Name & Surname: Hassan Masoudi

Date of Birth: 1979

Address, Suburb, State, Postcode: Department of Biosystems Engineering, Faculty of Agriculture, Shahid Chamran University of Ahvaz, Ahvaz, Iran

Postal code: 61357-43311

Phone/Mobile Number: 0098 61 33364057

E-mail address: hmasoudi@scu.ac.ir

PROFESSIONAL PROFILE:

Assistant Professor of Biosystems Engineering in Shahid Chamran University of Ahvaz, IRAN.

EDUCATION BACKGROUND:

Ph.D.:

Mechanic of Agricultural Machinery Engineering, University of Tehran, Karaj, Iran. (2004-2010).

Thesis Title:

"Design and Implementation of an Automatic Guidance System on a Small Vehicle for Greenhouse Spraying"

M.Sc.:

Mechanic of Agricultural Machinery Engineering, University of Tehran, Iran. (2002-2004).

Thesis Title:

"Investigation of mechanical properties variations of three export cultivars of apples during the storage"

B.Sc.:

Agricultural Machinery Engineering, Ferdowsi University of Mashhad, Iran. (1998-2002).

Final project title:

"Investigation of chickpea mechanization at dry farming"

TEACHING AND TRAINING EXPERIENCE:

Undergraduate Courses:

- Control and Measurement Instruments
- Computer Programming (C, C++, VC++)
- Design of Machine Elements (I, II)
- Biophysical Properties of Agricultural Products
- Processing Machines of Agricultural Products
- Mechanic of Tractor

Graduate Courses:

- Automatic Control Systems
- Artificial Intelligence

HONOURS AND AWARDS:

- The best Graduated Student, The Celebrating Ceremony of Superior Elites and Talents of North Khorasan Province. August 2013, Bojnurd, Iran.
- Selected Young Person, The Congratulatory Meeting of Young Elites of North Khorasan Province. 5 February 2011, Bojnourd, Iran.
- First Grade in Ph.D. of Mechanic of Agricultural Machinery Engineering, University of Tehran, Iran, with average of 19.31 from 20 (2010).
- First Grade in Ph.D. Entrance Exam of Mechanic of Agricultural Machinery Engineering, University of Tehran, Iran (2004).
- Second Grade in M.Sc. of Mechanic of Agricultural Machinery Engineering, University of Tehran, Iran, with average of 17.97 from 20 (2004).
- First Grade in B.Sc. of Agricultural Machinery Engineering, Ferdowsi University of Mashhad, Iran, with average of 16.52 from 20 (2002).

INTERESTS AND RESEACH FIELDS:

- Robotics in Agriculture

- Agricultural Automation

- Precision/Smart Farming

RESARCH ACTIVITIES:

PUBLICATIONS:

1. Masoudi, H., Rohani, A. (2021). Citrus Fruits Grading based on Volume and Mass only by Projected Area using ANFIS and GPR Models. Fruits, -. *(JCR)*.
2. Hosseini, S.A., Masoudi, H., Sajadiye, S.M., Abdanan Mehdizadeh, S. (2021). Nitrogen Status Estimation in Sugarcane Fields from Aerial Digital Images using Artificial Neural Network Modelling. Environmental Engineering and Management Journal, 20(5), -. *(JCR)*.
3. Masoudi, H., Rezaei, A., Zaki Dizaji, H., Khorasani Ferdavani, M. (2021). Development of an Electronic System for Determining Vertical Loads on the Rear Axle of Cereal Combine Harvesters in Motion. *Journal of Agricultural Machinery*, (), -. doi: 10.22067/jam.2021.58832.0. (In Persian with English Abstract).
4. Masoudi, H., Mohamadi, A., Khorasani Ferdavani, M.E. (2021). Development of an Electronic System for Obstacle Detection in Front of Ttactor using 2D Laser Scanner. *Journal of Researches in Mechanics of Agricultural Machinery*, 10(2), -. (In Persian with English Abstract).
5. Masoudi, H., Asadi, S., Akbarizadeh, G. (2020). Development and Evaluation of an Image Processing Algorithm for Gradation of White Sugar Crystals. *Innovative Food Technologies*, 8(1), 97-110. doi: 10.22104/jift.2020.4208.1975. (In Persian with English Abstract).
6. Masoudi, H., Tavakolzadeh, A., Alemzadeh Ansari, N. (2020). Design and Development of a Fuzzy Logic Controller in Greenhouse and Evaluation of Its Performance by Basil Planting. *Journal of Science and Technology of Greenhouse Culture*, 11(2), 15-28. (In Persian with English Abstract).
7. Seidi, R., Khorasani Ferdavani, M., Sheikhdavoodi, M., Masoudi, H. (2020). Evaluation of Engine Fuel Consumption with Mechanical and Intelligent Electronic Control System in Sugarcane 7000 Harvester. *Agricultural Mechanization and Systems Research*, 21(75), 23-32. doi: 10.22092/erams.2019.122236.1263. (In Persian with English Abstract).
8. Hosseini, S.A., Masoudi, H., Sajjadiyeh, S.M., Abdanan Mehdizadeh, S. (2019). The determination of Nitrogen Content and Chlorophyll of Sugarcane Crop using Regression Modelling from Color Indices of Aerial Digital Images. *Journal of Agricultural Engineering*, 42(2), 83-98. (In Persian with English Abstract).
9. Masoudi, H., Rohani, A. (2017). Determination of Physical Characteristics and Regression Modeling of Orange (Dezful Local Variety) Mass and Volume. *Journal of Biosystems Engineering*, 6(2), 35-43. (In Persian with English Abstract).
10. Masoudi, H. (2017). Applications of Control Engineering in Greenhouses, Part 1: Greenhouse Robots. *Journal of Industrial Control and Measuring Instruments*, 1(1), 9-18. (In Persian with English Abstract).
11. Ramezani, H., Masoudi, H., ZakiDizaji, H., Akbarizadeh, G.R. (2017). Design and Implementation of a Machine Vision System for Standing Human Detection in Front of Tractor. *Journal of Researches in Mechanics of Agricultural Machinery*, 6(2), 9-18. (In Persian with English Abstract).

12. Seidi, R., Khorasani-Ferdavani, M.E., Sheikh-Davoodi M.J., Masoudi, H. (2017). Evaluating Reaction Time and Manneverability of Forward Speed Control System in Sugarcane Harvester Series 7000 under Mechanical and Electronical Controls Conditions. *Agricultural Mechanization and Systems Research*, 18(68), 107-118. (In Persian with English Abstract).

13. Masoudi, H. (2016). Methods for Producing Electrical Energy from Sea Water Waves. *Journal of Renewable and New Energy*, 3(2), 9-14. (In Persian with English Abstract).

14. Ramezani, H., ZakiDizaji, H., Masoudi, H., Akbarizadeh, G.R. (2016). A New DSWTS Algorithm for Real-Time Pedestrian Detection in Autonomous Agricultural Tractors as a Computer Vision System. *Measurement*, 93, 26-134. (JCR).

15. Masoudi, H. (2016). Robotics; a New Field for Innovation and Entrepreneurshi Development in the Animal Husbandry Sector. *Journal of Entrepreneurship in Agriculture*, 3(3), 19-38. (In Persian with English Abstract).

16. Masoudi, H., Rohani, A. (2016). Mass and Volume Prediction of Orange Fruit (Dezful Local Variety) Using MLP Neural Networks. *Journal of Agricultural Engineering*, 39(2), 133-142. (In Persian with English Abstract).

17. Maghsoudi, H., Minaei, S., Ghobadian, B., Masoudi, H. (2015). Ultrasonic Sensing of Pistachio Canopy for Low-Volume Precision Spraying. *Computers and Electronics in Agriculture*, 112, 149-160. doi: 10.1016/j.compag.2014.12.015. (JCR).

18. Maghsoudi, H., Minaei, S., Ghobadian, B., Masoudi, H. (2015). Article Title Field and Laboratory Investigation of USS3 Ultrasonic Sensors Capability for Non-contact Measurement of Pistachio Canopy Structure. *Journal of Agricultural Machinery*, 5(1), 10-24. (In Persian with English Abstract).

19. Rohani, A., Ghaffari, H., Felehgari, R., Mohammadi-Ghermezgholi, K, Masoudi, H. (2014). Prediction of Combine Economic Life Based on Repair and Maintenance Costs Model. *Journal of Agricultural Machinery*, 4(2), 360-367. (In Persian with English Abstract).

20. Rohani, A., Masoudi, H. (2014). Economic Life Prediction of Two-Wheel Drive Tractor Using Cumulative Cost Model Compared with Cost Minimization Model. *Journal of Agricultural Engineering*, 36(2), 59-68. (In Persian with English Abstract).

21. Maghsoudi, H., Minaei, S., Ghobadian, B., Masoudi, H. (2013). Agricultural Sustainable Development by Variable-rate Spraying. *International Journal of Agronomy and Plant Production*, 4(12): 3455-3462.

22. Masoudi, H., Omid, M., Alimardani, R., Mohtasebi, S.S. (2012). Investigation of Fuzzy Logic Controller's Performance in Guiding a Mobile Robot inside Greenhouse. *Journal of Biosystems Engineering*, 1(1), 51-63. (In Persian with English Abstract).

23. Masoudi, H., Alimardani, R., Omid, M., Mohtasebi, S.S., Noguchi, N. (2012). Determination of Ultrasonic Sensor Ability for Use as Guidance Sensors of Mobile Robots. *Sensors and Materials*, 24(3), 115–126. (JCR).

24. Masoudi, H., Alimardani, R., Omid, M., Mohtasebi, S.S., Bagheri Shooraki, S. (2010). Design, Fabrication and Evaluation of a Mobile Robot for Greenhouse Spraying. *Journal of Agricultural Engineering Research*, 12(2), 87-100. (in Persian with English Abstract).

25. Masoudi, H., Omid, M., Alimardani, R., Mohtasebi, S.S., Bagheri Shooraki, S. (2010). Laboratory Study of Ultrasonic Sensors to Determine Position and Orientation of Mobile Robots for Greenhouse Applications. *Iranian Journal of Biosystem Engineering*, (41)1, 69-79. (in Persian with English Abstract).

26. Masoudi, H., Tabatabaeefar, A., Borghaee, A.M. (2008). Investigation on Mechanical Properties of Apples during Storage using Penetration Test. *International Journal of Agriculture and Biology*, 10(1), 69-72. (JCR).

27. Masoudi, H., Tabatabaeefar, A., Borghaee, A.M. (2007). Determination of Storage Effect on Mechanical Properties of Apples using the Uniaxial Compression Test. *Canadian Biosystems Engineering*, 49, 3.29-3.33.
28. Masoudi, H., Tabatabaeefar, A., Borghei, A.M., Shahbeg, M.A. (2006). Determination of Mechanical Properties of Three Export Varieties of Apple after Fve Months Storage. *Journal of Agricultural Engineering Research*, 7(27), 61-74. (in Persian with English Abstract).
29. Masoudi, H., Tabatabaeefar, A., Borghei, A.M., Shahbeg, M.A. (2005). Determination and Comparison of Physical and Mechanical Properties of Three Export Varieties of Apple. *Journal of Agricultural Science*, 11(3), 215-231. (in Persian with English Abstract).

CONFERENCE PRESENTATIONS:

1. Shanesazan, M., Masoudi, H., Zaki Dizaji, H., Abdanan Mehdizadeh, S. (2021). Estimation of Human-Tractor Distance by Stereo Image Processing. *The First Conference on Applied Research in Electrical Engineering*, January 27, 2021, Shahid Chamran University of Ahvaz, Ahvaz, Iran. (in Persian).
2. Shanesazan, M., Masoudi, H., Zaki Dizaji, H., Abdanan Mehdizadeh, S. (2021). Development of image processing algorithm for human detection in field conditions. *The First Conference on Applied Research in Electrical Engineering*, January 27, 2021, Shahid Chamran University of Ahvaz, Ahvaz, Iran. (in Persian).
3. Production from Air Humidity. *The 8th National Conference on Civil Engineering, Architecture and Sustainable Urban Development of Iran*, November 5, 2020, Tehran, Iran. (in Persian).
4. Shamsi, S., Masoudi, H., Zaki Dizaji, H. (2019). A Review of Methods for Determining the Size of Sugar Crystals in Baking Solution with Image Processing. *3rd International and 26th National Congress of Food Science and Technology of Iran*. September 17-19, 2019. Tarbiat Modares University, Tehran, Iran. (in Persian).
5. Masoudi, H., Asadi, S.M., Akbarizadeh, Gh. (2019). Presenting an Image Processing Algorithm to Determine the Sugar Crystals Size in Massecuite. *3rd International and 26th National Congress of Food Science and Technology of Iran*. September 17-19, 2019. Tarbiat Modares University, Tehran, Iran. (in Persian).
6. Shanesazan, M., Masoudi, H. (2019). Presenting an Image Processing Algorithm for Human Detection in Various Gestures to Use in Agricultural Vehicles. *The First National Conference on Agricultural and Environmental Sciences in Iran*. January 30, 2019, Agricultural Sciences and Natural Resources University of Khuzestan, Mollasani, Khuzestan, Iran. (in Persian).
7. Shanesazan, M., Masoudi, H. (2019). A Review of Distance Estimation Methods using Image Processing. *The First National Conference on Agricultural and Environmental Sciences in Iran*. January 30, 2019, Agricultural Sciences and Natural Resources University of Khuzestan, Mollasani, Khuzestan, Iran. (in Persian).
8. Masoudi, H, Lotfi Gravand, A., Hosseini, S.A. (2018). Preparation of Nitrogen Status Map in Sugarcane Fields using ArcGIS Software. *11th National Congress on Biosystem Engineering and Mechanization*, 3-5 September 2018, Bu-Ali Sina University, Hamedan, Iran. (in Persian).
9. Hosseini, S.A., Masoudi, H., Sajadie, S.M., Abdanan Mehdizadeh, S. (2018). Determination of Nitrogen and Chlorophyll Content of Sugarcane Crop from Color Indexes by Regression Modelling. *11th National Congress on Biosystem Engineering and Mechanization*, 3-5 September 2018, Bu-Ali Sina University, Hamedan, Iran. (in Persian).

10. Hosseini, S.A., Masoudi, H., Sajadie, S.M., Abdanan Mehdizadeh, S. (2018). Estimation of Nitrogen Status in Sugarcane Fields from Aerial Digital Images using Artificial Neural Networks.*11th National Congress on Biosystem Engineering and Mechanization*, 3-5 September 2018, Bu-Ali Sina University, Hamedan, Iran. (in Persian).

11. Jamshidzadeh, M., Alamzadeh Ansari, N., Masoudi, H., Boroomand Nasab, S. (2017). Water Use Efficiency in Two Hydroponics Systems for Greenhouse Cucumber Production. *1st International Conference and 10th National Horticultural Sciences Congress of Iran*. 4-7 September 2017, Tarbiat Modares University, Tehran, Iran. (in Persian).

12. Jamshidzadeh, M., Alamzadeh Ansari, N., Masoudi, H., Boroomand Nasab, S. (2017). The Effect of Two Hydroponic Systems on the Growth and Development Cultivars of Greenhouse Cucumber. *1st International Conference and 10th National Horticultural Sciences Congress of Iran*. 4-7 September 2017, Tarbiat Modares University, Tehran, Iran. (in Persian).

13. Masoudi H., Rezaei A., ZakiDizaji H., Khorasani M.E. (2017). Fabrication and Evaluation of an Electronic System for Determining of Loads on the Rear Axle of Cereals Combine Harvesters. *The 13th International Congress on Mechanization and Energy in Agriculture (AGME2017)*. 13-15 September 2017, Izmir. Turkey.

14. Masoudi H., Rohani, A. (2017). Comparing the Performance of Regression and ANN Modeling in Orange Mass and Volume Estimation. *The 13th International Congress on Mechanization and Energy in Agriculture (AGME2017)*. 13-15 September 2017, Izmir. Turkey.

15. Asadi, S.M., Masoudi H., Akbarizadeh, G.R. (2017). Design and Implementation a Machine Vision System for Determining the Size of White Sugar Crystals. *2nd National Conference on Harvest and Postharvest Novel Technologies of Agricultural Products*. 11-12 October 2017, Khorasan Razavi Agricultural and Natural Resources Research and Education Center, Mashhad, Iran. (in Persian with English Abstract).

16. Masoudi, H., Asadi, S.M. (2017). A Review on Sugar Crystal Size Determination Methods. 2nd *National Conference on Harvest and Postharvest Novel Technologies of Agricultural Products*. 11-12 October 2017, Khorasan Razavi Agricultural and Natural Resources Research and Education Center, Mashhad, Iran. (in Persian with English Abstract).

17. Masoudi, H., Hosseini, S.A., Sajjadiyeh, S.M. (2017). Unmanned Aerial Imaging Systems and Their Agricultural Applications. *1st National Conference for Agriculture, Natural Resources and Veterinary*. 11 May 2017, Ardakan University, Ardakan, Iran. (in Persian with English Abstract).

18. Masoudi, H., Hosseini, S.A., Sajjadiyeh, S.M. (2017). Measuring Nitrogen of Field Crops: Methods and Equipment. *1st National Conference for Agriculture, Natural Resources and Veterinary*. 11 May 2017, Ardakan University, Ardakan, Iran. (in Persian with English Abstract).

19. Masoudi, H., Jalili Beshagh, R. (2016). Robotics in Animal Husbandry. *10th National Congress on Biosystems Engineering and Mechanization*. 30-31 August 2016, Mashhad, Iran. (in Persian with English Abstract).

20. Ramezani, H., Masoudi, H., ZakiDizaji, H., Akbarizadeh, G.R. (2016). Real time Identification and Tracking of Human in Front of the Tractor using the Combination of Proposed Method with two methods, HOG and Cascade. *2nd National Conference of Mechanization and New Technologies in Agriculture*. 12-13 May 2016, Ramin Agriculture and Natural Resources University of Khuzestan, Mollasani, Iran. (in Persian with English Abstract).

21. Masoudi, H. (2016). Robotics in Greenhouses. *9th Congress of Iranian Horticultural Science*. 25-28 January 2016, Shahid Chamran University of Ahvaz, Iran. (in Persian with English Abstract)

22. Seidi, R., Khorasani Ferdavani, M.E., Sheikhdavoodi, M.J., Masoudi, H. (2015). Design and Fabrication of Electronic Control System for Forward Velocity of Sugarcane Harvester. 2nd

National Conference on Development of Civil Engineering, Architecture, Electricity and Mechanical in Iran, 17 December 2015, Gorgan, Iran. (in Persian with English Abstract).

23. Seidi, R., Khorasani Ferdavani, M.E., Sheikhdavoodi, M.J., Masoudi, H. (2015). Design and Fabrication of Electronic Control System for Engine Speed of Sugarcane Harvester. *2nd National Conference on Development of Civil Engineering, Architecture, Electricity and Mechanical in Iran*, 17 December 2015, Gorgan, Iran. (in Persian with English Abstract).

24. Ramezani, H., Masoudi, H., Zakidizaji, H. (2015). A Review on Technologies Used for Automatic Guidance of Agricultural Vehicles. *1ST National Conference on New Ideas in Computer Engineering*, 3 September 2015, Islamic Azad University, Shahrekord Branch, Iran. (in Persian with English Abstract).

25. Ramezani, H., Zakidizaji, H., Masoudi, H., Akbarizadeh, G.R. (2015). Human Detection in Road Images by Image Processing to Use in Agricultural Vehicles. *7th National Conference of Electrical and Electronics Engineering in Iran*, 19-20 August 2015, Islamic Azad University, Gonabad Branch, Iran. (in Persian with English Abstract).

26. Masoudi, H., Rohani, A. (2014). Design and Implementation of Software for Physical Characteristics Determination of Agricultural Products. *The 8th National Congress on Agricultural Machinery Engineering (Biosystem) and Mechanization*, 29-31 January 2014, Mashhad, Iran. (in Persian with English Abstract).

27. Masoudi, H., Khorasani Ferdavani, M.E. (2014). Analysis of Stress and Strain on Different Subsoilers Using ANSYS Software. *The 8th National Congress on Agricultural Machinery Engineering (Biosystem) and Mechanization*, 29-31 January 2014, Mashhad, Iran. (in Persian with English Abstract).

28. Masoudi, H., Khorasani Ferdavani, M.E. (2012). Tractor three angles measurement system using gyroscope. *7th National Congress on Agricultural Machinery Engineering and Mechanization, 5-7 September 2012, Shiraz University, Iran*. (in Persian with English Abstract).

29. Masoudi, H., Alimardani, R., Omid, M., Mohtasebi, S.S., Noguchi, N. (2011). An Autonomous Mobile Robot for Greenhouse Applications. *CIGR International Symposium*, 19-23 September 2011, Tokyo, Japan.

30. Masoudi, H., Rohani, A. (2012). Design of an Automatic Feeding System for Livestock. *7th National Congress on Agricultural Machinery Engineering and Mechanization*, 5-7 September 2012, Shiraz University, Iran. (in Persian with English Abstract).

31. Masoudi, H., Omid, M., Alimardani, R., Mohtasebi, S.S., Bagheri Shooraki, S. (2010). Comparison of Fuzzy Logic and Proportional Controllers' Performance in Guiding of a Greenhouse Applications Robot. *Proceeding of 6th national congress on Iranian agricultural mechanization and machinery engineering*. 15-16 September 2010. University of Tehran, Karaj, Iran. (in Persian with English Abstract).

32. Masoudi, H., Alimardani, R., Omid, M., Mohtasebi, S.S., Bagheri Shooraki, S. (2010). Design, Fabrication and Evaluation of a Mobile Robot for Greenhouse Spraying. *Proceeding of 6th national congress on Iranian agricultural mechanization and machinery engineering*. 15-16 September 2010. University of Tehran, Karaj, Iran. (in Persian with English Abstract).

33. Masoudi, H., Alimardani, R., Omid, M., Mohtasebi, S.S. (2010). Comparison of Fuzzy Logic and Classic Controllers' Performance in Guiding of a Greenhouse Applications Robot. *CIGR XVIIth World Congress, Section VII: Information Systems*. June 13 to 17, Québec City, Canada.

34. Masoudi, H., Omid, M., Alimardani, R., Mohtasebi, S.S., Noguchi, N., Ishii, K. (2010). Design, Fabrication and Evaluation of a Mobile Robot for Greenhouse Spraying. *8th World Congress on Computers in Agriculture (WCCA)*. June 13 to 17, Québec City, Canada.

35. Masoudi H., Noguchi N., Omid M., Alimardani R., Mohtasebi S.S., Ishii K., Shooraki, S.B. (2009). Evaluation of Ultrasonic Sensors as Guidance Sensors for Greenhouse Applications Robots. *IFAC Bio-Robotics IV Workshop*. September 10 and 11, 2009. University of Illinois at Urbana-Champaign. Illinois, USA.
36. Masoudi H., Alimardani R., Omid M., Mohtasebi S.S., Noguchi N., Ishii K., Shooraki, S.B. (2009). Using from Ultrasonic Sensors for Getting Heading and Lateral eErrors of a Mobile Robot for Greenhouse Applications. *XXXIII CIOSTA & CIGR Section V Conference*. Mediterranea University of Reggio Calabria - Dept. Stafa, 17-19 June 2009, Italy.
37. Masoudi, H., Tabatabaeefar, A., Borghaee, A.M. (2006). Investigation of Mechanical Properties Variation of Apples During the Storage by Penetration Test. *The 3rd International Symposium on Machinery and Mechatronics for Agricultural and Biosystems Engineering (ISMAB)*. November 23-25, 2006. COEX, Seoul, Korea.
38. Masoudi, H., Tabatabaeefar, A., Borgheei, A.M. (2005). Determination of Storage Effect on Mechanical Properties of Apples by Uniaxial Tests. *International congress on information technology in agriculture, food and environment (ITAFE '05)*. October 12-14, 2005. Adna, Turkey.
39. Masoudi, H., Tabatabaeefar, A., Borgheei, A.M. (2005). Mechanical Properties of Stored Apples (Uniaxial Test), *9th International Conference on Agrophysics, August*. 29-31, 2005. Lublin, Poland.
40. Masoudi, H., Tabatabaeefar, A., Borgheei, A.M., Shahbek, M.A. (2005). Investigation of Mechanical Properties Variation of Apples during the Storage *with Uniaxial Test. The EFITA/WCCA 2005 joint conference. July 25-28, 2005*. Vila Real, Portugal.
41. Masoudi, H., Tabatabaeefar, A., Borgheei, A.M., Shahbek, M.A. (2004). Comparison of Puncture and Compression Test Methods on Determination of Mechanical Properties of Three Export Varieties of Apple. *2004 CIGR International Conference*. Oct. 11-14, 2004. Beijing, China.
42. Masoudi, H., Tabatabaeefar, A., Borghei, A.M., Shahbeg, M.A. (2004). Some of Mechanical Properties of Three Export Varieties of Apple. *Proceeding of third national congress on Iranian agricultural mechanization and machinery engineering*. 08/22/2004-08/24/2004- Shahid Bahonar University of Kerman, Iran. Page: 110. (in Persian with English Abstract).
43. Masoudi, H. (2004). Water Waves Energy and the Methods of *Operation. The first Iranian Ecoenergy Conference*. September 2004. Urmia, Iran. (in Persian with English Abstract).
44. Masoudi, H. (2003). Comparison of Conventional and Mechanized Planting of Chickpea in Dryland Farming. *First conference of agricultural machinery engineering students of Iran*. May 2003. Urmia, Iran. (in Persian with English Abstract).

RESEARCH PROJECTS:

Masoudi, H. (2021). Design and Implementation of Orange Mass and Volume Determination System by Ultrasonic Sensors. Deputy of Research and Technology, Shahid Chamran University of Ahvaz, Iran. Project number: 1263.

PATENTS:

Patent title: Design, Fabrication and Evaluation of a Mobile Robot for Doing Various Missions inside the Greenhouse. Registration number: 62647, Registration date: 30/12/2009, Tehran, Iran.

PROFESSIONAL MEMBERSHIPS:

Membership:

- Member of National Elites Foundation of Iran.
- Member of Iranian Society of Mechanical Engineers.
- Member of Iranian Society of Agricultural Machinery and Mechanization Engineers.
- Editorial Board, Journal of Biosystems Engineering, Published by Islamic Azad University, Takestan Branch, Iran. ISSN: 2549-2322. Website: http://jbse.tiau.ac.ir/

Domestic Journals Referee:

- Referee of innovative projects and patents, Growth Center of Technology Units, Shahid Chamran University of Ahvaz, Iran.
- Iranian Journal of Biosystem Engineering, Indexed in ISC (Islamic Science Citation), Published by University of Tehran, Iran. Print ISSN 2008-4803, Online ISSN: 2423-7841. Website: https://ijbse.ut.ac.ir/?lang=en.
- Journal of Agricultural Engineering, Indexed in ISC (Islamic Science Citation), Published by Shahid Chamran University of Ahvaz, Iran. ISSN 0254-3648. Website: http://agrieng.scu.ac.ir/.
- Journal of Agricultural Machinery, Indexed in ISC (Islamic Science Citation), Published by Ferdowsi University of Mashhad, Iran. ISSN-Print: 2228-6829, ISSN-Online: 2423-3943. Website: https://jame.um.ac.ir/.
- Journal of Researches in Mechanics of Agricultural Machinery, Indexed in ISC (Islamic Science Citation), Published by Shahrekord University, Iran. ISSN: 2345-6906. Website: http://journals.sku.ac.ir/page/journal-main-page.html?jourId=21756
- Journal of Biosystems Engineering, Published by Islamic Azad University, Takestan Branch, Iran. ISSN: 2549-2322. Website: http://jbse.tiau.ac.ir/
- Journal of Agricultural Mechanization, Published by University of Tabriz, Iran. Print ISSN 2383-126X. Website: https://jam.tabrizu.ac.ir/?lang=en

International Journals Referee:

- Journal of the Science of Food and Agriculture, Indexed in JCR (ISI Journal Citation Reports), IF= 1.436, Published by Wiley, Edited By: David S Reid, Online ISSN: 1097-0010. Website: http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN%291097-0010.
- Food Science & Nutrition, Indexed in JCR A new open access journal, Published by Wiley, Edited By: Y. Martin Lo, Online ISSN: 2048-7177. Website: http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN%292048-7177.
- International Journal of Agricultural and Biological Engineering, JCR journal, IF2019=1.731. Website: http:// https://www.ijabe.org

LANGUAGES:

- Persian (native)
- Turkish (native)
- Kurdish (good)
- English (good)