# Curriculum Vitae

**Summary of Scientific and Research Background of Faculty Members of Birjand University**

## 1- Personal Details:

- **First name: Abolfazl**          Last name: **Akbarpour**

- Birth date: **1970**          Birth city: **Zahedan**

- Nationality: **Iran**          Marital status: **Married**

- **Postal address for correspondence**:

  Department of Civil Engineering, Faculty of Engineering, University of Birjand, Birjand, Iran, Post code: 9717434765

- **Tel. (Office):** 0098-56-32502049-50 Extension

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- **Email:** Akbarpour@birjand.ac.ir   or   **Email:** Akbar331@yahoo.com

**2. Educational Background**

| degree | Field of study | Year of graduation |
|---|---|---|
| Bachelor of Science (B.Sc.) | Water Engineering | 1994 |
| Bachelor of Science (B.Sc.) | Civil Engineering | 2005 |
| Master of Science(M.Sc.) | Civil Engineering- Water Engineering | 1998 |
| Doctor of Philosophy (Ph.D) | Civil Engineering – water and hydraulic | 2007 |

## 3- Thesis

● **Master thesis:** Assessment of hydrologic models in represented watershed

● **PhD thesis:** Distributed rainfall-runoff simulations with emphasis on temporal distribution of velocity

## 4. Area of expertise:

 Computational Hydraulics – Water resources - Surfacewater Hydrology– Ground water

## 4. Specific scientific areas:

Hydraulic, Water Resources

**5. Teaching Experience**:

Faculty of Agriculture, Faculty of Engineering, Department of Civil Engineering, Medical Science University, Department of Public Health

● Teaching lessons of Fluid Mechanics, Hydraulic,open channel Hydraulic, designing of water transfer buildings

● Teaching lessons of soil mechanics, utilization of dam and network, repair and maintenance of dam and network

● Hydrology, GIS and Remote sensing, Designing transmission and distribution of water facilities. Designing of municipal water supply, Pumps & pumping stations, Ground water, Water transfer systems.

● Complementary hydrology, remote sensing and GIS, Complementary groundwater 1 and 2 master of science

● Teaching lessons of Computer programming, Introduction to computer

### 6. Responsibilities

● Head of Computer Center

● Deputy of Water Engineering Department

● Head of Water Engineering Department

### 7- Membership in organizations:

● South Khorasan scientific observer on water projects

● The interim supervisor of Municipal deputy of Mashhad city governing in collecting surface water

● Head of Hydrology of Water and Soil Engineering Services of Khorasan

● Supervisor of rural water and sewage of South Khorasan province

● Supervisor of Regional Water of South Khorasan province

● Supervisor of natural resources in the section of watershed of South Khorasan province

● Supervisor of South Khorasan province municipalities

● Member of the hydraulic board of Iran, computational hydraulics section

### 8- Speeches:

● Flood (Prevention and solutions), Birjand University, November of 2007, Conference on Natural Disaster Reduction

### 9- Educational workshops:

● SWAT model of workshop

● GIS workshop

● Introduction to SPSS workshop

### 10- Technical skills:

● Fluent in five languages of computer programming – master in majority of water engineering software

● Master in GIS and remote sensing, and related software

## 11- Research projects:

1. **Abolfazl Akbarpour**, Studying and identifying of amount of water sources pollution in Birjand city and providing distribution maps of pollutants, Department of Environment, 2006.

2. Hossein Khozeimeh Nezhad, **Abolfazl Akbarpour**, Investigation of the erosion conditions of rectangular open channels,

3. Mohammad Mehdi Khatib, Seyed Saeed Ahmadi Zadeh, **Abolfazl Akbarpour**, Mohammad Reza Dousti, Assessment of environmental impacts of industrial town of Birjand, industrial towns, 2008.

4. Seyed Saeed Ahmadi Zadeh, **Abolfazl Akbarpour**, Mohammad Mehdi Khatib, Mohammad Reza Dousti, The possibility of seeking of disposal of waste in South Khorasan province, the Department of Environment, 2009, (as a partner)

5. Mohammad Ali Behdani – Majid Jameolahmadi, **Abolfazl Akbarpour**, Gholamreza Zamani, Ecological zoning approach to optimize saffron production in South Khorasan, Management and Planning Organization. 2008.

6. Mohammad Mehdi Khatib, Seyed Saeed Ahmadi Zadeh, **Abolfazl Akbarpour**, Mohammad Reza Dousti, Assessment of environmental impacts of Birjand port, Pouyesh Company.

7. **Abolfazl Akbarpour**, Seyed Mohammad Zavar, Studying of the feasibility of dual water systems in rural communities of rural water and sewage, 2011,

8. **Abolfazl Akbarpour**, Seyed Mohammad Zavar, Factors affecting the deterioration of electric submersible pumps and providing appropriate solutions (case study of South Khorasan province), rural water and sewage, 2012.

9. **Abolfazl Akbarpour**, Mohsen Azizi, Determining of the various components of water per capita in South Khorasan province, rural water and sewage, 2011.

10. **Abolfazl Akbarpour**, Hamid Moghadam, Investigation of the process of removing sediment in the water transmission lines in Case Study: Asfezar Aqueduct in South Khorasan province, rural water and sewage, 2012.

12. **Abolfazl Akbarpour**, Mustafa Yaghub Zadeh, Determination of runoff curve number using GIS and RS, regional water, 2010.

13. **Abolfazl Akbarpour**, Shirin Sahebdel, Quantitative and quality evaluation of water allocation scenarios using WEAP model, Golestan Regional Water Company, 2012, (presenter)

14. Majid Jameolahmadi, **Abolfazl Akbarpour**, Mohammad Sayari, various factors Influencing the growth and production of saffron, Agricultural Research Center, 2013.

15. Mohammad Mehdi Khatib, Seyed Saeed Ahmad Zadeh, **Abolfazl Akbarpour**, Mohammad Reza Dousti, Environmental evaluation of Phase 4 industrial city of Birjand, 2011.

16. Mohammad Reza Dousti, Seyed Saeed Ahmadi Zadeh, Mohammad Mehdi Khatib, **Abolfazl Akbarpour**, Waste management and environmental impact resulting from waste in active mining of province, 2011.

17. Ali Shahidi, **Abolfazl Akbarpour**, Morteza Dehghani, Hamid Moghadam, Investigation of stability of soil watershed project against Bashgezi dam of Sarbisheh city, 2012.

18. Seyed Hassan Zavar, **Abolfazl Akbarpour**, The construction of high-efficiency solar desalination pilot, 2010.

# 12 – Published papers at the conference:

1. Mohammad Bagher Sharifi, **Abolfazl Akbarpour**, Evaluation of the performance of hydrological models in the represent catchment areas, The first conference on ways to deal with the water crisis, Zabol 2001.

2. Sara Sadat Montazeri, Mohammad Bagher Rahnema, **Abolfazl Akbarpour**, Determination of instantaneous unit hydrograph using Clark model and GIS techniques, Watershed and water resource management and soil National Conference on 20 and 21 May 2004, in Kerman.

3. **Abolfazl Akbarpour**, Khosrow Hamed Eftekhar, Comparison of neural network models and created regression in predicting precipitation, National Congress of Irrigation and Drainage Networks, Shahid Chamran University, May 2006

4. **Abolfazl Akbarpour**, Mohammad Bagher Sharifi, Investigation and application of WMS model in river, The fifth Conference of Hydraulics, Faculty of Engineering, Shahid Bahonar University of Kerman, November 2005

5. Jahangir. A, Raeni. M, Ahmadi. M, **Akbarpour. A**, Simulation of rainfall-runoff process using artificial neural network in the Karde Basin, The fifth Conference of Hydraulics, Faculty of Engineering, Shahid Bahonar University of Kerman, November 2005

6. **Abolfazl Akbarpour**, Ali Kheradmand, analysis of regional drought, the second Conference of Iran Water Resources Management, Isfahan University, February 2006.

7. **Abolfazl_Akbarpour**, Hassan Farzaneghan, Majid Shabani, Quality simulation of dam reservoir using HEC-5Q model, Iran Water Resources Management Conference, Isfahan University, February 2006

8. **Abolfazl_Akbarpour**, Mohammad Sharifi, Estimating runoff curve number using remote sensing of GIS, Seventh Conference of the River Engineering, Ahvaz 2006.

9. Hussein Khozeimeh Nezhad, **Abolfazl_Akbarpour**, Mohsen Beighi, Norollah Heidari, investigation of the conditions of deposition particles move in open channels with non-erosive rectangular section of Webster, Seventh Conference of river engineering, Ahvaz, 2006.

10. **Abolfazl_Akbarpour**, Akram Deymi Niat, zoning of flood in drainage areas using WMS and comparison of the estimated flows of the mentioned model with Krieger model, the third Watershed Conference, Kerman, 2007.

11. **Abolfazl_Akbarpour**, Mehdi Noujavan, Hamid Habibi, UH optimum design using genetic algorithm, the ninth Conference of reducing Tabkhir, 2007

12. **Abolfazl_Akbarpour**, Mehdi Noujavan, Hamid Habibi, The unit hydrograph optimization using SA algorithm and genetic algorithm and comparison of their results with each other, geological research quarterly of Iran, 2009

13. **Abolfazl_Akbarpour**, Farzaneh Uraki, drought prediction by using SPI (South Khorasan province) index, drought Conference of Birjand, 2007.

14. **Abolfazl_Akbarpour**, Fatemeh Khoshbin, Simulation of input flow to dam reservoir using artificial neural network (case study of Manjil dam), the first international conference on water resources, Shahroud, 2009.

15. Mostafa Yaghoub Zadeh, Gholam Abbas Barani, **Abolfazl_Akbarpour**, The investigation of factors affecting the overtopping using USBR equations and Wilson, the ninth Conference of reducing Tabkhir, 2007

16. **Abolfazl_Akbarpour**, Armin Bahrami, Introduction to ST model (optimization of hydrogeological parameters), Journal of Abaneghan, No 16, 1998.

17. **Abolfazl_Akbarpour**, Mehdi Noujavan, Hamid Habibi, UH optimum design using algorithm of SA, the third Conference on Water Resources Management, September 2008.

18. **Abolfazl_Akbarpour**, Tokdam Soleyman Pour Moghaddam, Mostafa Yaghub Zadeh, Application of GIS for providing zooning map of vulnerability of Sarayan aquifer against pollution, Water Resources Management Conference, October 2008.

19. **Abolfazl Akbarpour**, Mohammad Sharifi, Hadi Memarian Khalil Abad, Comparison of fuzzy methods and maximum likelihood method in the preparation of land user layer by help of ETM data, Research Journal Iranian Grassland and Desert, No. 13, 2006.

20. **Abolfazl Akbarpour**, Mohammad Bagher Sharifi, runoff calculation using the spatial distribution of parameters based on topography, Engineering Department, 2006.

21. Mostafa Yaghub Zadeh, Gholam Abbas Barani, **Abolfazl Akbarpour**, Comparison of vegetation maps produced from IRS and Landsat satellite images using NDVI and VI, indices, 2008, the first international conference on the water crisis.


22. Behrouz Etebari, **Abolfazl Akbarpour**, Mostafa Yaghub Zadeh, Comparison of Newman and Tays methods in determination of free aquifer hydrodynamic coefficients (Case study: Plain of Darmian- Asadabad in South Khorasan province), 2008, the seventh Hydraulic conference of Iran.

23. Syed Saeed Ahmadi Zadeh, Mohammad Reza Dousti, **Abolfazl Akbarpour**, the criteria of finding location for hazardous waste burial, set of papers of the Fourth Conference of Environmental Engineering, 2010.

24. Mohammad Reza Farzaneh, Seyedeh Zahra Samadi, **Abolfazl Akbarpour**, Introducing the the most appropriate model of GCM statistical small scaling of data of temperature and raining under Behesht Abad basin of Northern Karun, 2000, the Sixth National Conference on Science and Engineering Watershed of Iran.

25. Hamid Kardan Moghadam, Zahra Rahim Zadeh, Morteza Dehghani, **Abolfazl Akbarpour** , Optimized role of artificial feeding in reducing dangers of urban floods (Case Study: South Khorasan province- Northern Sarbisheh Plain), 20109, the first national conference on urban flood management.

26. Mehran Ghodrati, Mehdi Noujavan, **Abolfazl Akbarpour**, Hydraulic conductivity of aquifer, estimation and optimization using genetic algorithms (case study: Plain of Hashtgerd), 2009, the first conference of groundwater.

27. Mohsen Mohtasham, Amir Ahmad Dehghani, **Abolfazl Akbarpour**, Prediction of of shallow groundwater using artificial neural network (case study: Birjand plain), 209, the Eighth International Congress of Civil Engineering.

28. Mohammad Javad Nahvi Nia, Bakhtiar Karimi, Hamid Moghadam, **Abolfazl Akbarpour**, Peak discharge catchment sensitivity analysis using WMS model (Case Study: catchment of ward valley of Birjand), 2008, the first international conference on the water crisis.

29. Samaneh Barzenuni, **Abolfazl Akbarpour**, Examination of chemical or microbial quality of drinking water in villages of Birjand city, 2000, The Fourth Conference of Environmental Engineering.

30- **Abolfazl Akbarpour**, Mohsen Azizi, Seyed Hassan Zavar, The investigation of using dual water systems in rural communities, 2009, The third national conference on water and sewage by operation approach.

31. Mostafa Yaghoub Zadeh, Abbas Ali Barani, **Abolfazl Akbarpour**, Providing the map of runoff curve number and Surface storage coefficient of catchment area of Mansourabad Birjand using GIS and Satellite images of IRS, 2009, The Eighth International Congress of Civil Engineering.

32. Mostafa Yaghoub Zadeh, Abbas Ali Barani, **Abolfazl Akbarpour**, Determining of runoff curve number of catchment area of Mansourabad Birjand using ETM + images, 2008, The National Conference of irrigation network management.

33. Samaneh Barzenuni, **Abolfazl Akbarpour**, Conditions of using of septage in agricultural land fertility, Proceedings of the Fourth Conference of Environmental Engineering, 2000.

34. **Abolfazl Akbarpour**, Mohsen Azizi, Mohsen Agha Hossein Ali Shirazi, management of using groundwater in Mokhtaran using mathematical model of finite difference in the GMS environment, The First National Conference of the Desert, 2000.

35. Seyed Hassan Zavar, **Abolfazl Akbarpour**, designing and modeling of a new solar desalination system for desert regions, 2000 , The First National Conference of the desert.

36. **Abolfazl Akbarpour**, Mohammad Reza Farzaneh, qualitative zoning of groundwater of Birjand using kriging, The First National Conference of the Desert, 2000

37. Mohammad Reza Farzaneh, Masoumeh Fakhri, **Abolfazl Akbarpour**, zoning of qualitative parameters Khezri plain of South Khorasan province, The First National Conference of the Desert, 2000

38. Mohammad Reza Farzaneh, **Abolfazl Akbarpour**, Hadi Hassan Zadeh, Seyed Saeed Eslamyan, zoning of maximum wind speed in South Khorasan province for the construction of wind power plants in the region. The first National Conference of the Desert, 2000

39. Hamid Kardan Moghadam, Zahra Rahimzadeh, **Abolfazl Akbarpour**, Morteza Dehghani, optimized locating of artificial nutrition by methods of FA standards and Fuzzy Logic in GIS, The First national Conference on Water Resources Applied Research in Iran, 2000.

40. Hamid Kardan Moghadam, Morteza Dehghani, Mohsen Mohtasham, **Abolfazl Akbarpour**, locating underground dam construction for underground water resource development with

capabilities of GIS and RS, The first national conference on water resources applied research in Iran, 2000.

41. **Abolfazl Akbarpour**, Mohsen Shirazi , Mohsen Azizi, Behrouz Etebari, Comparison of Tays, Jacob, Tays and Hantush methods in determining of the hydrodynamic coefficients of free aquifers, The Eighths Hydraulic Conference, Iran, 2000.

42. Hamid Reza Moghadam, Zahra Rahimzadeh, **Abolfazl Akbarpour**, Morteza Dehghani, The role of optimized positioning of artificial nutrition in reducing the effects of drought by using fuzzy logic (Fuzzy logic) in the (GIS) (Case Study: South Khorasan province -  Northern Sarbishe Plain) the first national conference of Desert: opportunities and threats 2000.


43. Mohammad Reza Farzaneh, **Abolfazl Akbarpour**, The investigation of the amount of nitrate in groundwater, the fourth Conference of the World Environment Day, 2009.

44-Mohammad Reza Farzaneh, **Abolfazl Akbarpour** , The investigation of increase of temperatures during the period 2040 to 2069 in the area of Behesht Abad, 2009, the fourth Conference of the World Environment Day.

45. Hamid Kardan Moghadam, **Abolfazl Akbarpour**, Locating of identification of arid areas using the RS capability, 2009, The first conference on agricultural science and environmental tensions.

46. Mohammad Reza Farzaneh, **Abolfazl Akbarpour**, Investigation and comparison of highlighting of the deposition process of implemented artificial feeding projects, 2009, The first conference on agricultural science and environmental tensions.

47. Mostafa Yaghub Zadeh, Gholam Abbas Barani, **Abolfazl Akbarpour**, Determination of the hydrological situation of catchment using GIS, 2009, The drought conference

48. Mostafa Yaghub Zadeh, **Abolfazl Akbarpour**, Mehdi Bairami, The use of GIS and RS to investigate classification algorithms, 20098, The Eighth International Congress of Civil Engineering.

49. Seyed Mohammad Hassan Zavar, **Abolfazl Akbarpour**, Comparison of the practical application of installed fluid electro-pumps in steel sinks instead of high-pressure centrifuges electro-pumps in pumping stations, 2008, A national conference on water utilization management.

50. Mustafa Yaghub Zadeh, **Abolfazl Akbarpour**,  The investigation of the map of runoff curve number taken from Landsat images (2002) and IRS (2006) using the Geographic Information System and remote sensing, The eighth Conference of Civil Engineering, Shiraz, 2009.

51. Mostafa Hadi Zadeh, Ali Shahidi, **Abolfazl Akbarpour**, Mohammad Reza Farzaneh, Analysis of uncertainty in the estimation of rainfall due to climate change, The Fourth Conference on Water Resources Management in Iran, 2011.

52. Hojjat Tork Zad, Ali Shahidi, **Abolfazl Akbarpour**, Mohammad Reza Farzaneh, Climate zoning of South Khorasan province based on Domarten factor, The fourth Conference on Water Resources Management, Tehran, 2011.

53. Mohsen Agha Hossein Ali Shirazi, **Abolfazl Akbarpour**, The estimation of daily demand of urban water using Fourier series, the National Conference of water and sewage, Tehran, 2011.

54. Hamid Reza Kardan Moghadam, Zahra Rahimzadeh, **Abolfazl Akbarpour**, Soheil Azad Nia, The estimation of runoff curve number based on fuzzy logic using remote sensing, the fourth Conference on Water Resources Management, Tehran, 2011.


55. Alireza Rohollahi, Ali Shahidi, **Abolfazl Akbarpour**, Behrouz Etebari, The prediction of water table in aquifer using GMS software, aquifer, the fourth Water Resources Management Conference, Tehran, 2011.

56- Mohsen Mohtasham, Amir Ahmad Dehghani, Abolfazl Akbarpour, the prediction of water table in aquifer using GMS software, aquifer, the fourth Water Resources Management Conference, Tehran, 2011.

57. Alireza Rohollahi, Ali Shahidi, , **Abolfazl Akbarpour**, Behrouz Etebari, Optimization of factors related to qualitative aquifer parameters in order to predict the transfer coefficients of groundwater, the fourth Conference on Water Resources Management, Tehran, 2011.

58**. Abolfazl Akbarpour**, Behrouz Etebari, Groundwater modeling to determine the qualitative boundaries of y drinking water wells, The fourth Conference on Water Resources Management, Tehran, 2011.

59. Alireza Rohollahi, Ali Shahidi, **Abolfazl Akbarpour**, Behrouz Etebari, Zoning of groundwater qualitative parameters, the Fourth Water Resources Management Conference, Tehran, 2011.

60. **Abolfazl Akbarpour**, Mohsen Azizi, Factors affecting per capita water consumption pattern in rural communities, the Fourth Conference on Water Resources Management, Tehran, 2011.

61. Mohsen Agha Hossein Ali Shirazi, **Abolfazl Akbarpour**, Estimation of daily demand for municipal water using temperature thresholds to determine base consumption, the Fourth Conference on Water Resources Management, Tehran, 2011.

62. Mohsen Shirazi, Abolfazl Akbarpour, prediction of short-term daily consumption of water using the heat function, the fourth Conference on Water Resources Management, Tehran, 2011

63. Shirin Sahebdel, Abolfazl Akbarpour, quantitative and qualitative evaluation of water allocation scenarios using WEAP model, Fourth Water Resources Management Conference, Tehran, 2011

64. Mustafa Yaghub Zadeh, **Abolfazl Akbarpour**, The investigation of runoff curve number Mansour Abad catchment using GIS and Landsat images, The Fourth Conference on Water Resources Management, Tehran, 2011.

65. Mohsen Agha Hossein Ali Shirazi, **Abolfazl Akbarpour**, Mustafa Yaghub Zadeh, Multi-purpose methodology to determine the best location small underground dams in arid areas (Case Study Mokhtaran Plain), The second conference of Water Resources Management, Tehran, 2000.


66. Shahrzad Sadeghi, **Abolfazl Akbarpour**, Mustafa Yaghub Zadeh, Preparation of potential runoff techniques map using GIS , The eleventh seminar of irrigation and decrease of evaporation, July of 2011.

67. Elaheh Sadat Bani Hashemi, **Abolfazl Akbarpour**, Saeed Eslamyan, GV model presentation to simulate the saturated changing environment, the Eleventh national seminar of irrigation and reducing evaporation, July of 2011.

68. Shahrzad Sadeghi, **Abolfazl Akbarpour**, Hamed Foroughi Far, Ali Shahidi, Determining of areas prone to collect rainwater, relying on capacity of runoff production by GIS based decision support system of DSS, the Eleventh National seminar of irrigation and reducing of evaporation, July of 2011.

69. Shahrzad Sadeghi, **Abolfazl Akbarpour**, Hamed Foroughi Far, Ali Shahidi, Comparison of two different strategies in locating areas prone to collect rain with GIS based decision support system of DSS, The Eleventh National seminar of irrigation and reducing of evaporation, July of 2011

70. **Abolfazl Akbarpour**, Mohammad Kebar Fard, Mojtaba Aliparast, High-resolution numerical models in the process of finding of flooding caused by dam breaks by means of limited volumes using unstructured triangular network, The first international conference and third national conference of dam and Hydroelectric plants, July of 2011.

71- Hojjat Tork Zad, Ali Shahidi, **Abolfazl Akbarpour**, Mohammad Farzaneh, Analysis of regional changes of temperature in the following three periods using outputs of CSIRMK3 model under four scenarios of release, The Ninth National Conference on Assessment of Environmental Impact, July of 2011.

72. Abbas Khashaee, **Abolfazl Akbarpour**, Ali Akbar Keshavarz, Determining of suitable sites for collect rainwater using fuzzy analytic hierarchy model, The third conference of comprehensive management of water resources, September of 2011, Sari

73- **Abolfazl Akbarpour**, Elham Gochian, Behrouz Etebari, Management of groundwater using a combination of WEAP and MODFLOW models, The third conference of comprehensive management of water resources, September of 2011, Sari

74- **Abolfazl Akbarpour**, Elham Gochian, Behrouz Etebari, Estimation of results of groundwater resources using numerical models, the third conference of comprehensive management of water resources, September of 2011, Sari

75- **Abolfazl Akbarpour**, Seyed Ehsan Khorasani, Samira Shafia, Studying of hydraulic indicators on the development and modernization of urban water distribution networks, The Eleventh Conference of Hydraulic in Iran, November of 2012, Urmia University.

76. Alireza Rohollahi, Ali Shahidi, , **Abolfazl Akbarpour**, Behrouz Etebari, Optimization of factors related to qualitative aquifer parameters in order to predict the transfer coefficients of groundwater, The fourth Conference on Water Resources Management, Tehran, 2011.

77. **Abolfazl Akbarpour**, Seyed Ehsan Khorasani, Samira Shafia, Investigation of Hydraulic indices on the development and modernization of water distribution networks) Case Study: Nahbandan city (The seventh National Congress of Civil Engineering, Engineering Faculty of Shahid Nikbakht, Zahedan, May of 2013.

78. **Abolfazl Akbarpour**, Elham Gochian, Behrouz Etebari, The assessment results of groundwater resources using numerical models, the third national conference on water resources management, Sari, September of 2012.

79. **Abolfazl Akbarpour**, Elham Gochian, Behrouz Etebari, Groundwater management, using a combination using combined models of WEAP and MODFLOW, The third conference of Water Resources Management, Sari, September of 2012.

80. Akbar Keshavarz, **Abolfazl Akbarpour**, Abbas Khashee, To determine suitable sites to collect rainwater) «RWH (for artificial recharge of aquifers using Fuzzy Hierarchy analysis of FAHP Case study: Plain of Birjand, The third conference of Water Resources Management, Surrey, Sari, September of 2012.

81. **Abolfazl Akbarpour**, Mohammad kobar fard, Mojtaba Ali Parast, Hossein Mehdi Zadeh, Two-dimensional model development of dam break, finite volume method, The Ninth International Conference on River Engineering in Ahvaz, 2012.

82. **Abolfazl Akbarpour**, Mohammad kobar fard, Mojtaba Ali Parast, Hossein Mehdi Zadeh, Investigation of the effects of different levels of space and time in the shallow waters issues with finite volume method, the Ninth International Conference on River Engineering in Ahvaz, 2012.

83. Mustafa Yaghub Zadeh, **Abolfazl Akbarpour**, Studying of watershed hydrologic changes with the use of remote sensing and GIS, the ninth International Conference on River Engineering in Ahvaz, 2012.

84. Dorsa Darikandeh, **Abolfazl Akbarpour**, Seyed Reza Hashemi, Mohsen Pour Reza Bilondi, Flood simulation using distributed rainfall - runoff model of AFFDEF, National Congress of irrigation and reducing evaporation, September of 2013.

85. Bahareh Sadat Hamraz, **Abolfazl Akbarpour,** Mohsen Pour Reza Bilondi, The uncertainty analysis in simulation of undergrounds model, the first national conference on water consumption optimization, March of 2013.

86. **Abolfazl Akbarpour**, Halimeh Ataee, Numerical simulation of debris flow using advanced Riemann solver, The twelfth Hydraulic Conference of Iran, November of 2013.

87. Zeinab Mirzaee, **Abolfazl Akbarpour**, Abbas Khashee, Mohsen Khatibi Nia, The assessment of the flow subsidence amount from body of earthen dam with the finite element software Seep / w, The second national conference on the sustainable development of agriculture and a healthy environment, September of 2013.

88. Hadigheh Mohammadi, Fariba Babanian, Hassan Kazemi, Ali Bagheri, **Abolfazl Akbarpour**, Determination of active mechanisms related to economic activity and its effects on underground water resources with a dynamic approach using the software of Vensim to address the concept of sustainable development (study case: Birjand plain), The second national conference on environmental protection and planning, December of 2013.

89. Hadigheh Mohammadi, Ali Bagheri, **Abolfazl Akbarpour**, Introduction to regional planning and its relationship with land use planning for sustainable development, The second national conference on environmental protection and planning, August of 2013.

90. Dorsa Darikandeh, **Abolfazl Akbarpour**, Reza Hashemi, Mohsen Pour Reza Bilondi, Flow simulation using AFFDEF distributed rainfall-runoff model, the National Congress of irrigation and reducing of evaporation, July of 2013.

91- **Akbarpour,A**., Etminan,J., Application of spatial analysis in prediction water quality, Water Resources Management 2007 Conference, Greece.

92- Etebari,B., Janparvar, M.,**Akbarpour,A**.,Using arcview/gis as a tool for data management in groundwater modeling with pmwin, case study sarayan aquifer, diamond jubilee at Ottawa,2007.

93. Jami-alahmadi, M., M.A. Behdani, and **A. Akbarpour**. 2010. Analysis of agronomic effective factors on yield of saffron agroecosystems in Southern Khorasan. In: Tsimidou, M.Z., Polissiou, M., and Fernandez, J.A. (eds.), Proceedings of the Third International Symposium on Saffron: Forthcoming Challenges in Cultivation, Research and Economics. 20-23 May 2009, Krokos, Kozani, Greece. Acta Horticulture (ISHS). 850: 123-129.

94. Behdani, M.A**.,** M. Jami-alahmadi, and **A. Akbarpour**. 2010. The evaluation of plant indices on growth and production of saffron agroecosystems in Southern Khorasan. In: Tsimidou, M.Z., Polissiou, M., and Fernandez, J.A. (eds.), Proceedings of the Third International Symposium on Saffron: Forthcoming Challenges in Cultivation, Research and Economics. 20-23 May 2009, Krokos, Kozani, Greece. Acta Horticulture (ISHS). 850: 179-188.

**95. Akbarpour, A**., M.A. Behdani, and M. Jami-alahmadi. 2010. Saffron yield potential zoning as the result of environmental and agronomic effective factors and plant effective indices using GIS in Southern Khorasan. In: Tsimidou, M.Z., Polissiou, M., and Fernandez, J.A. (eds.), Proceedings of the Third International Symposium on Saffron: Forthcoming Challenges in Cultivation, Research and Economics. 20-23 May 2009, Krokos, Kozani, Greece. Acta Horticulture (ISHS). 850: 199-203.

**96- Akbarpour.A,** Khorashadizadeh,O, Aliparast.M, Investigation of different temporal and spatial orders in shallow water problems, 5 International congress of environmental research, 22-24, November 2012, Malaysia.

**97- Akbarpour.A,** Khorashadizadeh,O, Aliparast, Application of shallow water equations in flood routing due to dam break, 5 International congress of environmental research, 22-24, November 2012, Malaysia.

98- Elham Ghoochanian, Behrooz Etebari **, Abolfazl Akbarpour,** Integrating groundwater management with WEAP and MODFLOW models (Case study: Birjand Plain, east of Iran), MODFLOW and More 2013: Translating Science into Practice – Conference, June 2-5, 2013, COLORADO.

99. Bahram Ahmadi, Seyyed Reza Hashemi, **Abolfazl Akbarpour**, Azizollah Izadi, Spatial assessment of water hardness of Esfaraen plain using geo-statistical methods, Proceedings of the Second National Congress of the water crisis, September of 2014.

100. Bahram Ahmadi, Seyyed Reza Hashemi, **Abolfazl Akbarpour**, Azizollah Izadi, Investigation of determining of appropriate monitoring of groundwater network to sustainable development, Proceedings of the Second National Conference on Water Crisis, September of 2014.

101. Bahareh Sadat Hamraz, **Abolfazl Akbarpour**, Mohsen Pour Reza Bilondi, Analyzing uncertainty in underground simulation models, Proceedings of the First National Conference on

optimization of water use, March of 2013- Gorghan University of Agricultural Sciences and Natural Resources.

102. Bahareh Sadat Hamraz, **Abolfazl Akbarpour**, Mohsen Pour Reza Bilondi, Investigation of different methods of uncertainty analysis and its application in groundwater model, Proceedings of the Second National Conference on Water Crisis, Branch, September of 2014.

103. Bahareh Sadat Hamraz, **Abolfazl Akbarpour**, Mohsen Pour Reza Bilondi, Analysis of parametric uncertainty of underground models by GLUE (Case study: Birjand plain), Proceedings of water harvesting and watershed Congress, February of 2014, Birjand.

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## 15- Assistance of Master Thesis

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2. Elaheh Sadat Bani Hashemi (2011), The modeling of unsaturated zone flow using Groundwater Vistas software.

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6. Shahrzad Sadeghi (2011), determination of locations prone to collect rainwater with help of GIS based decision support system.

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9. Samaneh Barzenuni (2011), optimization and calibration of hydrodynamic models of groundwater parameters using genetic algorithms.

10.Mohsen Azizi (2000), to determine the various components of water per capita in the province of South Khorasan.

11. Hamid Kardan Moghadam (2000), optimization sediment removal conditions in water lines.

12. Akbar Keshavarz (2012), determination of locations prone to collect rainwater from the fuzzy hierarchical analysis model.

13. Samira Shafee (2013), numerical estimation of sediments movement by using the wave section method.

14. Halima Ataee (2013), Numerical simulation of flood waves, including debris flow using advanced Riemann solver.

15. Zeinab Mirzaee (2013), optimization of horizontal and diagonal drainage parameters the homogenous earthen dams using the algorithm of PSO.

16. Hadigheh Mohammadi (2013), regional approach in the analysis of Birjand plain water system vulnerability to water shortages.

17. Mohammad Kebar Fard (2011), assessment of using high-resolution finite volume method in flood routing.

18. Emad Jafar Pour Moghadam, (2014), the optimized two-arched dams based on reliability.

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2. Mehdi Zaree (2013), simulation of contamination transfer using finite volume method on networks with irregular triangular structure.

## 15-2- Advisor of master thesis

1. Kamal Jamshidi (2012), Zoning of the ecological agriculture capability to cultivate corn using geographical information system.

2. Effat Heidar Nezhad (2011), the investigation of dynamics of the weed population in the saffron farms of Ghayenat city relying on GIS system.

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**16- Assistance of BA thesis**

Fifty students

# 17- Project judgment

 The Seventh Conference of hydraulic in Tehran

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 The Tenth Conference of Hydraulic of Iran

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## 18- scientific-research projects judgment

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