



## Curriculum Vitae (C.V.) of Dr **Behzad Ghorbani** (Associate Professor)

### 1. Personal Information:

- Given name: **Ghorbani**  
 - Surname : **Behzad**  
 - Academic level: Associate Professor  
 - Date of born: 29/3/1955  
 - Place of born: Abadeh Township, Iran  
 - Marital status: Married  
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[behg1955@yahoo.com](mailto:behg1955@yahoo.com)

### 2. Education:

Name of Institution	Location	Degree	Date
Cranfield University	Bedford, UK	PhD	1997
Shiraz University	Shiraz, Iran	MSc	1987
Shiraz University	Shiraz, Iran	BSc	1978

### 3. Experience:

He is specialized in:

- 1- Pressurized irrigation systems
- 2- Scour at hydraulic structures
- 3- Soil and water conservation practices
- 4- River engineering
- 4- Open channel hydraulics and reservoirs
- 5- Modeling

### 4. Teaching courses:

- Mathematical modeling on irrigation and drainage, Ph. D level
- Water management on Farm, Ph. D level
- Open channel hydraulics, MSc level
- Fluid mechanics, BSc level
- Hydraulics on closed conduits and pipes, BSc level
- Design of pressurized irrigation systems, MSc and BSc levels
- Irrigation principles and practices, BSc level
- Surveying, BSc level
- Sprinkler irrigation, MSc level

- Hydrology, BSc level
- Soil and water conservation, BSc level

## 5. Membership in Societies:

- 1- Canadian Civil Engineering Society
- 2- Iranian Hydraulics Society
- 3- Iranian Irrigation and Drainage Society
- 4- Iranian committee of Irrigation and Drainage
- 5- International committee of Irrigation and Drainage
- 5- Iranian Soil Science Society
- 6- ECARDA
- 7- Society of Shiraz University Graduations
- 8- Agricultural and Natural Resources Engineering Organization of Islamic Republic of Iran
- 9- EUROMECH

## 7. Publications in refereed journals:

### A- papers (in English)

- 1- **Ghorbani, B.**, Pourvaezi, R. and Mirzaei, S.J., The Impact of Rice Husk, Activated Carbon, Almond Shell and Sand Filters on Some Physical and Chemical Properties of Aqueous Salt Solution, Desalination and water Treatment Journal, 1-8, 2015.
- 2- **Ghorbani B.**, Jalalian, A. and Reza Habibian, R. Assessment and simulation of biological soil conservation countermeasure (Case study: Northern Karoon River Watershed, Iran ), International Journal of Forest, Soil and Erosion, Vol.2, No 4, 2012.
- 3- Samadi, H. Ghazali, M, **Ghorbani, B.** and Fatahei, R., 2013, Effect of Triangular Corrugated Beds on the Hydraulic Jump Characteristics, Canadian J. of Civil Engineering, 40:1-7.
- 4- Parsmehr\*. M. and **Ghorbani, B.** , (2014) Evaluation of the effect of attack angle of submerged vanes on reducing scour by contraction strand (case study: contraction to 30 cm), Agricultural Advances 3(6), 194-203.
- 5- Mohamadzadeh, N., Afzalimeher, H. Singh, V.P. and **Ghorbani, B.** 2014 On flow resistance due to vegetation in a gravel-bed river International j. of Hydraulic Engineering,-3(3): 85-92.
- 6- Gholami, Z. **Ghorbani, B.** Hooshmand and E.I Moghbeli 2014 Evaluation of Modified Bagasse Fly Ash Nanoparticles on Cadmium (II) Removal from Contaminated Waters International Journal of Agriculture Innovations and Research, Volume 3, Issue 1, ISSN :2319-1473.
- 7- **Ghorbani, B.** and J. Kells, 2008 Effect of submerged vane on local scour depth at cylindrical pier Journal of Hydraulic Research , Vol.46, No. 5, pp. 610-619 (ISI) □
- 8 - **Ghorbani, B.**, 2008 A Field study of scour at flood plain rivers Turkish Journal of environmental and Engineering, 32, p. 1-11, Turkey (ISI) □.

- 9- **B. Ghorbani** \*, M. Bazaz Assessment of Rough Bed Length Variations on the Hydraulic Jump Features, *International Journal of Inventive Engineering and Sciences*, 3(9), 14-20, 2015.
- 10- Ghorbani, B. and J. Kells, 2008 Effect of submerged vane on local scour depth at cylindrical pier *Journal of Hydraulic Research* , Vol.46, No. 5, pp. 610-619.
- 11 - Ghorbani, B, 2008 A Field study of scour at flood plain rivers *Turkish Journal of environmental and Engineering*, 32, p. 1-11, Turkey.

#### B- papers (in Persian)

- 1- Khalil Moghaddam, B., **Ghorbani, B.** and Gorbani, S. 1392 Evaluation of the relationship between land use with sediment load in order to assess the accuracy of EURSOSEM in a part of North Karoun Watershed, *J. of Soil Management and Sustainable Yied*, 3(1), 15-28.
- 2- Zangeneh, M. and **Ghorbani, B.** and Samadi. M.H., 1392 Evaluation of slope and density of culture impact on runoff generation under rain-gun and furrow irrigations, *J. of Irrigation and Drainage*, 7(2), 1-11.
- 3- Mirzaei, S.J., **Ghorbani, B.**, Moazed, H., Abedi Kopaei, J., Salahei, A. and Pourvaezi, R. 1392 Removal of Ca, Mg, Cl, and Bicarbonate from Salt water using modified absorbers, *Iranian Water Research j.*, 7(12), 63-69.
- 4- Pourvaezi, R., **Ghorbani, B.**, and Mirzaei, S.J. 1392 The impact of organic absorbers (wheat husk and sawdust) on salt and brackish water, *Iranian Water Research j.*, 7(12),
- 5- Zebardast, S., Tabatabaei, S.H. and **Ghorbani, B.**, 1392 Simulation of advanced curve in furrow irrigation with continues input flow rates and cut-back, *J. of Water Research in Agriculture*, 3(27), 369-378.
- 6- Azizi, A., **Ghorbani, B.**, Tabrizi, H. and Samadi, M.H. 1392 Evaluation of submerged vane impact on hydraulic jump properties in stilling basins, *J. of Hydraulics*, 8(1), 73-81.
- 7- Moshashaei, S.M., Asadi Aghbolaghi and **Ghorbani, B.** 1393 The impact of accumulated floating wooden bodies on local scour around rectangular pier with sharped nose, *Iranian Water Research j.*, (accepted).
- 8- Rezapourian, S. and **Ghorbani, B.**, 1389 Lab evaluation of submerged vane angle of attack impact on local scour reduction at upstream of cylindrical pier, 5(1),
- 9- Ghazali, M., Samadi, M.H., **Ghorbani, B.** and Fatahei, R., 1389 The impact of wavy triangular bed on hydraulic properties, *Iran Water Research j.*, 7(4), 99-107.
- 10- Bazaz, M., **Ghorbani, B.** and Samadi, M.H. 1390 Evaluation of velocity profile changes with respect to changes of rough length in hydraulic jump properties on rough bed, *J. of Hydraulics*, 6(3),

- 11- Nouri, M.R., Rahmati, A., **Ghorbani, B.** and Mohammad Khani, M.R. 1390 Evaluation of aeration and covering impact on depercolation and final infiltration in soil on Lolium grass, *J. of Water and Soil*, 6(25), 1228-1238.
- 12- Bazaz, M., and **Ghorbani, B.** 1391 Evaluation of length and height of roughness changes on hydraulic jump properties, *J. of Hydraulics*, 7(3),
- 13- **Ghorbani, B.**, Faryabi, A., Zebardast, S. and Hashemi, A.A., 1391 Efficient farm management under wheel move sprinkler irrigation system, *J. of Farmer- Water and Irrigation*, 32.
- 14- **Ghorbani, B.** and Amini, M. 1389 Assessment and comparison of conventional, wheel move and center pivot sprinklers irrigation systems in Shahr-e-Kord township. *J. of Irrigation and Drainage*, 3(4).
- 15- Hamidpour M., Jalalian A., Afyuni M. and **Ghorbani B.** 2013, Sensitivity Analysis, Calibration and Validation of **Eurosem model** for Prediction of Runoff in the South Karoun Watershed. *JWSS - Isfahan University of Technology*, 16 (62) :49-60 (in Persian).
- 16- Mirzaei, S.J., **Ghorbani, B.**, Ramazani Aetedali, M., Aghakhani, A. and Pourvaezi, R., 1393 Removal of water harness from salt water using different absorbers, *J. of Water and Soil Knowledge*, Tabriz.
- 17- Samadi, M.H., Akbari, N. and **Ghorbani, B.**, 1393 Lab evaluation of shear stress of incipient motion of erosion of deposited cohesive sediments with different consolidation, *J. of Science and Irrigation Engineering, Ahvaz (J. of Scientific Agriculture)*, 37(3), 123-135.
- 18- Tabrizi, H., Fatahi, R. and **Ghorbani, B.**, 1394 Lab evaluation of discharge coefficient of sharped trapezoidal side lateral weir, *Iran Water Research j.*, Vol. 9, 1(16), 123-133.
- 19- Tabrizi, H., Fatahi, R. and **Ghorbani, B.**, 1393 Evaluation of discharge coefficient of sharped trapezoidal, rectangular and triangular side lateral weirs, *J. of Water and Soil knowledge*, Tabriz (accepted).
- 20- Ahmadi Moghadam, Z., **Ghorbani, B.** and Nouri Imam Zadei, M.R., 1394 Time effect of mulch on physical soil properties, *J. of Science and Irrigation Engineering, Ahvaz (J. of Scientific Agriculture)*, (accepted).
- 21- Ghorbani, B. and Jafari Fesharaki, M., 1394 Evaluation of impact of slope and density of unevenness of a micro-catchment with heavy soil texture on runoff and erosion using EUROSEM, *J. of Irrigation and Drainage*,
- 22- **Ghorbani, B.**, 1388 Simulation of mechanical soil and water conservation technique in watersheds using EUROSEM, *J. of Soil and Water, Iranian Society of Soil Science*, 79-89.
- 23- Hedarpour, M., **Ghorbani, B.**, Keikhani, M. and Pir Mohammadi, R., 1387 The effect of pier slot on sustainability of riprap at cylindrical pier, *J. of Iran Hydraulics*, 3(3), 15-28.
- 24- Jalalian, A., Amirpour, M., **Ghorbani, B.** and Ayobi, S. , 1386 Simulation of runoff and sediment using EUROSEM, *J. of Science and Technology of Agriculture and Natural Resources*, 4(11).
- 25- Zamani, M. and **Ghorbani, B.**, Evaluation of Zeolit and its application in purifying of industry and agricultural sweage, *J. of Zeiton*.

- 26- Samadi. M.H., **Ghorbani, B.** and Zangeneh, M., 1387 Evaluation of efficiency of EURSOSEM to predict runoff and erosion under rain gun sprinkler irrigation, *J. of Irrigation and Drainage*, 2.
- 27- Nourmahnad, N., Nouri Imam Zadei, M.R., **Ghorbani, B.** and Mohammadkhani, A. 1387 Evaluation of water deficit management effect on water efficiency and some physical properties of tomato, *J. of Science and Technology of Agriculture and Natural Resources*.
- 28- Jalalian, A., Hamidpour, M., **Ghorbani, B.** and Ayobi, Sh. , 1386 Simulation of runoff and sediment using EUROSEM at sub-catchment of Tange Ravagh at Kogiloyeh and Boyer Ahmad Province, Iran, *J. of Iran Natural Resources*, 4(6).
- 29- **Ghorbani, B.** and Khirabi, J., 1376 Inclopedia of water and climate for development of water resources, *J. of Water, Soil and Machine*, 39(5).
- 30- **Ghorbani, B.**, 1380 Practical methods to determine soil infiltration under sprinkler irrigation, *J. of Technology*, No. 1.
- 31- **Ghorbani, B.** 1384 A mathematical method to predict soil infiltration capacity under sprinkler irrigation, *J. of Agricultural and Natural Resources Sciences of Gorgan*, 21-28.
- 32- **Faryabi, A.** and Ghorbani, B. 1394

#### 8-Books and Scientific Reports

- 1- Ghorbani, B. and Khirabi, J., 1386 Big Irrigation machines, 1<sup>st</sup> edition, published by Jahade Daneshgahei, Isfahan Un. of Technology, Iran, pp.300.
- 2- Ghorbani, B. and Khirabi, J., 1391 Big Irrigation machines, 2<sup>nd</sup> edition with reformation, published by Jahade Daneshgahei, Isfahan Un. of Technology, Iran, pp.350.
- 3- Khirabi, J., and Ghorbani, B., 1387 Irrigation principles and fundamentals of conventional sprinkler irrigation, published by Jahade Daneshgahei, Isfahan Un. of Technology, Iran, pp.338 (Book of year).
- 4- Ghorbani, B. and Shayannejad, M., 1386 Proceeding of Conference Sixth of Hydraulic of Iran.
- 5- Ghorbani, B., 1382 From University to Meka, Published by Basaer, Isfahan, Iran, pp. 63.
- 6- Ghorbani, B. and Samadi, 1391 The culture of water use optimization (an effective way to prevent water crises), 1<sup>st</sup> edition, published by Water Resources Research Center and Water Organization Office, Shahrekord Universty, Iran.
- 7- Ghorbani, B. and Samadi, 1392 The culture of water use optimization (an effective way to prevent water crises), 2<sup>nd</sup> edition, published by Water Resources Research Center and Water Organization Office, Shahrekord Universty, Iran.
- 8- Ghorbani, B. and Tabatabaei, S.H., 1392 Field and lab user guide of irrigation, 1392, published by Shahrekord Universty Press.
- 9- Ghorbani, B. 1380 A report on soil infiltration under sprinkler irrigation, Shahrekord Universty, Iran.

- 10- Ghorbani, B. 1379 A report on runoff of prediction under rain-gun sprinkler irrigation, Shahrekord Universty, Iran.
- 11- Ghorbani, B. and Heidarpour, M., 1382 A report on riprap and slot countermeasures to control and to reduce local scour at bridge piers, Shahrekord University, Iran.
- 12- Ghorbani, B. and Jalalian, A., 1382 A report on the cause of pastures Destruction at Chaharmahal and Bakhtiari Province, Isfahan University of Technology, Iran.
- 13- Ghorbani, B., 1388 A report on sprinkler irrigation assessment at Chaharmahal and Bakhtiari Province, Organization of Jihad Keshvarzi, Iran.
- 14- Ghorbani, B., 1390 A report on trickle irrigation assessment at beside of Zayandeh roud River, Chaharmahal and Bakhtiari Province, Organization of Jihad Keshvarzi, Iran.
- 15- Ghorbani, B. and Ansari, M., 1392 A report on free vortex of water flow parameters using a lab model, Shahrekord University, Iran.
- 16- Ghorbani, B., 1392 A report on study of bed furnished with riprap impact on hydraulic jump properties, Shahrekord University, Iran.

### **8. On – going research projects:**

- 1- The effect of seepage from unlined open channels on aquifers
- 2- Research on the possibility of fish farming wastewater treatment to use in drip irrigation systems

### **9- Finished Projects and Researches:**

- 1-Ghorbani, B. A mathematical model to predict surface runoff under sprinkling irrigation conditions, 1997.
- 2- Ghorbani, B. Evaluation of local scour depth around bridge piers in flood basin rivers in Farse province, Iran, 1986.
- 3- Ghorbani, B..Prediction of runoff under traveling rain- gun, 2000
- 4- Ghorbani, B. A comparison of soil infiltration under surface and sprinkling irrigation systems, 2001.
- 5- Ghorbani, B. and Hedidarpour M. Using slot and ripraps measures to control and reduction of local scour depth around bridge piers, 2004.
- 6- Jalalian, A. and Ghorbani, B. Evaluation of reasons of pasture destruction in Kohrang region, Chaharmahal and Bakhtiari Province, Iran, 2004.
- 7- Ghorbani, B. 1383 Evaluation of submerged vane effect on scour depth at cylindrical pier, University of Saskatoon, Canada.
- 8- Ghorbani, B. 1392 Design and construction of vorticity apparatus for simulation of forced vortex, Hydraulic Lab of SKU, Iran.
- 9- Ghorbani, B. 1388 Evaluation of sprinkler irrigation systems at Shahrekord and Brojen Townships, Iran.
- 10- Ghorbani, 1392 Evaluation of drip irrigation systems on orchards at beside of Zayandeh roud river, Iran.

11- Ghorbani, 1393 The effect of riprap on hydraulic jump properties, Hydraulic Lab of SKU, Iran.

## 10. Student supervision projects:

### A. Ph.D. student:

- 1- Mirzaei, S.J., 1391 Effect of Rezine ion exchange, almond husk, bentonite and hydroxyapatite at nano and micro scales to desalinate irrigation water, SKU, Iran.
- 2- Faryabi, A. 1394 Possibility of purification of effluent cellar fishes farm to use in drip irrigation systems, SKU, Iran.
- 3- Tavakoli, A., 1394 Seepage from unlined channels effect on aquifers, SKU, Iran.

### B- MSc student:

- 1- **Amini, M.** (MSc student) Evaluation of Sprinkler irrigation systems at Shahrekord Twonship.
- 2- **Zangeneh, M.R.** (MSc student) Evaluation of sprinkler irrigation effect with traveling raingun on soil physical properties, runoff, erosion and sediments using EUROSEM.
- 3- Modeling of the cohesive sediments transport within the re-regulating dam reservoir using the MIK11 model.
- 4- **Khalil Moghadam, B.** (MSc student) Evaluation of EUROSEM at Tabarak subcatchment in Bazoft River catchment at Northern Karoon watershed, 2001
- 5- **Habibian, R.** (MSc student) Quantitative evaluation of soil and water conservation practices to reduce runoff and erosion from a part of sub-catchment of Vanak catchment from Northern Karoon River Watershed, Iran.
- 6- **Amir pour,** (MSc student) Evaluation of European Soil Erosion Model (EUROSEM) in Tang Ravagh region from Southern Karoon River located in Kohgiluyeh and Boyer Ahmad Province, Iran.
- 7- **Hamid pour,** Evaluation of soil physical factors effects on runoff, erosion and sediments production on a part of Northern Karoon River Watershed, Chahar Mahal and Bakhtiari Province, Iran.
- 8- **Jafari, M.** Evaluation of some of soil physical properties effects on runoff, erosion and sediments production on Soligan Region, Chahar Mahal and Bakhtiari Province, Iran.
- 9- The effect of submerged vane series on scour depth at cylindrical piers.
- 10- **Dabardani, A.** (MSc student) The effect of submerged double vanes on scour depth at cylindrical piers.
- 11- **Nourmahnad** A comparison of partial and full irrigation regimes on irrigation efficiency and productivity of tomato.
- 11- **Moghbel,** (MSc student) Assesment of bed and sides vegetable cover effect on flow velocity and shear stress.
- 12- **Ghazali, M** Effect of wavy triangular bed surface on hydraulic jump characteristics.

- 13- **Shahbazinfard, A.** (MSc student) Evaluation of drip irrigation systems at Shahrekord Twonship.
- 14- **Parse mehr, M.** (MSc student) The effect of submerged vanes protection on contraction scour.
- 15- **Rezapourian,** The effect of submerged vanes on the reduction of scour at cylindrical bridge piers.
- 16- **Habibian, R.** Assessment and simulation of biological and mechanical soil conservation countermeasure in Northern Karoon River Watershed, Iran
- 17- **Bazaz, M.** Evaluation of triangular corrugated stilling basin length and roughness on hydraulic characteristics of jump.
- 18- **Ahmadimoghadam, Z.** A comparison of super absorbent with some types of mulch effects on soil physical properties.
- 19- **Soltani, H.** Evaluation of submerged vanes dimensions and vertical angle set up effect on hydraulic jump properties.
- 20- **Tabrizi, H.** Evaluation of discharge coefficient for side weirs with various cross section shapes and various hydraulic properties in main channel
- 21- **Ekrammia, A.R.** Investigation on using geotextiles in subsurface intakes for physical water treatment.
- 22- **Azizi, A.** Evaluation of submerged vanes impact on characteristics of hydraulic jump in stilling basins.
- 23- **Nouri, A.E.** Control of the local scouring around the cylindrical bridge pier using armed soil by geotextile.
- 24- **Aminorroaya, A.** Evaluation of superabsorbent A200 and zeolite in improving moisture distribution patterns in drip irrigation in two soil textures.
- 25- **Holakoui, S.** Evaluation of different methods of local scour depth prediction at cylindrical bridge piers.
- 26- **Jahadi M.** lab experiment to predict lateral weir coefficient.
- 27- **Arsalan, E.** Simulation of suspended fine sediments in reservoir of regulated dam using MIKE 11.
- 28- **Akbari, N.** Experimental Study of Erosion Threshold Shear Stress of Deposited Cohesive Sediments with Different Self-Weight Consolidation
- 29- **Rahmati, A.** Evaluation of aeration and covering of grasses on accumulated infiltration.
- 30- **Khabez, A.** Estimation of runoff and sediment yield in Darabkola basin (Mazandaran province), using EUROSEM, satellite data and GIS technique.
- 31- **Kheirolahpoor N.H.** Experimental study on the effect of the stilling basin furnished with gabion on the hydraulic jump characteristics.
- 32- **Fathi, M.** Modeling of flow pattern in a natural meander river using CCHE2D.

## 11- Conference papers:

### More than 63 conference papers

- 1- **Ghorbani, B.** and Karimi, A A comparison of single and double vane effect on scour depth at cylindrical pier The Sixth Iranian Hydraulic Conference, Shahrekord, M7-266-276, Iran, 1386.
- 2- **Ghorbani, B.** Simulation of biological conservation measure Shahrekord, M7-266-276, Iran, 1386.



- 3- **Ghorbani, B.** Using sprinkling application rate to estimate final soil infiltration capacity the Fourth Iran-Russia Conference, Timiriazof Un. Russia, 2002.
- 4 -**Ghorbani, B.** and Kells, J., - A field study of scour at bridge piers in Fars province, □□□(GC-209-1)-(GC-209-10), □□□□□□Canada.
- 5- **Ghorbani, B.** Evaluation of plastic mulch effect on cucumber and tomato yields at flowering and production stages the Fifth Iran-Russia Conference,□□□□□□
- 6- **Ghorbani, B.** A glance at historical Iranian qanats, an emphasis on Vezvan qanat in Esfahn, Tehran, Iran, 2007.
- 7- **Ghorbani, B.,** Jalalin, A. and Habibian, R. Simulation of biological measures to reduce runoff and erosion from Northern Karoon rive, Regional Conference on Water Scarcity, Shahrekord,□□□□□□□□ 2006
- 8- **Ghorbani, B.** and Jalalin, A A comparison between climatic and human impact on destruction of rangelands in Kohrag region Ininternational Conf. of Human impact on soil quality, Isfahan Un. of Technology, 2005
- 9- Hamidpour, M. Jalalin, A., **Ghorbani, B.** and Mousavi, S.F. Evaluation of EUROSEM model in South Karun watershed, IRAN, International Conf. of Human impact on soil erosion, Isfahan Un. Of Technology, 2005
- 10- **Ghorbani, B.**The effect of submerged vanes on hydraulic properties of open channel flow ,Water Crises Conference, Kerman 1385.
- 11- **Ghorbani, B.** A glance at Qanats in Iran with an emphasis on rural development, The Fifth Iran-Russia Conference, Saint Petersbourk Un., Russia, 2009
- 12- Kells, J., Azinfar, H\*. and **Ghorbani, B.** Effect of spur spacing on flow resistance in an open channel, 32th Canadian Civil Engineering Conference , 2005
- 13- **Ghorbani, B.** Predicting runoff under stationary sprinkler irrigation systems, ICID Conference, China, 2005.
- 14- **Ghorbani, B.** Predicting water losses (runoff) under moving sprinkler irrigation using the european soil erosion model(eurosem), the First International Conference on Water Crise , Zabol, Iran, 2009.
- 15- **Ghorbani, B.**<sup>1</sup>, Rezapourian Ghahfarrokhi, S. <sup>2</sup>and Samadi, H.<sup>3</sup> Using submerged vanes series to control scour depth at cylindrical pier EUROMECH 523, Clermont-Ferrand, France, 15-17 June, 2011.
- 16- **Ghorbani, B.** and Pourvaezi, R. 1391 Evaluation of sawdust, wheat and rice hulls effect on desalination of brackish water IGWC at Maulana Azad College, Auranagbad, India.
- 17- **Ghorbani, B.** and Pourvaezi, R. Evaluation of sawdust, wheat and rice hulls effect on desalination of brackish water IGWC IGWC Maulana Azad College, Auranagbad, India. \ ۳۹ \
- 18- S.M. Moshashaei, M. Asadi Aghbolaghi & **B. Ghorbani** The effect of woody debris accumulation on local scour and hydrodynamic loads at bridge pier International Conference on Civil Engineering, Architectures and Urban Sustaiable Development, 1392.
- 19- **B. Ghorbani,** and M. Amini Assement of sprinkler irrigation systems operation at Chaharmahal and Bakhtiari Province, Iran ICID 21th Internatinal Congress on Irrigation and Drainage, Tehran, 2011.
- 20- **Ghorbani, B.** and Am̄ini, M., 1391 Management of sprinkler irrigation at Chaharmahal and Bakhtiari Province, 3th National Conference on comprehensive Water Management on Farm, Karag, Iran
- 21- Fathi, M., Honarbakash, A., Davodian, A.R., **Ghorbani, B.,** Rostami, M., Saghaeian, H. and Saba, E.A., 1390 Modeling of flow pattern in a natural meander river using CCHE2D, Proceeding of 7<sup>th</sup> National Conference on Science and Watershed Engineering, Isfahan University of Technology.

- 22- Dehghani, M. and **Ghorbani, B.**, 1394 The effect of drought stress on water use efficiency and yield of three varieties of sunflower in Isfahan, 14<sup>th</sup> Congress of Soil Science of Iran, Rafsengan.
- 23- Dehghani, M. and **Ghorbani, B.**, 1394 The effect of every other furrow irrigation method on corn in Isfahan, 14<sup>th</sup> Congress of Soil Science of Iran, Rafsengan, Iran.
- 24- **Ghorbani, B.** and Zamanian, M., 1393 Pressurized irrigation, a way to go out of agricultural drought crises (Case study: Drip Irrigation), 2<sup>nd</sup> Congress on Drought, Shahrekord, Iran.
- 25- Ekramnia, A.R. , **Ghorbani, B.**, Ahmadi, GH and Moshashaei, S.M., 1393 Surface and underground water harvesting by constructing underground dams (Case study: supply drink water ), 1<sup>st</sup> Conference on Civil Engineering and Sustainable Development of Iran, Tehran, Iran.
- 26- Ahmadi Moghadam, Z., **Ghorbani, B.** and Nouri, M.R., 1391 Effect of SuperabA200 absorbent on some physical properties of soil, 3<sup>rd</sup> National Conference on Agricultural Science and Food Industry, Fasa, Iran.
- 27- Soltani, H. and **Ghorbani, B.**, 1393 Evaluation of vertical angle of submerged vanes on hydraulic jump properties, 13<sup>th</sup> Hydraulic Conference, Tabriz, Iran.
- 28- **Ghorbani, B.**, 1394 Assessment of success of executed sprinkler irrigation in Iran, 1<sup>st</sup> Iranian Irrigation and Drainage of National Conference, Mashad, Iran.
- 29- Moghbeli, A., **Ghorbani, B.** and **Gholami, Z.**, 1391 **Application of SWAP** model on water management on farm, 1<sup>st</sup> National Conference of Agriculture, Environment and Food Security, Jiroft, Iran.
- 30- Aminoraya, **Ghorbani, B.**, Paknejad, M. and Nouri, M.R., 1393 Evaluation of Zeolite quantity on Wetting front of drip irrigation, 2<sup>nd</sup> Congress on Desert with management of drought and desert approach, Semnan, Iran.
- 31- Aminoraya, **Ghorbani, B.**, Paknejad, M. and Nouri, M.R., 1393 The effect of hydro-jel A200 on improvement of distribution and retention of moisture in drip irrigation in two soil textures, 2<sup>nd</sup> Congress on Desert with management of drought and desert approach, Semnan, Iran.
- 32- **Ghorbani, B.**, 2016 A view of outstanding historical Persian qanats with an emphasis on Vazvan qanat in Isfahan, First Indian National Groundwater Conference (INGWC-2016) on Sustainable Development and Management of Groundwater Resources in Arid and Semi-arid Regions, Oct. 7, 2016
- 33- **Ghorbani, B.**, 2000 Estimation of mechanical structures capacities to protect soil and water on watersheds, 1<sup>st</sup> National Conference on Water Crisis, Kerman, Iran.
- 34- **Ghorbani, B.**, 2001 Prediction of runoff under travel gun sprinkler irrigation, 1<sup>st</sup> International Conference on Water Crisis, Zabol, Iran.
- 35- Khalil Moghaddam, B., Jalalian, A. and **Ghorbani, B.** 2003 Quantitative analysis of soil erosion and sediment using European Soil Erosion Model in Bazoft River Catchment at Karoon Watershed, 8<sup>th</sup> Iranian Soil Science, Rasht Un., Iran

**36-Khalil Moghaddam, B., Jalalian, A. and Ghorbani, B. 2001 Evaluation of European Soil Erosion Model (EUROSEM) in Bakhtiari Bazoft River Catchment at Karoon Watershed, 7<sup>th</sup> Iranian Soil Science Conference , Sharekord Un., Iran.**

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