

RESUME

I. PERSONAL INFORMATION :

NAME : Saeid Minaei

Date of birth : 1957

Place of birth : Tehran

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II. EDUCATIONAL RECORD

<u>Degree</u>	<u>Institution</u>	<u>Field of study</u>	<u>Graduation</u>
B. S.	Univ. of Massachusetts	Mechanical Engineering	1981
M. S.	Virginia PoliTech.	Agricultural Engineering	1984
Ph.D.	Texas A&M Univ.	Agricultural Engineering	1990
Post	Obihiro Univ.- Japan	Automation of Ag. Machinery	1996

III. ACADEMIC EXPERIENCE:

Assist. Professor since 1991

Assoc. Professor since 2005

IV. MEMBERSHIP OF SCIENTIFIC SOCIETIES:

- | Iranian Soc. of Agricultural Engineering and Mechanization
- | Iranian Soc. of Mechanical Engineers
- | American Soc. of Ag. Engineers
- | Iran National Energy Committee
- | Iranian Educational Research Association

V. REFEREE FOR JOURNAL ARTICLES SUBMITTED TO:

- 1) Scientific Journal of Agriculture
- 2) Journal of Agricultural Engineering Research
- 3) **Journal of Agricultural Science and Technology**
- 4) **Food and Bioprocess Technology**
- 5) Journal of Science and Technology of Ag. & Nat. Resources
- 6) **International Journal of Food Science and Technology**
- 7) **Agricultural Science**
- 8) Ag. Mechanization in Asia, Africa, and Latin America (AMA)

VI. RESEARCH INTERESTS:

- 1) Measurement and control systems in agriculture
- 2) Mechanical losses of agricultural products
- 3) Soil dynamics
- 4) Design, development, & evaluation of agricultural machinery

VII. PUBLICATIONS:

A- BOOK: *Fundamentals of Mechanical-Damage Based Losses of Agricultural crops.*
Jehade Daneshgahi Publications, Tehran.

B- RESEARCH PAPERS:

- Fathollahzadeh, H., mobli, H., Rajabipour, A., **Minaei, S.**, Jafari, A. and Tabatabaei, S.M.H. (2010). Average and instantaneous fuel consumption of Iranian conventional tractor with moldboard plow in tillage. APRN journal of engineering and applied science. 5(2):1-6.
- Gazor, H.R., Bassiri, A.L. and **Minaei, S.** (2009). Moisture isotherm and heat of desorption of pistachio (kaleghochi var.). International journal of food engineering. 5(4):1-11.
- Maghsoudi, H., Khoshtaghaza, M.H., and **Minaei, S.**(2010). Selected geometric characteristics, density and mechanical properties of unsplit pistachio nut. International journal of food properties. 13:394-403.
- Amiri chajian, R., Khoshtaghaza, M.H., Montaazer, GH., **Minaei, S.** Alizadeh, M.R. (2009). Estimation of head rice yield artificial neural networks for fluidized bed drying of rough rice. J.sci & technol. Agric & Natur. Resour. 13(48):285-299.
- Ahedi, A., Almassi, M., Javadi, A., **Minaei, S.** and Yasari, E. (2009). Physical properties of some canola varieties. Eco. Env. & Cons. 15(2):289-294.
- Zaki dizaji, H., **Minaei, S.**, Tavakoli hashtjin, T. and Mokhtari, M. (2009). Development of an

- ultrasonic system and evaluation of effective parameters in ultrasonic measurement of agricultural product. *Journal of Agriculture Agricultural Research*. 10(1):27-48.
- Alemi, H., Khoshtaghaza, M.H. and **Minaei, S.** (2009). Mechanical properties determination of soybean seed by quasi-static loading. *Iranian Journal of Food Science and Technology*. 6(2): 113-124.
 - Rasoli, F., sadighi, H. and **Minaei, S.** (2009). Factor affecting agriculture mechanization: a case study on sunflower seed farms in Iran. 11:39-48.
 - Mohammadzamani, D., **Minaei, S.**, Alimardani, R., Almassi, M., Rashidi, M. and Norouzpour. H. (2009). *International Journal of Agriculture and Biology*. 11 (2): 178-182.
 - Mostofi, M.R. and **Minaei, S.** (2009). Mass Flow Rate Measurement system performance on potato harvesters. 11:259-274.
 - Kermani, A. M. Tavakoli Hashjin, T. and **Minaei, S.** (2008). Mechanical tensile properties of drying rice kernels in different moisture content and temperatures. *Iranian Journal of Biosystem Engineering*. 39 (1):1-12
 - Hazbavi, E and **Minaei, S.** (2008). Determination and investigation of some physical properties of seven variety rapeseed. *Iranian Journal of Food Science and Technology*. 5 (4): 21-28.
 - Afkari sayyah, A. H. Esmailiyan, M. **Minaei, S.** and pirayesh A. (2008). The effect of mechanical loads on apple damage after storage. *Iranian Journal of Food Science and Technology*. 5 (3): 37-44.
 - Kermani, A. M. Tavakoli Hashjin, T. and **Minaei, S.** (2008). Investigation and determination of moisture content and temperature effects on the mechanical properties of brown rice. *Journal of Agricultural Engineering Research*. 9 (3): 53-74.
 - Afshari, H. **Minaei, S.** Almasi, M. and Abdolmaleki, P. (2008). Examination potato damage under impact loading. *Journal of Food Science and Technology*. 5(2): 69-80.
 - Kiani Deh kinai, M. **Minaei, S.** Maghsodi, H. and Ghasemi Varnamkhasti, M. (2008). Moisture dependent physical properties of red bean (*Phaseolus vulgaris L.*) grains. *International Agrophysics*. 22: 231-237.
 - Sadeghi, A. Tavakoli, T. chobadian, B. Khoshtaghaza, M. H. and **Minaei, S.** (2008). Bulk thermal conductivity of unhulled pistachio nuts. *Journal of Agricultural Sciences*. 18 (1): 215-227.
 - Mostofi, M. R. Godwin, R. G. O'Dogherty, M. J. **Minaei, S.** (2007). Investigations on Performance of a continuous mass flow Rate Measurement system for Potato harvesting. *Agricultural Engineering Int'l. CIGR EJournal*, vol. IX. PM 06 031.
 - **Minaei, S.** and Afkari Sayyah, A. H. (2007). Design and fabrication of a hardness tester for quality evaluation of food grain tissue. *Journal of Science and technology*. 6 (1, 2): 5-16.
 - Sheikhdavoodi, M.J. and **Minaei, S.** (2007). The effect of forward speed on motion resistance of rubber tires. *The Scientific Journal of Agriculture*. 30 (3): 29-37.
 - Gazor, H. R. and **Minaei, S.** (2008). Influence of temperature and air velocity on the canola drying process and its quality. *Journal of Agricultural Engineering Research*. 9 (1): 109-124.
 - Moshashai, K. Almasi, M. **Minaei, S.** and Borghei, A. M. (2008). Identification of sugarcane nodes using image processing and machine vision technology. *International Journal of Agricultural Research*. 1-8.
 - Rasekh, M. Firooz Abadi, B. **Minaei, S.** Afkari Sayyah, A.H. and Asghari, A. (2007). Comparison of some physical and mechanical properties of sound and sunn pest-damaged wheat kernel of saalary variety. *Iranian Journal of Food Science and Technology*. 4(3): 21-30.
 - Bagherpour, H. **Minaei, S.** and Sabbaghpour, S. H. (2007) Effect of moisture content on physical proper ties of lentil seeds. *Journal of Agricultural Science Islamic Azad University*. 13

(1): 1-9.

- Zaki Dizaji, H. and **Minaei, S.** (2007). Determination of some physical and mechanical properties of chickpea. Iranina Journal of Food science and Technology. 4 (2): 57-66.
- Aghkhani, M.H. and **Minaee, S.** (2007). Determining of cutting force of annual medics seed. Agricultural Science. 17 (4): 171-178.
- Shafiee, S. Modarres Motlagh, A. Rahmani Didar, A. and **Minaei, S.** (2008). Mechanical properties of whole apple, It's skin and flesh. Research Journal of Biological Sciences. 3 (4): 385-390.
- Sheikhdavoodi, M. J. and **Minaei, S.** (2007). The effect of for ward speed on motion resistance of rubber tires. The Scientific Journal of Agricultural. 30 (3): 22-37.
- Alizadeh, M.R. **Minaei, S.** Tavakoli Hashtjin, T. and Khoshtagaza, M.H. (2008). Effect of variety, rotational blade speed and paddy moisture content on performance of a de-owner. Journal of Agricultural Engineering Research. 8 (4): 127- 142.
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- **Minaei, S.** Alizadeh, M.R. Khoshtagaza, M. H. and Tavakoli, Timor. (2007). Effects of de-awning and misture content on husking characteristics of paddy in rubber-roll husker american-eurasian. Journal Agricultural and Environ. Sci. 2(1): 1-5.
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- Aghkhani , M. H. **Minaei, S.** and Tavakoli Hashtjin, T. (2006). Measurement and evaluation coefficient of friction of annual medic seeds. Agricultural Sciences and Technology Journal. 2 (3): 111- 117.
- Massah, J. Ghazavi, M.R. and **Minaei, S.** (2005). Effect of force control system on power and time consumption in robotic pruning machine. Journal of Agricultural Sciences, Islamic And University. 11 (3). 232-243.
- Amoodeh, M. T. Khoshtaghaza, M. H. and **Minaei, S.** (2006). Acoustic on - line grain moisture meter. Computers and Electronics in Agriculture. 52: 71-78.
- Naghavi Morad khanlo, G. Khoshtaghaza, M. H. and **Miniae, S.** (2006). Effect of ballast and speed on slippage and fuel consumption of ITM 285 Tractor. Journal of Agricultural Sciences Islamic Azad University. 12 (3): 694-701
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- Massah, J. Ghazavi, M.R. Mohammadi Moghadam, M. and **Minaei, S.** (2004) Design and development of robotic pruning machine with force control system. Modares Technical and Engineering Scienctific Research Journal. (20): 45-62.
- Afkari Sayyah, A. H. **Minaei, S.** (2005). Instrumentation design and development of an impact testing apparatus for investigation of mechanical behavior of agricultural materials and its evaluation using wheat. IJFST. 12(2): 13-27.
- Firouzi, S. **Minaei, S.** Payman, M. H. Fotohi, H. (2005). The effect of feed rate and outlet pressure on the breakage of rice kernels in a rice jet pearly. IJFST. 1(3): 31-44.
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- conditions. *The Scientific Journal of Agriculture*. 28(1): 13-27.
- Gazor, H. R. **Minaei, S.** Rostammi, M. A. (2005). Influence of temperature and thickness on pistachio drying in batch dryers. *J. Ag. Sci. Nat. Resour.* 11(4): 81-93.
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- Minaei, S.** Ahmadichenarbon, H. Eraghi, M. K. (2005). A study of the effects of various press wheels of rangeland sowing machines on Sainfoin germination and growth rate. *Iranin J. Nat. Res.* (58)1: 231-246.
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- Gazor, H. R. **Minaei, S.** Rostammi, M. A. (2005). Influence of temperature and thickness on pistachio drying in batch dryers. *Ag. Sci. Nat. Resour.* 11(4): 81-93.
- Jamshidi, B. **Minaei, S.** Sarami, Sh. (2005). Color detection system for agricultural products based on electronic vision. *Journal of Agricultural Engineering Research*. 5(21): 1-12.
- Momeni Abkharaki, D. Ghobadian, B. Hemmat, A. **Minaei, S.** (2005). Development of a semi-automatic differentiated lock system for MF-285 tractor. *J. Sci. Tech. Agric Nat. Resour.* 8(4): 213-223.
- Firouzi, S. **Minaei, S.** Payman, M. H. (2005). Study of the impact of effective parameters on performance of rice jet pearlys. *J. Ag. Sci. Tech.* 19(2): 148-159.
- Gazor, H. R. **Minaei, S.** (2005). Influence of temperature and air velocity on drying time and quality parameters of pistachio (*Pistacia vera L.*) Drying Technology. 23: 2463-2475.
- Afkari sayyah, A. H. and **Minaei, S.** (2004). An investigation of mechanical and rheological. *Iranian J. Ag. Sci.* Vol. 35(3): 561-571.
- Mashhadi meighani, H. Almasi, M. Borghaie, A, M. **Minaei, S.** (2004). Using rapeseed methyl ester (RME) as a fuel in a compression ignition engine. *Journal of Agricultural Sciences*. 10(2): 39-46.
- Firouzi, S. **Minaei, S.** Payman, M. H. Fotohi, H. (2004). The effect of feed rate and outlet pressure on the breakage of rice kernels in a rice jet pearly. *IJFST*. 1(3): 31-44.
- Afkari sayyah, A. H. and **Minaei, S.** (2004). Behavior of wheat kernels under quasi-static loading and its relation to grain hardness. *J. Ag. Sci. Tech.* 6: 11-19.
- Gazor, H. R. **Minaei, S.** Bassiri, A. R. (2003). Influence of changes in temperature, Air velocity and layer thickness on drying of Kalehghouchi pistachio. 9(1): 89-103.
- Houshyani, B. Araqi, M. H. **Minaei, S.** (2002). Evaluatin of the effects of rangeland seedling planter parameters on planting attributes of Atriplex. *Iranian J. of Nat. Resour.* 55(2): 283-291.
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- Mansouri, Y. **Minaei, S.** Sheikh davoudi, M. J. (2002): Design and development of a rotary tiller as attachment to Ashtad two-wheel tractor. *Journal of Agricultural Sciences*. 8(2): 33-53.
- Aghkhani, M. H. and **Minaei, S.** (2002). Investigation of physical properties of annual Medics seeds and determination of optimum threshing clearance. *J. Ag. Sci. & Nat. Resour.* 8(4) : 57-71.
- Gazor, H. R. and **Minaei, S.** (2002). Influence of temperature and air velocity on drying time and quality parameters of pistachio. *Journal of Agrincultural Engineering Research*. 3(11): 73-90.
- Aghkhani, M. A. and **Minaei, S.** (2002). Investigation of physical properties of annual medics and determination of optimum threshing clearance. *J. Ag. Sci. Nat. Resour.* 8(4): 57-71.
- Khoshhal, M. and **Minaei, S.** (2001). Determination of the relationships between the effective

- parameters in uninterrupted paddy drying proces J. Ag. Sci. Nat. Resour. 8(3): 123-133.
- Sakenian Dehkordi, N. Ghobadian, B. **Minaei, S.** (2001). Effective parameters in water conservation using a modified subsoiler. J. Sci. and Tech. Ag. and Nat. Resour. 5(2): 211-224.
- Kamgar, S. and **Minaei, S.** (2001). Evaluaton of the influence of a few effective parameters on soil compaction caused by disk and moldboard plows. Journal of Agricultural Sciences. 6(4): 5-22.
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- Minaei, S.** Rahimzadeh, R. Sadeghi, E. (2000). And improvement of Iranian row planter for placement of seed and fertilizer at various depths. Journal of Soil and Water Sci. 14(2):198-210

- **Minaei, S.** Sadeghi, M. and sharifi, J. (2000). Testing and evaluation of a rotary disk harrow. Agricultural Science. 10(4): 23-31.

Peyman, M. H. Tavakkoli Hashtgin, T. **Minaei, S.** (2000). Optimum roll clearance if rubber-roll huller for processing the common varieties of Gilan paddy. Journal of Agricultural Sciences. 5(20): 37-48.

Minaei, S. and Alizadeh, M. R. (2000). Design and development of auger drill for attachment to two wheel tractors. Agricultural Science and Technology. 14(1): 19-26.

Minaei, S. and Aghkhani, M. H. (1999). Design and development of driven disk harrow. Modarras Agricultural Science. 1(1): 36-44.

Burger, A.J. Perumpral, J. A. Kreh, R. E. Torbert, J. L. **Minaei, S.** (1985). Impact of tracked and rubber-tired tractors on a forest soil. Transactions of the ASAE. 85(3): 369-373.

Burger, J. A. Kreh, R. E. **Minaei, S.** Perumpral, J. V. Torbert, J. L. (1984). Tires and tracks: How they compare in the forest. Agricultural engineering. 65(2): 14-18.

VIII. PAPERS PRESENTED IN CONFERENCES:

Mostofi, M. R. Godwin, R. G. O'Dogherty, M. J. **Minaei, S.** (2006). Performance evaluation of a continuous mass flow Rate Measurement system for root crop harvesting. Agricultural Engineering for a Better world. Bonn.

Minaei, S. Zare, D. Mohamad zadeh, M. Khoshtagaza, M. H. (2006). Development of computer simulation software for drying of paddy in deep-bed batch dryer. Agricultural Engineering for a Better world. Bonn.

Bakhoda, H. Almassi, M. **Minaei, S.** Nasirian, N. (2006). Studying Suitability of using Camelina Sativa as Biodiesel. Agricultural Engineering for a Better world. Bonn.

Shahi, T. Tvakoli, T. **Minaei, S.** Zaki dizagi, H. (2006). Development and Testing of Alfalfa chopper for small farms. 4th National Congress on Agricultural machinery Engineering and Mechanization. Tabriz.

Sheykh davudi, M. **Minaei, S.** effect of forward (2006). 4th national congress on agricultural machinery engineering and mechanization. Tabriz.

Rasoli, F. Sedeghi, h. **Minaei, S.** (2006). Assessing Agricultural Mechanization coefficient and sunflower farmers Technical knowledge on agricultural mechanization (A case study in Qom province, Iran) 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

Eyvani, A. **Minaei, S.** Hasani, D. (2006). Major spectrum of walnut acoustical response to a non-destructive impact. 4th National Congress on Agricultural Machinery Engineering and

Mechanization. Tabriz.

Eyvani, A. **Minaei, S.** Measurement of walnut by standing waves of a helmholtz acoustical resonator. (2006). 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

Nikbkht, A **Minaei, S.** Ghobadian, B Zakidizaji, H(2006). Study of soil mechanical parameters using horizontal sensor. 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

MemarDactjerdi, R. **Minaei, S.** MostofiSarekari, M,R. (2006). Design, development and testing of an instrument for continuous measurement of soil mechanical strength. 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

Sadeghi, M. Khoshtaghaza, M,H. **Minaei, S.** estimation of antiparticle force between tea particles in vibrated beds (2006). 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

Momeni, D. Ghobadian, B. Hmat, A. **Minaei, S.** optimizing of differential lock system for Massey Ferguson 285 (2006). 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

Momeni, D. Ghobadian, B. Hmat, A **Minaei, S.** (2006). Effects of differential lock on wheel slip in MF-285 Tractor 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

Vahedi, A. **Minaei, S.** (2006). comparison rice production in two methods (conventional method and mechanized). 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

Mohamadi, A. Almassi, M. Borgheei, A **Minaei, S.** (2006). Qualitative and quantitative study of factories manufacturing agricultural equipments in Isfahan province. 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

Nasirian, N. Almassi, M. **Minaei, S.** Bakhoda, H. (2006). Energy efficiency study in sugarcane production industry, south of Khuzestan province, Iran. 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

Zakidizagi, H. Amirichayjan, R. **Minaei, S.** (2006). Coma ration of artificial neural network approach, statistical models and elastic behavior model for prediction of apparent modulus of elasticity for chickpea kernel. 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

Msah, J. Ghazavi, M, R. Mohamadimoghadam, M. **Minaei, S.** (2006). Effect of force control system oc power and time consumption in robotic pruning machine. 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

Bandaei, M. **Minaei, S.** (2006). Utilization of GPS guidance-aided system in tractor. 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

Masah, J. Ghazavi, M,R. Mohamadimoghadam, M. **Minaei, S.** (2006). Design and development of robotic pruning machine with force control system. 4th National Congress on Agricultural Machinery Engineering and Mechanization. Tabriz.

Kasraei, M. **Minei, S.** (2006). Study of wear at different of moldboard plow shares. 4th national congress on agricultural machinery engineering and mechanization. Tabrez.

Afkari, A. H. and **Minaei, S.** (2003). Using mechanical methods for determining quality of weat blend. The proceeding of the first national symposium on losses of agricultural products, Tehran.

Mansoori, H. and **Minaei, s.** (2003). Evaluation of machine parameters affect on wheat Foss at jhonedeer combine the proceeding of the first national symposium on loss of agricultural

products. Tehran.

Zakeidizaji, H. **Minaei, S.** and Afkari, A. H. (2003). Determination of apparent modulus of elasticity and development of elastic behavior model for chickpea seeds. The proceeding of the first national symposium on losses of agricultural proudest. Tehran.

Minaei, S. Roohi, A. R. and Alizade, M. R. (2003). Affect of rice crop parameters and dryers on paddy processing loss and toughness rate. The proceeding of the first national symposium on losses of agricultural proudest. Tehran.

Minaei, S. Khosthagaza M. H. and Afkari, A. H. (2003). Determination of elastic and viscoelastic model of wheat grain quality identification. The proceeding of the first national symposium on losses of agricultural proudest. Tehran.

Minaei, S. Zakeidizaji, H. and Afkari, A. H. (2003). Determination of chickpea physical and mechanical properties as related to quantitatively losses of agricultural products Tehran.

Afkari, A. H. Sahari, M. A. and **Minaei, S.** (2003). Determination of kernel mechanical properties for predicting milling quality by using mechanical test. 14th national congress of food industry.

Zakeidizaji, H. and **Minaei, S.** (2003). Determination of some biophysical properties of chickpea kernel as related to processing and transport 14th national congress of food industry. Tehran.

Khoshhal, M. and Minaei, S. (2003). optimization of energy consumption at paddy during by using of thin layer. The proceeding of the fourth national energy congress.

Zakeidizaji, H. **Minaei, S.** and Afkari, A. H. (2003). Affect of agricultural machines parameters on soil compact. First student conference on agricultural machinery engineering. Uremia (231-236).

JamShidi, B. **Minaei, S.** and sarami, SH. (2003).optoelectronic agricultural crops color sorting system. First student conference on agricultural machinery engineering. Uremia. (25-29).

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IX. RESEARCH PROJECTS COMPLETED:

Loss reduction and energy conservation in paddy drying process - Sponsored by the National Scientific Research Council.

Design and development of hydraulic power transmission system for combine platform

-Sponsored by Tarbiat Modarres Univ.

Improvement and development of equipment for increasing yield and quality of agricultural crops - Sponsored by the Ministry of Industry and Mines.

Investigation of paddy processing losses in Gilan province and ways of its reduction - Sponsored by the Ministry of Reconstruction Jehad.

Design and development of hydraulic auger drill for two-wheel tractors - Ministry of Agriculture.

Reduction of wheat losses from production to consumption - Sponsored by the National Scientific Research Council.

Investigation of effective parameters in design of pistachio dryers at 60-95°C temps - Sponsored by the ministry of Industry and Mines.

XVI. AWARDS AND HONORS :

1978 STCC Award for Engineering Excellence, U.S.

1995 Tarbiat Modarres Univ. Outstanding Professor of the year.

2005 Tarbiat Modarres Univ. Distinguished Researcher of the year.

IV. ACADEMIC AND RESEARCH POSITIONS HELD:

- 1- Head of the Center of Excellence for Recycling & Loss Reduction of Strategic Ag. Crops.
- 2- Associate Dean of Agriculture, Tarbiat Modarres Univ.
- 3- Chairman, Dept. of Agricultural Machinery Eng.
- 4- Vice president, Iranian Society of Ag. Engineering & Mechanization
- 5- Managing editor, Modarres Journal of Agricultural Sciences
- 6- Vice president, Iranian Committee for development of Standards for Agricultural Machinery
- 7- Member, Technical Committee of the Iranian Agricultural Engineering Research Institute
- 8- Member, Research council - Parks and Greenery Organization of Tehran Municipality
- 9- Advisor to the Scholarships Administration, Ministry of Higher Education