

Curriculum Vitae

Personal Data

- First name: Hossein
- Family name: DEHGHANISANIJ
- Date of Birth (Y/M/D): 1967/6/10
- Nationality: Iranian
- Position: Associate Professor, Agricultural Research Education and Extension Organization (AREEO), Agricultural Engineering Research Institute (AERI)
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Education

- Technical affairs for agriculture (1.1986-2.1988), Agricultural collage, Ardabil, Iran.
- B. Sc. (2.1989-1.1991) Irrigation Engineering, Tabriz University, Karaj, Iran.
- M. Sc. (9.1992-2.1996) Irrigation and Drainage Engineering, Esfahan University, Karaj, Iran.
Title of thesis: Evaluation and calibration of sprinklers in model MZ-30 designed and manufactured by Iranian companies.
- Ph.D. (10.2001-9.2004) Bioenvironmental Science, Tottori University, Japan.
Title of thesis: *Influences of Water Quality and Evapotranspiration on the Scheduling of Drip Irrigation.*
- Postdoctoral (11.2005-9.2006) Fellowship of Japan Society for the Promotion of Science in Water Resource Department, Arid Land Research Center, Tottori University, Japan. “*Improvement of drip irrigation scheduling to increase crop water productivity in regarding with yield, evapotranspiration, crop coefficient.*”

Key Qualifications

Irrigation and drainage engineer with over 20 years’ teaching, research and practical experiences on agricultural water management issues. The Special interests are;

- Advance irrigation systems development and management.
- Agricultural water productivity and cropping system in irrigated agriculture for small-holder farmers
- Crop water productivity and irrigation management under different environmental stress; quality and scarcity.
- Agricultural water policies, institutions and laws for sustainable development.
- Water, Energy, Food and Environment Nexus
- Smart Irrigation management

Master and PhD student thesis

1. Effect of field size change, tillage practice and seed type on water use efficiency of wheat, barley and sugar beet plants. 2016. **Tarbiat Modares University**. Student H. Tabatabaei.
2. Evaluation of CSM-CERES-WHEAT Model in Simulation of Wheat Growth in Miandoab and Mahabad Areas. 2016. **Tarbiat Modares University**. Student N. Alikhani
3. Evaluation of the CERES-Barley Model for Simulation in the Miandoab Region. 2016. **Tarbiat Modares University**. Student N. Javadi.
4. Improvement of estimation models of evapotranspiration in spot irrigation systems with continuous flow. 2015. **Bu-Ali Sina university**. Student E. Kanaani
5. Estimation of water returned in different irrigation systems using SWAT model. 2015. Student F. Batoukhteh.
6. Salinity and oxyfertilization management of Pistachio orchards under subsurface drip irrigation. 2013. **Tarbiat Modares University**. Student A. Seifi.
7. Irrigation management and managing soil surface salinity with subsurface drip irrigation. 2013. **Shiraz University**. Student: F. Agabozorgi
8. Study of the Hydraulic Specifications for Medium Size of Sprinklers in Sprinkler Irrigation System. 2012-13. **Shiraz University**. Student Ghaffari
9. Determination of optimum Water depth of Greenhouse Tomato 2012-13. **Shiraz University**. Student: Asnafi.
10. Evaluation of fertigation effect under drip irrigation systems (surface and subsurface) on root development, yield and corn evapotranspiration. 2013. **Mashad University**. Student: S. Esfandiyari.
11. Application of Automation in Water Consumption at Farm, According to Climate Data. 2012. **Gorgan University**. Student: E. Khazaei.
12. The influence of automatic drip irrigation on the yield of apricot, efficiency of irrigation water use as compared to surface irrigation in Karaj. 2011. **Armenian State Agrarian University**. Student E. Abbasi.
13. Comparison of rotator, spray-head and LDN sprinklers in the center pivot irrigation system (case study: Qazvin plain irrigation network. 2011. **Tehran University**. Student: G.R. Hejazi.
14. Estimating reference evapotranspiration using limited weather data different climate conditions. 2010. **Tarbiat Modares University**. Student A. Soltani.
15. Estimation evapotranspiration and crop coefficient of strawberry in greenhouse. 2010. **Tehran University**. Student B. Dastparchin.

16. Energy balance evaluation for estimation of evapotranspiration and its component in surface and subsurface drip irrigation. 2009. **Tehran University**. Student H. Kosari.
17. Evaluation the impact of automated irrigation on yield and water use efficiency of maize (case study: Karaj). 2008. **Mashhad University**. Student M. Mousavi.
18. Evaluation of a drip irrigation system under saline water use and assessment of emitter clogging under acidification and magnetic water management. 2008. Tehran University. Student k. Ahmedaali.
19. Evaluation of uniformity distribution under sprinkler irrigation system by soil moisture measurement and comparison with catch can method. 2006 Tehran University. Student: A. Amiri.
20. Evaluation of pulley irrigation system performance. 2001. Tarbiat Modares University. Student H Seyyed Mohammadi.

Refereed Publications

Books

1. Dehghani Sanij H., Jamshidi B., Mostofi M., Zarei Q., Jolkhani M. 2020. Internet of Things and Intelligent Agriculture. Agricultural Research, Education and Extension Organization. In writing. (In Farsi)
2. Dehghani Sanij H. 2020. Subterranean drip irrigation. Agricultural Education and Extension Research Organization. In writing. (In Farsi)
3. Dehghani Sanij H. 2020. Management of operation and maintenance of Pivot and Linir Center machines. National Irrigation and Drainage Association of Iran. In writing. (In Farsi)
4. Dehghani Sanij H. 2020. Application of modern irrigation systems in saline and alkaline conditions. National Irrigation and Drainage Association of Iran. In writing. (In Farsi)
5. El-Atfy H., Ragab R., Dehghanisanij H. 2017. Chapter of book: Irrigated Agriculture Development under Drought and Water Scarcity.
6. Heydari N., **Dehghanisanij H.**, Alaei Tafti M. 2016. Management of demand and consumption of agricultural water in Iran. Iranian National Committee on Irrigation and Drainage (IRNCID). 292 pp. ISBN: 978-964-6668-99-7. (In Farsi)
7. Dehghani Sanij H., Ghahraman B. 2013. Compatibility with water crisis. Initial edit.
8. Dehghanisanij H. and Kosari H. 2016. Soil evaporation from drip irrigated mazed field. In: Megh R. Goyal. 2015. Waste water management for irrigation: principles and practices. 474pp. ISBN. 978177188203. CRC Press .
9. Vaziri J., Mashi Bouani A., Motevaseli M.R., **Dehghanisanij H.**, Keshavarz A., Malek Zareh S., Rostaei M. 2015. Climate change, water and food security. Iranian National Committee on Irrigation and Drainage (IRNCID). (Translated to Farsi).
10. **Dehghanisanij H.**, Sohrab F., Keshavarz A. 2013. Virtual Water Trade. ISBN: 978-600-92430-6-8. (In Farsi). (Translated to Farsi).
11. Heydari N., **Dehghanisanij H.**, Alaei M., 2013. Agricultural water use efficiency improvement in Iran. In press. (In Farsi)
12. **Dehghanisanij H.** 2012. Proceeding of full papers of the 4th National Seminar on Sustainable development of Pressurizes Irrigation Methods. Agricultural Engineering Research Institute. 467pp. ISBN: 978-600-6364-12-4. (In Farsi)
13. **Dehghanisanij H.**, 2012. Proceeding of abstract papers of the 4th National Seminar on Sustainable envelopment of Pressurizes Irrigation Methods. Agricultural Engineering Research Institute. 50pp. ISBN: 978-600-6364-11-8. (In Farsi)
14. **Dehghanisanij H.**, Kosari H. 2011. "Evapotranspiration partitioning in sub-surface drip irrigation system" In: Evaporation/Book2, ISBN 978-953-307-512-9.
15. Heydari N., Naseri A., Vaziri J., **Dehghanisanij H.** 2010. Water saving in agriculture. 168pp. ISBN: 978-964-6668-81-2. Iranian National Committee on Irrigation and Drainage (IRNCID). (Translated to Farsi)
16. Vaziri J., Salamat A., Entesari M., Maschi M., Heydari N. **Dehghanisanij H.** 2008. Crop evapotranspiration: Guidelines for co.putting crop water requirement. 355pp. ISBN: 978-964-6668-96-0. Iranian National Committee on Irrigation and Drainage (IRNCID). (Translated to Farsi)
17. Alizadeh A., Kamali G. Keshavarz A., **Dehghanisanij H.** 2007. Crop water requirements in Iran. 228pp. Mashhad University. Mashhad. Iran. (In Farsi)
18. Entesari M., Heydari N., Kheirabi J., Alaei M., Garshi A., Vaziri J., **Dehghanisanij H.** 2007. Water use efficiency in greenhouse production. 180pp. ISBN: 978-964-6668-74-7. Iranian National Committee on Irrigation and Drainage (IRNCID). (Translated to Farsi)
19. Aghaee A. Ebrahimi B., Kheyabani H., Abdmishani S., **Dehghanisanij H.** 2006. Soil salinity assessment. 258pp. 168pp. ISBN: 964-6668-51-8. Iranian National Committee on Irrigation and Drainage (IRNCID). (Translated to Farsi)
20. Zarei G. Gorji A., **Dehghanisanij H.** 2009. Drip irrigation in humid environment. 80 pp. ISBN: 978-964-6668-81-2. Iranian National Committee on Irrigation and Drainage (IRNCID). (Translated to Farsi)
21. Keshavarz A., Alizadeh A., Dehghanisanij, H. 1999. National Documentary of Crop Water Requirement in Iran, 28 volumes. Ministry of Agriculture. (In farsi)

International reports

1. Keshavarz A., **Dehghanisanij H.**, Ahmed, M.A., Oweis, T., 2012. Assessing policies and institutional arrangements in Karkheh River Basin. ICARDA. CGIAR, CPWP Program. Report No. 10. 92 pp. ISBN: 92-9127-272-8.
2. Moayeri M., **Dehghanisanij H.**, Nato A. F., Siadat H., Abbasi F. and Oweis T. 2012 Assessment and Improvement of Wheat and Maize Water Productivity in Lower Karkheh River Basin. ICARDA. CGIAR, CPWP Program. Report No 9. 105pp. ISBN. 92-9127-274-4.

3. **Dehghanisani H.**, Moayeri M. 2008. Overview of crop water productivity in irrigated agriculture in lower KRB. In: A compendium of review paper, ICARDA, Aleppo, Syria, 43-56.

Journal papers

1. **Dehghanisani H.**, Kanani E., Akhavan S. 2020. Evapotranspiration and components of corn (*Zea mays L.*) under micro irrigation systems in a semi-arid environment Spanish Journal of Agricultural Research. 18 (2), e1202. <https://doi.org/10.5424/sjar/2020182-15647>.
2. Mirzaie-Nodoushan F., Morid S., **Dehghanisani H.** 2020. Reducing water footprints through healthy and reasonable changes in diet and imported products. Sustainable Production and Consumption. 23: 30-41.
3. Yari, R., Darzi-Naftchali, A., **Dehghanisani, H.** and Qi, Z., 2020. Effect of meteorological data quality control and data adjustment on the reference evapotranspiration: a case study in Jafariye, Iran. Theoretical and Applied Climatology.
4. **Dehghanisani H.**, Kouhi N. 2020. Interactive effects of nitrogen and drip irrigation rates on corn (*Zea mays L.* CV. Single cross 704) root development and residual soil moisture. Gesunde Pflanzen. In Edition.
5. **Dehghanisani H.**, Akhavan S., Kanani E. 2020. Variation of actual corn (*Zea mays L.*) evapotranspiration, single and dual crop coefficient under different point source irrigation systems in semiarid region. Agricultural water management. Under review.
6. **Dehghanisani H.**, Haji Agha Bozorgi H., Ghaemi A.A., Kanani E. 2020. Effect of leaching management on moisture, salinity and SAR distribution under subsurface drip irrigation system in pistachio orchard. Plant, Soil and Environment. Under review.
7. Kouhi N., **Dehghanisani H.**, Alizadeh a., Kanani E. 2020. Interaction of irrigation regimes and nitrogen fertilizer on soil moisture variation and grain yield under type drip irrigation system. Iranian Journal of Water and Soil. 34(3). (In Farsi)
8. Cheraghi S.A.M., **Dehghani Sanij H.**, Enayati K., Shajari Sh. 2020. The long term impact of drip irrigation on soil salinity Case Study: Pistachio orchards in Sarvestan plain. Iranian Journal of Irrigation and Drainage. 14 (1): 24-38. (In Farsi)
9. Aliabadi B.T., Hassandokht M.R., Etesami H., Alikhani H.A., **Dehghanisani H.** 2019. Effect of Mulching on Some Characteristics of Tomato (*Lycopersicon esculentum Mill.*) under Deficit Irrigation. Journal of Agricultural Science & Technology, 21(4): 927-941.
10. **Dehghanisani H.**, Haji Agha Bozorgi H., Kanani E. 2020. Application of Hydrus-2D Model to Investigate the Soil Moisture Changes under Different Irrigation regimes of pistachio trees in Subsurface Drip Irrigation. Iranian Journal of Irrigation and Drainage. 13 (6): 1538-1549. (In Farsi).
11. Kouhi N., **Dehghanisani H.**, Taqhavi H., Kanaani E. 2020. Investigating Changes in Yield and Water Productivity in Different Maize Hybrids (KSC 704 and KSC 410) Under Irrigation Management Using Strip Drip and Furrow Irrigation Methods. Iranian Journal of Irrigation and Drainage. In Edition.. (In Farsi)
12. **Dehghanisani H.**, Ebrahimi M., Reza verdinejad V., Taghizade ghassab A. 2020. Impact of changing irrigation method and planting spacing on water productivity, yield and application efficiency of sugar beet in Miandoab plain. Iranian Journal of Soil and Water Research. In edition. (In Farsi)
13. Farzam Nia M., Miranzadeh M., **Dehghani Sanij H.** 2019. Technical Evaluation of Subsurface Drip Irrigation System Hydraulic and Influence of Its Efficiency on Olive Growth Parameters under Field. Irrigation Regimes under Subsurface Drip Irrigation System on Soil Moisture Distribution in Pistachio Orchard. Iranian Journal of Water and Soil. 33(4); 549-564. (In Farsi)
14. **Dehghanisani H.**, Haji Agha Bozorgi H., Ghaemi A. A. 2019. The Effect of Different Irrigation Regimes under Subsurface Drip Irrigation System on Soil Moisture Distribution in Pistachio Orchard. Iranian Journal of Water and Soil. 33(3): 391-404. (In Farsi)
15. Akhavan S., Kanani E., Dehghanisani H. 2019. Assessment of different reference evapotranspiration models to estimate the actual evapotranspiration of corn (*Zea mays L.*) in a semiarid region (case study, Karaj, Iran). Theoretical and Applied Climatology. 137:1403–1419. <https://link.springer.com/article/10.1007%2Fs00704-018-2634-y>
16. **Dehghanisani, H.**, Kanani, E., Akhavan, s. 2018. Evaluation of Corn Evapotranspiration and its Components and Relationship between Leaf Area Index and Components in Surface and Subsurface Drip Irrigation Systems. Iranian Journal of Water and Soil. 31 (6): 1549-1560. (In Farsi)
17. **Dehghanisani H.**, Haji Agha Bozorgi H., Ghaemi A.A., Noushadi M. 2018. Effect Leaching Management on the Salinity Changes in the Drip Irrigation System (A Case Study: Semnan). Iranian Journal of Water and Soil. 32 (5); 879-890. (In Farsi)
18. **Dehghanisani H.**, Haji Agha Bozorgi H., Ghaemi A.A. 2018. Impact of irrigation regimes on salinity pattern in soil under subsurface drip irrigation. Iranian Journal of Water and Irrigation Management. 8 (1): 13-25. (In Farsi)
19. **Dehghanisani H.**, Haji Agha Bozorgi H., Ghaemi A.A., Noushadi M. 2019. Salt accumulation in the soil under a subsurface drip irrigation system. Iranian Journal of Soil and Water Research. 5 (2): 339-351. (In Farsi)
20. **Dehghanisani H.**, Nakhjavani Moghadam M.M., farzamia M., Dehghanian, E. 2019. Efficiency and Performance of Stable Classic Sprinkler Irrigation in Farms (Case Study: Isfahan and Fars Provinces). Iranian Journal of Irrigation and Drainage. 13 (3): 603-613. (In Farsi).
21. Bayat M.H., MirLatifi S.M., **Dehghanisani H.** 2018. Determination of Actual Evapotranspiration, Crop Coefficients and Water Use Efficiency of Garlic in Azarshahr Region. Iranian Journal of Irrigation and Drainage. 12 (5): 1129-1139. (In Farsi).

22. Ashraf B., Alizadeh A., Mousavi-Baygi M., Bannayan M., JabbariNoghabi M., **Dehghanisanij H.** 2017. Quantifying Stress of Human Activities on Availability of Groundwater Resources of Karkheh River Basin. *Iranian Journal of Irrigation and Drainage*. 12 (1): 13-24. (In Farsi)
23. Ghadami Firouzabadi A., Nosrati A. E., **Dehghanisanij H.**, Jafari A.M., Bahramloo R. 2018. Technical and Economical Comparison of Two Irrigation Systems, Tape and Furrow Irrigation and Different Levels of Nitrogen on Yield, Water use Efficiency of Garlic Product. *Iranian Journal of Irrigation and Drainage*. 12 (2): 283-292. (In Farsi)
24. Cheragh mohammadi S.A.M., **Dehghanisanij H.** 2018. Drip Irrigation under Saline Water Use. *Journal of Water Management in Agriculture*. 4 (1): 1-8 (In Farsi)
25. Seyedan S.M., Ghadami Firouzabadi A., **Dehghanisanij H.** 2018. Investigation of Affecting Factors on Water Productivity Improvement of Crop Products in Hamadan Province. *Iranian Journal of Irrigation and Drainage*. 12 (4): 775-787. (In Farsi)
26. Tabatabaei S.H., Mirlatifi S.M., **Dehghanisanij H.** 2018. Effects of Changing Border Dimensions, Fertilizer Application Program and Using the Winnowed Seeds on Water Use Efficiency in Barley Fields in Miandoab Region. *Iranian Journal of Irrigation and Drainage*. 12 (3): 536-544 (In Farsi)
27. Salamati N., **Dehghanisanij H.**, Darabi A.S., Behbahani L. 2018. The effects of surface and subsurface drip methods on quantitative and qualitative yield of Zahedi date cultivar r. *Journal of Water and Soil Conservation*. 25 (3): 225-240 (In Farsi)
28. Dehghanianian S.E., **Dehghanisanij H.**, Nakhjavanimoghaddam M.M. 2017. Improvement of Solid Set Sprinkler Irrigation System Performance in Fars Province. *Water Management in Agriculture*. 4 (2): 37-44.
29. **Dehghanisanisanij H.**, Salamati N. 2017. Palm Response to the Implementation of Surface and Subsurface Drip Irrigation System. *Iranian Journal of Soil and Water Research*. 49(5); 991-1001. (In Farsi)
30. Kouhi N., **Dehghanisanij H.** 2017. Simulation of leaf area index for corn(S C 704) in droght stress conditions. 31 (3): 483-491. (In Farsi)
31. Salamati N., **Dehghanisanij H.**, Darabi A, S. 2017. Investigating of different levels of subsurface drip irrigation on quantitative and qualitative yield of two palm types. *Journal of water research in agriculture*. 31 (3): 315-328. (In Farsi)
32. Batoukhteh F., Misaghi F., **Dehghanisanij H.** 2017. The evaluation of effect of increase irrigation efficiency along with increased acreage on the return water and underground water storage using SWAT model. *Iranian Journal of Water and Soil Conservation*. 6 (2): 1-13. (In Farsi).
33. **Dehghanisanij H.**, Nakhjivani Moghadam M.M., Ghahreman B. 2017. Scheduling Single Irrigation for Rainfed Wheat Using Crop Water Stress Index (Case study: the upper part of the Karkheh basin). *Iranian Journal of Irrigation and Drainage*. 4 (11): 552-561. (In Farsi).
34. Zahedpour yeganeh H., Rezaardinejad V., **Dehghanisanj H.** 2017. Evaluation of application efficiency and productivity of surface irrigation systems in Nazlochai, Urmia Plain farms. *Iranian Journal of water research in agriculture*. 31 (4): 685-698. (In Farsi)
35. Rezvani S.M., **Dehghanisanij H.**, Bayat F., Zare Abyaneh H. 2017. Determination of Depth and Frequency of Irrigation of Greenhouse Tomato. *Iranian Journal of Irrigation and Drainage*. 6 (10): 770-785. (In Farsi)
36. **Dehghanisanij, H.**, Kanani, E., Hamami, M. 2016. Application of Subsurface Drip Irrigation System and Management Parameters in Corn Production. *Iranian Journal of Water Management in Agriculture*. 3 (2); pp 39. (In Farsi)
37. Salamati N., **Dehghanisanij H.** 2016. The effect of different amounts of subsurface drip irrigation on yield and quality of two varieties of palm Kabkab and Zahedi. *Iranian Journal of Soil and Water Research*. 48 (3): 543-554. (In Farsi)
38. Seifi A., Mirlatifi S.M., **Dehghanisanij H.** 2016. Field Evaluation of SALTMED Model for Simulating Distribution and Dynamics of Soil Water and Salt Content under Subsurface Drip Irrigation iPistachio Orchards. *Iranian Journal of Irrigation and Drainage*. 5 (10): 594-612. (In Farsi)
39. Nakhjavanimoghaddam M.M., Ghahreman B., Davary K., Alizadeh A., **Dehghanisanij H.**, Tavakoil A.R. 2016. Improvement rainfall productivity for rainfed wheat under superior agricultural management and irrigation limited at the upper hand of the Karkhe Basin. *Iranian Journal of Water Research in Agriculture*. 3 (30): 301-315. (In Farsi)
40. Nakhjavanimoghaddam M.M., Ghahraman B., Davary K., Alizadeh A., Dehghanisanij H., Tavakoli A.R. 2016. Simulation of Wheat Yield under Rainfed and Supplemental Irrigation and Presentation of Superior Management Scenarios in Upper Karkheh Basin. *Iranian Journal of Irrigation and Drainage*. 4 (10): 466-478. (In Farsi)
41. Ramezan D., Hassanpour Asil M., Salehi R., **Dehghanisanij H.** 2015. Investigation of the content of mineral elements of leaf and root of transgenic and non-linked plants Jalali yellow melon under drought stress in drip irrigation system. *Iranian Journal of Agricultural crop management*. 18 (2): 415-430. (In Farsi)
42. Ramezan D., Hassanpour Asil M., Salehi R., **Dehghanisanij H.** 2015. The effect of different levels of irrigation on growth, yield, fruit quality and water use efficiency of grafted and ungrafted melon (*Cucumis melo* l. Zarde Jalali) under drip irrigation system. *Iranian Journal of Horticultural Science*. 3 (47): 421-434. (In Farsi)
43. Zounemat Kermani M., Asadi R., **Dehghanisanij H.** 2015. Effect of different amounts of urban wastewater on cotton yield with drip irrigation. *Iranian Journal of Water Research in Agriculture*. 1 (29): 63-73. (In Farsi)
44. ghadami Ferozabadi A., **Dehghanisanij H.**, Khoshravesh M., Seyedan S.M. 2015. Investigation of energy and water consumption efficiency at gas-pumping stations. *Iranian Journal of Water Research in Agriculture*. 3 (29): 367-377. (In Farsi)

45. Shahrokhnia M. A., Zare E., **Dehghani Sanij H.** 2015. Comparison of Different Drip Irrigation Scheduling Tools for Citrus Trees in Fine and Medium Texture Soils. *Iranian Journal of Irrigation and Drainage*. 3 (9): 448-454. (In Farsi)
46. Aflatonni M., Eskandri L., Dehghanisanij H. 2015. Calibration and sensitivity analysis of hydraulic water behavior in simulation of drainage in Ghazvin plain. *Iranian Journal of Iran Water and Soil Research*. 3 (45): 283-291. (In Farsi)
47. Akbari M., Dehghanisanij H., Droogers P. 2014. Spatial Analysis of Groundwater Trend in Zayandeh Rud Basin, Iran. *Journal of Agriculture, Biotechnology & Ecology*. 7 (1): 81-94.
48. Seifi A., Mirlatifi S.M., **Dehghanisanij H.**, Torabi M. 2014. The Impact of Irrigation Frequency on Moisture and Salinity distributions under Subsurface Drip Irrigation (SDI) of Pistachio Orchards. *Iranian Journal of Irrigation and Drainage*. 4 (8): 786-799. (In Farsi)
49. Dehghanisanij H., Zounemat-Kermani M., Asadi R. 2014. Application of Municipal Wastewater in Irrigation of Corn under Furrow and Drip Irrigation Systems. *Iranian Journal of Irrigation and Drainage*. 3 (8): 423-429. (In Farsi)
50. Dehghanisanij H., Khazaei E., Zakerinia M. 2014. The Role of Precision Irrigation on Water use and Water use Efficiency. *Iranian Journal of Irrigation and Water Management*. 1(8): 180-186. (In Farsi).
51. Akbari, M., **Dehghanisanij, H** and Droogers, P. 2014. Spatial analysis of groundwater trend in Zayandeh Rud Basin, Iran. *Agriculture, Biotechnology & Ecology*. Pp: 81-94.
52. Seifi A., Mirlatifi S.M., **Dehghanisanij H.**, Torabi M. 2013. Determination of water stress index for pistachio trees under subsurface drip irrigation method using temperature difference between plant corona and air. *Iranian Journal of Irrigation and Water Management*. 1 (3): 123-136. (In Farsi).
53. Abbasi E, **Dehghanisanij H.** 2013. Precision irrigation and its impact on water use efficiency of apricot orchards. *Iranian Journal of Water Research in Agriculture*. 27 (1); 41-51. (In Farsi).
54. Zamanian M., Fattahi R., Dehghani Sanij H. 2013. Evaluation of performance and study of problems of micro-irrigation systems in different parts of Iran. *Iranian Journal of Irrigation and Drainage*. 7 (3).
55. Khazaei E., Zakerinia M., **Dehghanisanij H.**, Hezarjeribi A. and Hesam M. 2013. Application of online meteorological station in farm for calculating maize real-time water requirement and its effect on increasing water use efficiency in Saveh city region. *Iranian Journal of Water and Soil Conservation*. 20 (2); 143-159. (In Farsi).
56. Keshavarz A., **Dehghanisanij H.**, 2012. Water productivity index and solutions for future agriculture activities in Iran. *Economic Strategy Journal*. 1 (1):199-233. (In Farsi)
57. Moayeri M., Pazira E., Siadat H., Abbasi F., **Dehghanisanij H.** 2013. Assessment of Agricultural Water Productivity for Maize in Evan Plain (Case Study in Sought Karkheh River Basin). *Iranian Journal of Water and Soil* 26 (6):1339-1348. (In Farsi).
58. Karimi Goghari Sh., Dehghanisanij H., Asadi R. 2013. The effect of different levels of irrigation on yield, yield components and water consumption efficiency of corn grain cultivars in Arzuieh region. *Iranian Journal of Irrigation and Drainage*. 7 (4).
59. Sarabadani Tafreshi R., Bihanta M., Sadat Sheber Z., Shahbazi M., Karami A., Naqavi M., Nikkhah H., Dehghani Sanij H. 2013. The effect of drought stress at season leate on yield and some physiological characteristics of multi-digit and barley line. *Journal of Water Research in Agriculture*. 27 (4):535-549.
60. **Dehghanisanij H.** 2012. Current agricultural water and soil resources and productivity in the Iranian highlands: measures and Improvements. *Journal of Agriculture, Biotechnology & Ecology*. 5 (1): 1-14.
61. Esfandiyari S., **Dehghanisanij H.**, Alizadeh A., Davary K., 2012. Evaluation of Maize Root Morphology under Fertigation Method with Surface and Subsurface Drip Irrigation Systems. *Iranian Journal of Water and Soil* 26 (5): 1064-1071. (In Farsi).
62. Aazami A., Zarafshani K., **Dehghanisanij H.**, Gorji A. 2012. Determining Factors Influencing The Attitude of Farmers Toward Sprinkler Systems in Kermanshah Province. *Iranian Journal of Water and Soil*. 26 (4): 886-896. (In Farsi).
63. Soltani A., Mirlatifi S.M., **Dehghanisanij H.** 2012. Estimating Reference Evapotranspiration Using Limited Weather Data under Different Climatic Conditions. *Iranian Journal of Water and Soil*. 26 (1): 139-149. (In Farsi).
64. Kohi Chelekeran N., **Dehghanisanij H.**, Asadi R. 2012. Improvement of water use efficiency of drip irrigated corn in arid region. *Iranian journal of Irrigation and drainage*. 6 (2): 77-85. (In Farsi).
65. Heydari N., Dehghani Sanij H. 2012. Investigating and prioritizing socio-economic issues and challenges and policy-making facing the sustainable development of pressurized irrigation methods in Iran. *Iranian Journal of Irrigation and Drainage*, 6 (3): 175-163.
66. **Dehghanisanij H.** 2012. Maize yield and water use efficiency under sprinkle irrigation with different levels of salinity. *Iranian journal of Irrigation and drainage*. 6 (1): 46-54. (In Farsi).
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International

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15. Kosari H., **Dehghanisanij H.**, Mirzaei F., Liaghat M. 2011. Soil evaporation in surface and subsurface drip irrigation in a maize field. The 8th international Micro irrigation Congress. 15-23 oct. Tehran. Iran.
16. Janani A., Sohrabi T., **Dehghanisanij H.** 2011. Pressure variation impact on discharge characteristics of porous pipes. The 8th international Micro irrigation Congress. 15-23 oct. Tehran. Iran.
17. Akbari M., **Dehghanisanij H.**, Sadre Ghaen H., Nakhjavani MM. 2011. Field scale scenarios for improved water and land productivity by simulation modeling. The 8th international Micro irrigation Congress. 15-23 oct. Tehran. Iran.
18. **Dehghanisanij H.**, Akbari M. Micro irrigation in Iran-current statues and future needs. The 8th international Micro irrigation Congress. 15-23 oct.
19. Eslami A., **Dehghanisanij H.** 2011. Application of brackish water in subsurface drip irrigation system on pistachio orchards. The 8th international Micro irrigation Congress. 15-23 oct. Tehran. Iran.
20. Heydari N., **Dehghanisanij H.** 2011. Socio-Economic and policy-institution issues and chalenges in sustainable development of pressurized irrigation systems inIran. The 8th international Micro irrigation Congress. 15-23 oct. Tehran. Iran.
21. Akbari M., **Dehghanisanij H.** 2010. The role of modeling in integrated water management (A case study in Zayandeh Rud Basin). 4th international conference on water resources and arid environments (ICWRAE). 5-8 December. Riyadh, Saudi Arabia.
22. Akbari M., **Dehghanisanij H.** 2010. Impact of irrigation scheduling on water productivity using SWAP and AquaCrop simulation models. Improving farm management strategies through AquaCrop: Worldwide collection of case studies. 8-9 October. Yogyakarta, Indonesia.
23. Keshavarz A., **Dehghanisanij H.** 2008. Assessing policies and institutional arrangement in KRB. 2nd Int. Forum on Water and Food. Nov 10-14. Addis Ababa-Ethiopia.
24. Moayeri M. **Dehghanisanij H.**, Nato A.F., Siadat H., Oweis T., Farahani H. 2008. Increasing field water productivity of irrigated crops in the lower KRB. 2nd Int. Forum on Water and Food. Nov 10-14. Addis Ababa-Ethiopia.
25. **Dehghanisanij H.**, Keshavarz A. 2008. Study the impact of climate change on agricultural production in Iran. 9th Int. Conf. on Dryland Development. Nov. 7-10. Alexandria, Egypt.
26. **Dehghanisanij H.**, Akbari M. 2008. Importance of daily climate information on improvement of crop water productivity in arid and semiarid regions. 9th Int. Conf. on Dryland Development. Nov. 7-10. Alexandria, Egypt.
27. Akbari M., **Dehghanisanij H.** 2008. Management of drought and water scarcity in Zayandeh Rud basin, Iran. 9th Int. Conf. on Dryland Development. Nov. 7-10. Alexandria, Egypt.
28. Moayeri M., **Dehghanisanij H.** 2007. Assessment of wheat water productivity and methods of improvement in South Karkheh River Basin. Int. Workshop on Improving WP and livelihood resilience in KRB. Sep 10-11. Karaj. Iran.
29. Moayeri M., **Dehghanisanij H.** 2007. Assessment of the causes of low water productivity and ways of improvement in irrigated maize areas of South Karkheh River Basin. Int. Workshop on Improving WP and livelihood resilience in KRB. Sep 10-11. Karaj. Iran.

30. **Dehghanisanij H.**, Sadrghaen H., Yamamoto T. 2006. Improvement in safe use of low quality water in drip irrigation systems. International Symposium on Drylands Ecology and Human Security (ISDEHS 2006). 4-7 December. United Arab Emirates.
31. **Dehghanisanij, H.**, Naseri A. 2006. Improvement in of drip irrigation management on cherry trees. 7th International Microirrigation Congresses 10-16 September, Kuala Lumpur, Malaysia.
32. **Dehghanisanij, H.**, Moghaddam M. N., Anyoji H. 2006. Crop water productivity a strategy for sustainable development in dry lands. Eighth International Conference on Dryland Development 25-28 February, Beijing, China
33. **Dehghanisanij, H.**, Keshavarz A. Heydari N. 2006. Agricultural water consumption management in Iran considering aridity and drought Incidences. Eighth International Conference on Dryland Development 25-28 February, Beijing, China.
34. Zeggaf T.A., Anyoji H., Yasuda H. **Dehghanisanij H.** 2006. Estimation of evapotranspiration from maize combining sap flow and weighing lysimeter data. Eighth International Conference on Dryland Development 25-28 February, Beijing, China.
35. **Dehghanisanij H.**, Naseri A., Samar M. 2005. Assessment of cherry trees issues in Moghan agro-industry with respect of soil and water management. International Agricultural Engineering Conference, Bangkok, Thailand. 6-9 Dec.
36. Akbari M., **Dehghanisanij H.** 2005. Assessment of deficit irrigation on sugar beet water productivity. International Agricultural Engineering Conference, Bangkok, Thailand. 6-9 Dec.
37. Akbari M., **Dehghanisanij H.** 2005. Effect of deficit irrigation on sugar beet under furrow irrigation method. The 2nd International Conference on Integrated Approaches to Sustain and Improve Plant Production Under Drought Stress. Sep 24-28. Rome, Italy.
38. Yamamoto T., Ould Ahmed B.A., Koiwasaki M., **Dehghanisanij H.** 2005. Prevention biochemical clogging of filters and emitters in microirrigation systems. ASAE Annual meeting, Tampa, Florida, July 17-20.
39. **Dehghanisanij, H.**, Yamamoto, T., Keshavarz, A., Miyamoto, K., and Fujiyama, H. 2004. Control of emitter clogging in drip irrigation system induced by biological agents. Land and Water Management, Decision Tools and Practices. Proceeding of the 7th Inter Regional Conference of Environment and Water. October 11-14, Beijing. Vol2:1139-1148. China agricultural press.
40. Sadrghaen S.H. and **Dehghanisanij, H.** 2004. Water use productivity of pepper under three microirrigation systems. Land and Water Management, Decision Tools and Practices. Proceeding of the 7th Inter Regional Conference of Environment and Water. October 11-14, Beijing. Vol2:1139-1148. China agricultural press.
41. **Dehghanisanij, H.**, Yamamoto, T., Agassi, M., and Inoue, M. 2004. Interaction of soil water content and soil solute salinity under drip irrigation in dune field. ASAE Annual meeting, Ottawa, Canada, August 1-4.
42. Ould Ahmeh, B.A., Yamamoto, T., **Dehghanisanij, H.**, Inoue M., and Sakaguchi, Y. 2004. Effects of drip irrigated saline water on the growth of sorghum in a dune sand soil. Proceedings of the Japanese Society of Irrigation, Drainage and Reclamation Engineering, Hokkaido, Sapporo, Japan, CD. Sep 7-10.
43. **Dehghanisanij, H.**, Yamamoto, T., and Inoue, M. 2003. Assessing TDR method for simultaneous monitoring of water and solute in dune soil. Proceedings of the Challenge in soil physics, Japanese Society of Soil Physics, November 23, pp.18-19.
44. **Dehghanisanij, H.**, Yamamoto, T., and Inoue, M. 2003. Assessment of water and solute movement in dune-sand under drip irrigation. Proceedings of the Japanese Society of Irrigation, Drainage and Reclamation Engineering, Okinawa prefecture, Japan, July 8-10, pp.678-679.
45. **Dehghanisanij, H.**, Yamamoto, T., and Inoue, M. 2003. Control of clogging in microirrigation using wastewater in Tohaku, Japan. ASAE Annual meeting, Las Vegas, Nevada, USA, July 27-30.
46. Yamamoto, T. Amu-Mensah, F., Fujimaki, H., and **Dehghanisanij, H.** 2003. Water saving in Tank irrigation systems in Sahel region of Africa. ASAE Annual meeting, Las Vegas, Nevada, USA, USA, July 27-30.
47. **Dehghanisanij, H.**, Yamamoto, T., and Farzaneh, E. 2002. Development of modern irrigation system in arid and semi-arid area. Proceedings of the Japanese Society of Irrigation, Drainage and Reclamation Engineering, Mie prefecture, Tsu-shi, Japan, August 6-8, pp.508-509.
48. **Dehghanisanij, H.**, Taherpour, M. and Yamamoto, T. 2002. Evaluation of field performance index on microirrigation systems with long operation period in arid and semi-arid area. Proceeding of the Agricultural Engineering Conference (AGENG), Charles Sturt Uni., NSW, Australia.
49. **Dehghanisanij, H.**, Yamamoto, T. 2001. An overview of agricultural in Iran- crop and water, Sand Dune Research (V), Natural and Agriculture in Arid Asian Nations, Tottori, Japan, pp.17-21.
50. **Dehghanisanij, H.**, Keshavarz, A., and Yamamoto, T. 2001. Estimation of evapotranspiration and improvement of water use pattern in Iran. Proceedings of the Japanese Society of Irrigation, Drainage and Reclamation Engineering, Iwate prefecture, Morioka, Japan, July 27-30, pp.562-563.
51. **Dehghanisanij, H.**, Mirlatifi. M., Torabi, M. 2000. Effect of water quality and irrigation management on emitter clogging in trickle irrigation in southeast of Iran. Proceeding of the International Conference Micro and Sprinkler Irrigation System, 8-10 Feb, Jalgaon-India, pp:537-545.
52. Alizadeh, A., **Dehghanisanij, H.**, Baghani, J., and Haghania, G.H. 2000. Yield and quality of tomato in drip and furrow systems with different level of water deficits. Proceeding of the 6th International Microirrigation congress, South Africa.
53. **Dehghanisanij, H.**, Keshavarz, A., and Alizadeh, A. 1999. Implementation of water use pattern in terms of volumetric supply of water to farmers. Proceeding of the International Conference on Water Resources Management, Use and Policy in Dry Areas. Amman, Jordan. Dec. 1-3.

Work Experience

2007.7- 2013 Head of Irrigation and Drainage Department, Agricultural Engineering Researcher Institute (IAERI), Karaj, Iran and project leader.

2006-2007.7	Scientific Board Member and Project Leader, Agricultural Engineering Researcher Institute (IAERI), in Head of Irrigation and Drainage Department.
2004-2005	Deputy of Irrigation and Drainage Department, Agricultural Engineering Researcher Institute (IAERI), Karaj, Iran and project leader.
2000-2001	Head of Irrigation and Drainage Department, Agricultural Engineering Researcher Institute (IAERI), Karaj, Iran and project leader.
1997-2000	Deputy of Head of Irrigation and Drainage Department, Agricultural Engineering Researcher Institute (IAERI), Karaj, Iran and project leader.
1994-1997	Project leader, Agricultural Engineering Researcher Institute (IAERI), Karaj, Iran.

Research projects (approved by AREEO, Agricultural Research Education and Extension Organization)

International

1. Policy and institutional arrangements for the promotion of agricultural water productivity in KRB. 2005-2009. In cooperative with International Center for Agricultural Research in the Dry Areas (ICARDA).
2. Assessment and improvement of agricultural water productivity in lower part of Karkheh River Basin in Iran. 2005-2009. In cooperative with International Center for Agricultural Research in the Dry Areas (ICARDA), International Water Management Institute (IWMI) and UC Davis University.

National (leaders, co-worker, consulter),*

1. 2012-2015 Study of subsurface pot irrigation to define capability of the different systems in Kerman, Semnan and Markazi
2. 2012-2013 Technical evaluation classical fixed sprinkler irrigation systems on farms
3. 2012-2013 Determine the allowable limit of sodium and chlorine in sprinkler irrigation (Case study on tw0 major crops in Kerman Province)
4. 2012-2013 Determine the limit of the elements in irrigation water to prevent clogging of emitters conventional chemical in Rafsanjan area
5. 2012-2013 Evaluation of sub-surface drip irrigation systems in pistachio orchards in Kerman province and study of proper depth and distance for the emitters
6. 2014-2014 Study of subsurface drip irrigation to define design, installation and management criteria and evaluaiton in Semnan
7. 2012-2014 Evaluation of sub-surface drip irrigation systems in pistachio orchards in Kerman province
8. 2012-2014 Study on possibility of subsurface drip irrigation use for citrus and peach trees and root trees gathering around the drippers
9. 2012-2014 Study of Treflan management on grapevine root clogging in subsurface drip irrigation
10. 2012-2014 Study of subsurface drip irrigation to define design, installation and management criteria
11. 2012-2014 Study of possibility for applying subsurface drip irrigation in date-palm trees in arid and semiarid regions
12. 2011-2012 Study of agricultural water use efficiency in different irrigation systems and agricultural plains based on farming evaluation and remote sensing system and measures for improvement.
13. 2010-2012 Study the energy consumption in advance irrigation systems: case study Khorasan and Hamedan
14. 2010-2011 Study of energy balance for estimation of maize evapotranspiration in a surface and subsurface drip irrigation system.
15. 2008-2009 Study Nation Strategic Plan for sustainable development of pressurized irrigation systems in Iran.
16. 2008-2009 Preparation and development of an strategic research plan for sustainable development of pressurized irrigation systems in Iran considering Socio-economic & Policy and Institutions issues
17. 2008-2009 Preparation and development of an strategic research plan for sustainable development of pressurized irrigation systems in Iran considering Technical issues
18. 2008-2009 Preparation and development of an strategic research plan for sustainable development of pressurized irrigation systems in Iran considering Identify, harmony and technology transfer issues.
19. 2008-2009 Preparation and development of an strategic research plan for sustainable development of pressurized irrigation systems in Iran considering Resources and Infrastructures
20. 2008-2009 Preparation and development of an strategic research plan for sustainable development of pressurized irrigation systems in Iran
21. 2008-2009 Preparation and development of an strategic research plan for development of greenhouse production system in Iran.
22. 2008-2009 Preparation and development of an strategic research plan for improvement of agricultural water use at farm scale.
23. 2005-2008 Assessment and improvement of agricultural water productivity in south of Karkheh River Basin (KRB).
24. 2005-2008 Improving of Maize water productivity in selected site of Karkheh river basin.
25. 2005-2008 Determination of wheat and maize water productivity in selected site of Karkheh river basin and major effective factors
26. 2005-2008 Improving of wheat water productivity in selected site of Karkheh river basin.
27. 2005-2008 Impact of cropping pattern system and deficit irrigation on agricultural water use efficiency and measures for improving in southern part of Karkheh River Basin
28. 2005-2008 Investigation of water productivity of wheat using drip irrigation method
29. 2005-2009 Assessment of optimum irrigation water management on greenhouse productions
30. 2004-2005 Evaluation of emitter specification in microirrigation systems for use in arid and semi arid environment.
31. 1996-1997 Investigation and assessment of drip irrigation system on cherry trees.

32. 1996-1997 Assessment of saline water use on corn using sprinkler irrigation system.
33. 1995-1996 Evaluation of emitter clogging in drip irrigation system under use of low quality water

* The related reports of finalized projects are available in Persian.

SCIENTIFIC MEMBERS

1. Editorial board member of Journal of Agricultural, Biotechnology and Ecology. China. Since 2008.
2. Editorial board member of Journal of Irrigation and Drainage. Iran. Since 2007.
3. Editorial board member of Journal of Agricultural Engineering Research. Iran. 2007-2011.
4. Executive member of Iranian Society of Irrigation and Drainage. Since 2007.
5. Member of Working Group on Development and Management of Irrigation Systems in Iranian National Committee on Irrigation and Drainage (IRNCID). Since 2006.
6. Member of Working Group on Water and Sustainable development in Iranian National Committee on Irrigation and Drainage (IRNCID). Since 2006.

HONORS AND RECOGNITIONS

1. The JSPS postdoctoral fellowship for foreign researchers award (Sep, 2005) Japan Society for the Promotion of Science. Monbusho scholarship award (Oct, 2001- Sep, 2004) Ministry of Education, Science, Sports and Culture, Japan.
3. Master and PhD student more than 10. Title of thesis are available.
4. Scientific and executive secretary of different national conference.
 - First, second, third, and fourth National Conference on "Sustainable development of advance irrigation systems". 2007, 2009, 2011, 2012. Tehran. Iran.
 - First conference on "Automation in irrigation systems". 2008. Tehran. Iran.
 - First conference on "Improvement of agricultural water productivity in green houses". 2007. Tehran. Iran.

Academic Awards

1. Ministry of Agriculture in Iran award, for the best research scientist at National level. 2009.
2. The JSPS Postdoctoral Fellowship for Foreign researchers (Sep, 2005) Japan Society for the Promotion of Science.
3. Monbusho Scholarship (Oct, 2001- Sep, 2004) Ministry of Education, Science, Sports and Culture, Japan.
4. Ministry of Agriculture, Iran, for the best performance in National Documents of Optimizing Agricultural Water Use in Iran, 2000.
5. Ministry of Agriculture, Iran, for the best performance as Member of Scientific Board of 2nd National Congress on Soil and Water, Tehran, Iran, Jan 1997.

International Training Courses/Meeting

- 1- International Training workshop on Water Accounting: Concepts and Tools. 23-26 Feb 2019. FAO. Tehran/Ahvaz.
- 2- Participation in 8th World Water Forum. Brazil. 18-23 March. 2018.
- 3- Participation in 23rd International Congress on Irrigation and Drainage. Mexico City, Mexico. 8-14 October 2017.
- 4- Role Play on globalization of water management. 29-30 April. 2017. University of Twente.
- 5- Innovation on Water Resource management. 22-26 July. 2017. Asian Productivity Organization. Tehran. Iran.
- 6- Participation in 7th World Water Forum. Daegu EXCO, Gyeongju HICO. Korea. April 12-17, 2015.
- 7- Innovation on Water Resource management. 22-26 July. 2017. Asian Productivity Organization. Tehran. Iran.
- 8- Participation in 7th World Water Forum. Daegu EXCO, Gyeongju HICO. Korea. April 12-17, 2015.
- 9- Participation in first Irrigation Forum. Mardin Turkey. 29 Sep-5 Oct 2013.
- 10- Participation and presentation in Sustainable Management of Soil and Water Resources Workshop. CRDF Global, USA. 12-18 Sep 2013.
- 11- CGIAR Research Program on "Integrated Agricultural Production Systems for Improved Food Security and Livelihoods in Dry Areas", CRP1.1 planning meeting. Irrigation system in Japan. JAICA. 14 June 2011.
- 12- International Visitor Leadership Program Project "Water and Soil Management". USAD, USA. 27 July-17 June 2009 .
- 13- Integrated Agricultural Research for Development (IAR4D), Innovation Systems Approach and Innovation Platform (IP) for Improved Impact. 12-16 January 2014. Icarda, Amman, Jordan
- 14- Advance International Training Programme in Transboundary Water Management in Euphrates-Tigris region. 16-27th Janoury 2011, SIWI, Syria.
- 15- FAO Regional workshop on Planning Investment in Water for Agriculture and Energy in The Middle East. Esfahan Iran. 7-9 May, 2012.
- 16- Irrigation system in Japan. JAICA. 14 June 2011.
- 17- International Training Course on Desertification and its Control for Developing Countries. 11-25 Sep. CAREERI China.
- 18- Water Management in the DRY Areas with Special Focus Water Productivity. 3-13 Dec 2007. ICARDA.
- 19- National Strategy and action plan on drought preparedness, management and mitigation in the agricultural sector. FAO-IRAN August 10-11, 2005. Karaj .
- 20- Improving on-farm water-use efficiency. 3-14 May 1998. ICARDA.
- 21- Data analysis and presentation and scientific writing. 2-17 July 1997. Karaj, Iran.