. A mathematical model for the interactions between non-identical rough spheres, liquid bridge and liquid paper. 369: 402-410.

Yekani Motlag, Y., Nazemi, A.H., Sadraddini, A.A., Abbaspour, A., Yekani Motlag, Y. 2012. Numerical investigation of the effects of combining sewer junction characteristics on the hydraulic parameters of flow in fully surcharged condition. Water and Environmental Journal, No: 347:1-12.

Molavi, A., Sadraddini, AA., Nazemi, AH., Fakheri-Fard, A., 2012. Estimating wetting front coordinates under surface trickle irrigation. Turkish Journal of Agriculture and Foresty, 36

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