

Curriculum Vitae

1. Personal Information

First Name : Abbas
 Last Name : Keshavarz
 Date of Birth : 22/12/1946
 Place of Birth : Karaj-IRAN
 Marital Status : Married
 No. of Children : 3

2. Educational Background

<u>Degrees</u>	<u>Name of Institution</u>	<u>Major Field</u>	<u>Years</u>
B.Sc.	Agricultural Faculty- Tehran Univ.	Irrigation Eng.	1966-1970
M.Sc.	Agricultural Faculty- Tehran Univ.	Irrigation Eng.	1975-1979

3. Professional Experiences

<u>Year</u>	<u>Name of Institute</u>	<u>Duty</u>
- Oct, 1970-May 1972	Azerbaijan Water & Power Authority	1/c Irrigation Units of Ardabil, Sarab & Khalkhal Cities
- June, 1972- Oct, 1975	Agricultural Cooperative Co. Azerbaijan & Khuzistan Provinces	Irrigation Officer
- Oct, 1975-Sep, 1977	Agricultural Cooperative Co. – Tehran Province	Agricultural Officer
- Sep, 1977-Feb, 1981	Agricultural Cooperative Co-Organization Tehran	Technical & Irrigation Expert
- Feb, 1981-Aug, 1983	Agricultural Production Cooperative- Tehran	Director General of the Evaluation & Planning Office
- Aug, 1983- June. 1985	Member of High Commission Rural Services Deputy Minister's Office	Irrigation Specialist
- June, 1985- Sep, 1988	Ministry of Agriculture	Director General of Agricultural Planning
- Sep, 1988- Apr, 1989	Agricultural Research, Education & Extension Organization (AREEO)	Specialist for Agricultural Development& Coordination
-Dec, 1988- Aug1997	Agricultural Research, Education & Extension Organization (AREEO)	Director of Iranian Agricultural Engineering Research Institute (IAERI)
- Aug, 1997- Feb 2001	Agricultural Research, Education & Extension Organization (AREEO)	Deputy Minister of Agriculture & Head of AREEO
- Feb, 2001 to Dec 2005	Agricultural Research, Education & Extension Organization (AREEO)	Director General of Seed and plant Improvement research Institute
- Jan 2006- Apri2009	Water and Sustainable Agricultural Consultancy Engineering	Board Chair and Senior Irrigation Expert
- May 2009-now	Ministry of Energy	Head of Integration Group for Water Comprehensive Study Project
- Jun 2009-now	Strategic Research Center	Head of Water and Agriculture Research Group

3.1 Publications in Persian:

1. Design and development of tractor mover-binder. Research Registration No., 18, IAERI, 1993.
2. Effect of saline water spray on yield response of cotton. Research Report Registration No., 19, IAERI, 1993.
3. Investigation of hydraulic problems of water intakes under the effect of siltation in hydraulic structures. Research Report Registration No., 20, IAERI, 1993.
4. Determination of Mathematical Model for the cost estimate of operation and maintenance of three common tractors in Iran. Research Report Registration No., 23, IAERI, 1994.
5. Crankless cutter-bar mover. Research Report Registration No., 25, IAERI, 1994.
6. Evaluating run-off under center pivot irrigation system. Research Registration No., 26, IAERI, 1995.
7. Evaluation of the effects of sprinkler height on the water losses due to wind velocity on center pivot irrigation system. Research Registration No., 34, IAERI, 1995.
8. Evaluation and calibration of MZ-30 sprinkler made in Iran. Research Registration No., 35, IAERI, 1995.
9. Design & development of rotary cutter-bar mower. Research Registration No., 36, IAERI, 1995.
10. Investigation on furrow irrigation models and selection of efficient method. Research Registration No., 63, IAERI, 1996.
11. National Research Report of Water sector in the year 1993 Project Leader Abbas Keshavarz Summer 1996.
12. National Research Report of Water sector in the year 1997 Project Leader Abbas Keshavarz Winter 1998.
13. National Water Document Crops water requirement, Cropping pattern, Irrigation efficiency, A.Keshavarz, et al. In 28 volumes for different provinces.
14. Major challenges and research priorities of water in agriculture sector-presented at the workshop related to the topic, June 2000.
15. Recommendations on optimization and efficiency of water use in arable lands of Iran, 2000 Sadeghzadeh K., Keshavarz A., 2000, published by Extension Programs and Technical Publication Bureau.
16. Final report of National Project research priorities setting of Water Sector in the National Plan, Project Leader Abbas keshavarz- Autumn 2000.
17. Management of Agricultural Water use, estimation future demand, drought year crisis, present status, future visions and strategies for optimization of water use, Abbas Keshavarz and Kourosh Sadeghzadeh, December 2000.
18. Water Productivity Index and Solutions for Future Agricultural Activities in Iran/Abbas Keshavarz/Hossein Dehghanisanije, Economic Strategy Journal ISR Summer 2012

3.2- Papers Published in the Proceeding

a) In Persian:

1. Trend of Agricultural Development Economic Development Plans of in Iran. First National Congress on Agricultural Development Issues in Iran, Tehran-Iran, 1988.
2. Technical and Scientific Criteria for the development of pressurized Irrigation Systems Development in Iran. First Technical Conference related to Production & Application of Pressurized Irrigation System, Tehran- Iran, 1989.
3. Pollution of Water Resources and Sustainable Agricultural Development. The First Iranian Congress on Irrigation, Water Management, Land Use Strategy and Planning in Agricultural, September 17-19, 1994. Tehran, Iran.
4. Some Recommendations Concerning Water Use and Irrigation Planning in Iran. The First Iranian Congress on Irrigation, Water Management, Land Use Strategy and Planning in Agricultural, September 17-19, 1994. Tehran, Iran.
5. Interim Report on Irrigation and Drainage Researches conducted bt IAERI. Water Commission of Scientific Research Councils Workshop, 1994. Tehran-Iran.
6. Investigation of farmer managed surface irrigation procedures in Iran, published in the proceeding of the second National Congress of soil and Water February 1996.
7. Economic without dependence on oil, Water, Soil, Machine Journal publication. Sept. Oct 1997 No. 30 and 31.
8. Comparison Ecophysilogic parameters of Corn and Soybeans under nitrogen stress. Presented at the Fifth Iranian Congress on agronomy and Plant Improvement (Agriculture in Iran in the year 2021).
9. Agriculture in Iran in the year 2021, presented at the 5th Congress of Agronomy and Plant Improvement Iran, August 30-September 3, 1999.
10. Model of Water use in Agriculture. Published in Journal of Scientific and Research Papers, Agricultural Engineering Research, N.14, Summer 1999.
11. Method identification in the National Document for optimization of water use in agriculture, proceeding of seventh Seminar of irrigation and Reduce of evaporation Kerman March 1999.
12. Role of scientific and practical training in research development Lecture delivered in the second Conference for scientific and practical investigation and analysis, Tehran, March 1999.
13. Deficit irrigation optimization and its mathematical and economical analysis. Abbas keshavarz and Koroush Sadeghzadeh, Agricultural Engineering Research Journal, Vol. No.17, Spring 2000.
14. Main research challenges and priorities facing agriculture sector, published in the workshop on research Challenges and priorities of Water Sector, June 2000.
15. Report on National project for research priorities setting in Water Sector of National Research Program, September 2000.
16. Present situation, future perspective and strategies for increasing Irrigation efficiencies. Keynote Address at The 10th Conference, of National Committee for irrigation and drainage titled Management, requirement And water use in agriculture, October 2000.

17. Report on research priorities setting in Water Sector of National Research Plant, in the process of being printed in the Journal, December 2000.

b) **In English:**

1. Comparison of Asphalt Emulsion and Portland Cement for Stabilization of Dispersive Soils, Agricultural Engineering Conference, AIT-Bangkok, Thailand, December 6-9, 1994.
2. Evaluation of Surface Irrigation Systems Evaluation, under farmers management, Presented in: XII World Congress on Agricultural Engineering-Milan, Italy, August 29-September, 1994.
3. Electro-Osmosis Irrigation presented as a Poster in XII CIGR World Congress and Ag. Eng., Conference on Agricultural Engineering-Milan, Italy, 29th August-1 st. September 1994.
4. Application of Satellite Image data to Large-Scale Water Use Systems in Arid Areas of Iran, Presented at The 17th Asian Conference on Remote Sensing, Colombo, Sri Lanka, 4-8 Nov. 1996
5. Evaluation of Farmer Managed surface Irrigation Systems in Iran, Proceedings of 16th International Congress on Irrigation and Drainage, Cairo, EGYPT, 1996.
6. Subsurface Drain Spacing Computations based on Multicropping Patterns presented at the 7th ICID International Drainage Workshop 17-21 November 1997, Venue: Penanage, Malaysia.
7. Irrigation and Drainage network for sugarcane production in Iran. Seventh International Drainage Symposium, Orlando, Florida, 1998. (Paper accepted).
8. Wheat Production in Iran "A success Story" Published by Asia-Pacific Association of Agricultural Research Institutions (APPARI), FAO Regional office for Asia & Pacific Bangkok.
9. An overview of land in Iran. Seventh International Drainage Symposium, Orlando, Florida, 1998. (Paper accepted).
10. An Analytical Solution of Richards' Equation for One-Dimensional, None-Steady State and Vertical Drainage Problem, Thailand, June 1998.
11. Irrigated Agriculture and Salinity Problems in the Khuzestan Province of Iran. Sustainable Development in Irrigated Agriculture in Arid Land Areas Sand Dune Research 45, 1998.
12. Irrigation scheduling for the Shavuot Areas located in the Khuzestan Province of Iran. Aiming for Sustainable Development in Arid Land Areas, Journal of Arid Land Studies Vol. 8, No. 2, 1998.
13. Desertification and Salinity Problem in Iran, Sustainable Development in Irrigated Agriculture in Arid Land Areas. J.Japan Soc. Hydrol & Water Resour. Vol. 11, No. 4,1998.
14. Investigation and determination of water requirement for land reclamation of saline-soils of south-east of Khuzestan province- Abbas Keshavarz and Ebrahim pazira, presented at the Int'l workshop on "Use of marginal Saline to saline waters in irrigation, presented though Intonation Commission for Irrigation and Drainage (ICID) in Bali, Malaysia, July 1998.
15. M. Taeb and A. Keshavarz 1998, Country's Agricultural Status Report, Iran. National Agricultural Research Systems in the Asia-Pacific Region a Perspective Published by Asia-Pacific Association of Agricultural Research Institutions (APAARI), South Korea.
16. Practical Evaluation of Soil Desalinization Models (A Case Study, Iran) Presented at the Int'l Agricultural Engineering Conference, AIT – Pazira E, Vaziri., and Keshavarz- Thailand, December 1998.

17. Effect of Polyacryl Amide chemical on the rate of Infiltration, erosion control and soil losses in furron Irrigation, presented at the Workshop on New Biotechnology Achievements in Agricultural Development. 1999
18. Yamamoto. T, HL. Yao, Keshavarz A. and Agodoz, 1999 Analysis of Soil Degradation Due to Irrigated Agriculture and Sustainable Water Management I Arid Land Areas Presented at 1999. ASAE/CSAE-ACGR Annual International Meeting.
19. Model for optimization of water use pattern in agriculture for meeting the water need of farmers, Presentable at Int'l conference of water resources management, use and methods in dry areas Amman, Jordan October 1999.
20. Keshavarz A, March 2000, The Strategy for National Development of Agriculture in the year 2010, Published by Ministry of Agriculture, Islamic Republic of Iran.
21. Policies, institutions and Economies of Water Resources and Management in the Karkheh River Basin Of Iran. Research Report N010, A.Keshavarz, H. Dehganisani, H.Asadi, T.Oweis and A.M.Abdelwahab. ICARDA(International Center for agriculture in th Dry Areas,2012)

4- **Registered Inventions:**

1. Design and development of tractor mower- binder: registered in the Iranian patent Registration Office Ministry of Industries by No. 25880 dated Feb. 11, 1994.
2. Crank less cutter – bar mower; Registered in the Iranian Pattern Registration Office, Ministry of Industries by No. 24709 dated Feb. 1994.

5- **Teaching Experiences**

<u>Year</u>	<u>Name of Institute</u>	<u>Level</u>
1989 up to 1997	Tehran Univ.Faculty of Agriculture, Dept. Of Irrigation and Drainage Engineering	M.Sc. Courses(Design of micro irrigation systems).

6- **M.sc. thesis Consultation under the headings of:**

<u>Title</u>	<u>Institute</u>	<u>Year</u>
1. Evaluation of economical, Social and technical effects in pressurized irrigation systems of tea Plantation in north part of Iran.	Tehran Univ. Faculty of Agriculture, Department of Agricultural Education & Extension	1993
2. Evaluation and calibration of MZ-30 sprinkler made in Iran.	Isfahan Univ. faculty of Agriculture Department of Agricultural Engineering	1995
3. Sub. Irrigation with porous pipe	Tehran Univ. faculty of Agriculture, Department of Agricultural Engineering.	1997

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| 4. Selection of efficient system of irrigation by use of Expert systems | Tehran Univ. Faculty of Agriculture
Department of Agricultural Engineering. | 2000 |
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7. Membership in Scientific societies

7-1 Membership in International Scientific Societies

	<u>Membership status</u>
1. ASAE(American Society for Agricultural Engineers) up to 1999.	Member
2. AAAE(The Asian Association for Agricultural Engineering)	Member
3. ICARDA (Int'l Center for Agricultural Research in the Dry Areas) 1999-2005	Member of BOT
4. IWMI (Int'l water management Institute) Member of Steering Committee for water and food program. 2001-2005	Member of SC

7-2 Membership in Iranian Scientific Society

	<u>Duration</u>
1. Membership of Water Commission of National Research Council	1994-2001
2. Member of Agriculture Commission of National Research Council	1997-2001
3. Member of special Commission of National Research Council	1998-2001
4. Member of Central Council of University for Comprehensive Scientific And Applied studies	1995-2000
5. Member of Expert Committee of Scientific Applied Studies-Extention Council of Ministry of Cultural and Higher Education Research and Technology	1997-2000
6. Member of Research, Development and Technology Council for the Advancement of Science and Technology	1998-2001
7. Member of Committee for evaluation, augmentation and Technology Development of Water and Agriculture Council of the Third National Development Plan	1998-2001
8. Member of Board of Trustees of Karj Agricultural Training Collage	1999-2003
9. Member of Planning Council of Education and training of technical and skilled services	1999-2003
10. Member of Board of Trustees of for agricultural Planning and Economics Research Institute	2000-2004
11. Member of editorial board of Scientific-Research Journal of Agricultural Engineering Research	1995-2005

7-3 Membership in Executory Societies

1- Member of High council of water	2001-2005
2. Member of High Council of Agriculture Research,	

Education and Extension Organization	1994-2006
3. Deputy Chairman of Headquarters for policy making and Coordination of Agricultural Research	1997-2001
4. Member of Agricultural Committee Council for Water and Agriculture In last three five Development Plan	1988-2003
5. Member of High Council for modernization and Development of change for sustainable increase of Agricultural production	1999-2002

7-4 Membership in Scientific Associations

1. Editing chief of irrigation and drainage scientific Journal ,2006-2013
2. Member of Editing Board of Soil and Machine technical Journal
3. Member of National Committee of Irrigation and Drainage
4. Member of Committee of National Water Society
5. Member of Foundation Board of Agriculture Encyclopedia
6. Member of Hydraulic Society of Iran

8- Other Scientific and Technical Activities:

1. Representative of Agricultural Research, Education And Extention Organization of Iran in APAARI (Asia-Pasific Association of Agricultural Research Institution)
2. Permanent representative of Agricultural Research, Education and Extension Organization in the bilateral Technical Cooperation between Iran/ICARDA (International Center for agricultural Research in the Dry Areas).
3. Permanent representative of Ministry of Agricultural in The formulation Five-year Social-Economic and Educational Plan of National Agricultural Research.
4. Permanent representative of committee for the Formulation of National Report on Water Requirement Of Crops.
5. Chief- Editor of report for optimization of water use in the country and setting committee member
6. Chief-Editor of report on Integrated Agriculture and attainment of self-Sufficiency for Iran (1986)
7. Chief-Editor of report of the First National Research Plan (1989)
8. Chief-Editor of report of the second National Research Plant (1994)