Curriculum Vitae

NAME & SURNAME: Mohamad Esmail Khorasani Ferdavani

DATE OF BIRTH: 1977

ADDRESS, SUBURB, STATE, POSTAL CODE: Department of Biosystem Engineering, Faculty of Agriculture, Shahid Chamran University of Ahvaz, Ahvaz, Iran & Postal code: 61357-43311

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PROFESSIONAL PROFILE:

Assistant Professor of Biosystem Engineering in Shahid Chamran University of Ahvaz, Iran (From 2009 up to now).

- Orcid Page: https://orcid.org/0000-0003-0448-6581
- Google Scholar Page:https://scholar.google.com/citations?user=Lhx0TP8AAAAJ&hl=en
- Researchgate Page: https://www.researchgate.net/profile/Esmail_Khorasani
- Web of Science Researcher ID: AAF-6636-2021
- Scopus ID: 57211327147

JOURNALS REFREE:

- 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
- 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/.

POSITION HELD:

- Executive Secretary of the 12th National Congress of Agricultural Machinery Engineering and Mechanization of Iran, 5-6 February 2020.

EDUCATION BACKGROUND:

Ph.D.: Mechanic of Agricultural Machinery Engineering, University of Tehran, Karaj, Iran (2004-2009).

Thesis Title:

"Design, Development and Evaluation of a Sugar Cane Yield Monitoring System"

M.Sc.: Mechanic of Agricultural Machinery Engineering, University of Tehran, Iran (2001-2003).

Thesis Title:

"Design and Manufacturing Procedure of a Hydro-Pneumatic Water Pump for Wind-Turbines"

B.S.: Agricultural Machinery Engineering, University of Ilam, Iran (1997-2001).

Final Project Title:

"Design and manufacture of material strength laboratory devices"

TEACHING AND TRAINING EXPERINCE:

Undergraduate Courses:

- General Farm Machineries
- Internal Combustion Engines
- Internal Combustion Engines Laboratory
- Numerical Methods
- Fundamentals of Engineering Electricity (1)
- Fundamentals of Engineering Electricity (1) Laboratory
- Mechanical Vibrations
- Food Packaging Equipment and Facilities
- Fundamentals of Pneumatics
- Training

Graduate Courses:

- Instrumentation and Control
- Advanced Instrumentation

HONOURS AND AWARDS:

- Top B.S. student in Agricultural Machinery Engineering with a grade point average of 18.15 out of 20 (2001).
- Scholarship for Ph.D. study, (2004-2008).
- Short Research Opportunity in Brazil Unicamp University in Campinas (2007).

- Best Research Professor (Inventor) Shahid Chamran university of Ahvaz (2016).

INTERESTS AND RESEARCH FIELDS:

- The Area of Agricultural Automation Design
- Advanced Technologies in Precision/Smart Agriculture
- Development Of Smart Sensors for Monitoring And Control in Greenhouses, Fields and Gardens .
- Renewable Energies in Agricultures

RESEARCH ACTIVITIES:

PUBLICATIONS:

1. 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
2. Masoudi, H., Mohamadi, A., Khorasani Ferdavani, M.E. (2021). Development of an Electronic System for Obstacle Detection in Front of Tactor using 2D Laser Scanner. *Journal of Researches in Mechanics of Agricultural Machinery*. (In Persian with English Abstract)
3. 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. (In Persian with English Abstract). https://dx.doi.org/10.22092/erams.2019.122236.1263.
4. Golchin, A., Zaki Dizaji, H., Mahmoodi Surestani, M., Khorasani Fardevani, M. (2019). The Electronic Nose Technique for Non-Destructive clustering of Basil as a Medicinal Plant. NDT Technology, 2(4), 54-60. (In Persian WITH English Abstract). https://dx.doi.org/10.30494/jndt.1398.95385.
5. Mehregan, H., Ghavami Jolandan, S., Khorasani Ferdavani, M. (2019). Design, fabrication and evaluation of the tractor's tire pressure control and adjustment system. *Journal of Agricultural Engineering Soil Science and Agricultural Mechanization*, (Scientific Journal of Agriculture), 42(3), 19-31. (In Persian WITH English Abstract). https://dx.doi.org/10.22055/agen.2019.29949.1498
6. Ebrahimi, H., Mortazavi, S.M.H., Khorasani Ferdavani, M.E., Mehrabi-Koushki, M., (2019). The impact of two-sided ultraviolet radiation and long-term freezing on quality of date fruit at rutab stage, *Journal of Food Processing and Preservation*, Vol. 43, Issue 10, e14128. https://doi.org/10.1111/jfpp.14128
7. Bougari, E., Zaki Dizaji, H., Khorasani, M.E., (2017). Simulation of Economic Damage at Mechanized Wheat Harvesting in Khuzestan Province of Iran, *Journal of Iran Agricultural Research*, 36(1), 61-72. (In Persian WITH English Abstract). https://dx.doi.org/10.22099/iar.2017.3880
8. Andekaeizadeh, K., Sheykh Davodi, M. J., Khorasani Fardavani, M. E. (2017). The selection of best tillage implements in terms of energy use efficiency using simple additive weighting methodology, *Journal of Agricultural Machinery*, 7(1), 37-47. (In Persian WITH English Abstract). https://dx.doi.org/10.22067/jam.v7i1.48464

9. Seidi, R., Khorasani-Ferdavani, M.E., Sheikh-Davoodi M.J., Masoudi, H. (2017). Evaluating Reaction Time and Maneuverability 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). https://dx.doi.org/10.22092/erams.2017.106721.1106
10. Hafezi, N., Sheikhdavoodi, M., Sajadiye, S., Khorasani Ferdavani, M. (2016). Neural Modeling for Predicting the Moisture Ratio of Potato Slice in Radiation-Vacuum Dryer. *Journal of Agricultural Engineering Soil Science and Agricultural Mechanization*, (Scientific Journal of Agriculture), 39(1), 39-53. (In Persian WITH English Abstract). https://dx.doi.org/10.22055/agen.2016.12273
11. Nematpour Malikabad, H., Sheikhdavoodi, M., Khorasani Ferdavani, I., Zaki Dizaji, H. (2016). Predicting Moisture Content of Edible Onion with Neural Network During Drying Process. *Journal of Agricultural Engineering Soil Science and Agricultural Mechanization*, (Scientific Journal of Agriculture), 38(2), 145-161. (In Persian WITH English Abstract). https://dx.doi.org/10.22055/agen.2016.11671
12. Hafezi, N., Sheikhdavoodi, M., Sajadiye, S., Khorasani Ferdavani, M. (2016). The study of some physical properties and energy aspects of potatoes drying process by the infrared-vacuum method. *Journal of Agricultural Machinery*, 6(2), 463-475. (In Persian WITH English Abstract). https://dx.doi.org/10.22067/jam.v6i2.42536
13. Minaei, S., & Bagherpour, H., & Abdollahian Noghabi, M., & Khorasani Fardvani, M., & Forughimanesh, F. (2016). A Comparative Study Concerning Linear and Nonlinear Models to Determine Sugar Content in Sugar Beet by Near Infrared Spectroscopy (Nir). *Journal Of Food Biosciences and Technology*, 6(1), 13-22. https://www.sid.ir/en/journal/ViewPaper.aspx?id=469900
14. Bagherpour, H. & Minaee, S., & Abdollahian Noghabi, M., & Khorasani, E. (2015). Development of an Exterior-Mount Real Time Sugar Beet Yield Monitoring System for a Sugar Beet Harvester. Cercetari Agronomice in Moldova. 48(1), pp. 17 – 24. https://doi.org/10.1515/cerce-2015-0013
15. Bagherpour, H., & Minaei, S., & Abdollahian Noghabi, M., & Khorasani Fardvani, M. (2015). Non-Destructive Determination of Sugar Content in Root Beet by Near Infrared Spectroscopy (NIRS). *Iranian Journal of Food Science and Technology*, 12(46), 219-228. (In Persian WITH English Abstract). https://fsct.modares.ac.ir/article-7-3399-fa.html
16. Noorghadami, Z., Sheikh-Davoodi, M.J., Sajadiye, S.M., Khorasani Ferdavani, M.E., (2014). Analysis of Laboratory Model of Corn Reservoir Dryer with Fixed Bed, *International Journal of Farming and Allied Sciences*, Vol. 10, pp. 1049 – 1053. http://ijfas.com/wp-content/uploads/2014/11/1049-1053.pdf
17. Noorghadami, Z., Shiekhdavoodi, M., Sajjadiyeh, S., Khorasani Ferdavani, M. (2014). Analysis of Energy Consumption Rate in Drying Process of Corn Using Dryer Reservoir in Different Temperature and Height of Layer. *International Journal of Advanced Biological and Biomedical Research*, 2(7), 2314-2318. http://www.ijabbr.com/article_8065.html
18. Hafezi, N., Sheikhdavoodi, M., Sajadiye, S., Khorasani Ferdavani, M. (2014). Evaluation of Energy Consumption of Potato Slices Drying Using Vacuum-Infrared Method. *International Journal of Advanced Biological and Biomedical Research*, 2(10), 2651-2658. http://www.ijabbr.com/article_9990.html
19. Bougari, E., Zaki Dizaji, H., Khorasani Ferdavani, M.E. (2013). Evaluation some affecting factors on John Deere Combine 955 series losses during harvest by mathematical models (Case study Ahvaz city), *Elixir International Journal of Agriculture*, Vol. 58, pp.15209 -

15213. https://www.elixirpublishers.com/articles/1370505015_58%20 (2013) %2015209-15213.pdf

20. Khorasani fardavani, M.E., Alimardani, R., Omid, M. (2009). Development and Laboratory Evaluation of a Noise Reducing Technique as Based on a Free Mass Load Cell for Sugarcane Yield Monitoring Scale Platform. *Iranian Journal of Biosystems Engineering*, 40(1), pp. 53 -62. (In Persian with English Abstract). https://www.sid.ir/en/journal/ViewPaper.aspx?id=172275
21. Jamil, M., & Abbaspour Sani, K., & Khorasani, E. (2006). The Optimum Distance Between Wind Turbines in A Wind Power Plant. *International Journal of Industrial Engineering and Production Management* (IJIE) (International Journal of Engineering Science) (Persian), 17(3), 31-36. (In Persian with English Abstract). https://www.sid.ir/en/journal/ViewPaper.aspx?id=104310
22. Jamil, M., & Abbaspour Sani, K., & Khorasani, E., & Basireh, A., & Haydari, M. (2005). Determination Of Wind Speed Distribution in Manjil for Wind Energy Utilization Purposes. *International Journal of Engineering Science* (English), 16(3), 55-61. https://www.sid.ir/en/journal/ViewPaper.aspx?id=47492
23. Jamil, M., Khorasani, E., Abbaspour Sani, K., (2004). Optimal Distance Between Wind Turbines in a Wind Farm, *Iranian Journal of Energy*, Vol. 4, Issue 8, pp. 55-63, (In Persian). URL: http://necjournals.ir/article-1-132-fa.html

CONFERENCE PRESENTATIONS:

1. Andkaizadeh, K., Zaki-Dizaji, H., Khorasani Ferdavani, M.E. and Sheikh Davoodi, M.J., (2020), Evaluation of Regression and Experimental Models of Tensile Strength of Primary Tillage Equipment at Advancing Speeds and Depths, 12th National Congress of Biosystems Engineering and Mechanization, Ahvaz, Iran. (In Persian with English Abstract). https://civilica.com/doc/1005469
2. Andkaizadeh, K., Sheikh Davoodi, M.J. and Khorasani Ferdavani, M.E., (2020). Investigation of the effect of advance speed and plowing depth on energy consumption indices of three types of primary tillage machines, 12th National Congress of Biosystems Engineering and Mechanization, Ahvaz, Iran. (In Persian with English Abstract). https://civilica.com/doc/1005579
3. Abbasian, B., Khorasani Fardevani, M.E. and Zaki Dizaji, H., (2020). the process of designing and manufacturing of a sugarcane billets Planter for sugarcane cultivation industries in Khuzestan province, 12th National Congress of Biosystems Engineering and Mechanization, Ahvaz, Iran. (In Persian with English Abstract). https://civilica.com/doc/1005671
4. Veismoradi, A., Khorasani Fardevani, M.E. and Safiedin Ardebili, S.M., (2020). Biodiesel and nanoparticles as a fuel additive to improve engine performance and exhaust emissions of diesel engine: A review, 12th National Congress of Biosystems Engineering and Mechanization, Ahvaz, Iran. (In Persian with English Abstract). https://civilica.com/doc/1005594
5. Saki, S., Khorasani Fardevani, M.E. and Safiedin Ardebili, S.M., (2020). Technical Evaluation of Hybrid Compressed Air Pump, 12th National Congress of Biosystems Engineering and Mechanization, Ahvaz, Iran. (In Persian with English Abstract). https://civilica.com/doc/1005565
6. Seidi, R., Khorasani Ferdavani, M. and Ramezani, A., (2020). Replacement of electronic control systems with conventional mechanical control systems in sugarcane harvester 7000,

12th National Congress of Biosystems Engineering and Mechanization, Ahvaz, Iran. (In Persian with English Abstract). https://civilica.com/doc/1005600

7. Andkaizadeh, K., Zaki Dizaji, H., Khorasani Ferdavani, M.E. and Sheikh Davoodi, M.J., (2020). Evaluation of Regression and Experimental Models of Tensile Strength of Primary Tillage Equipment at Advancing Speeds and Depths, 12th National Congress of Biosystems Engineering and Mechanization, Ahvaz, Iran. (In Persian with English Abstract). https://civilica.com/doc/1005469
8. Khorasani Ferdavani, M.E. and Mortazavi, S.M.H., (2019), Design, Construction and Evaluation of a Variable Intensity UVC Lab Chamber for disinfection of horticultural products, 3rd International Congress and 26th National Congress of Food Science and Technology of Iran, Tehran, Iran. (In Persian with English Abstract). https://civilica.com/doc/957658
9. Ebrahimi, H., Mortazavi, S.M.H., Khorasani Ferdavani, M.E., Mehrabi-Koushki, M., (2019). Using UV radiation plus long-term freezing to preserve date fruit quality at Rutab stage, 3rd International Congress and 26th National Congress of Food Science and Technology of Iran, Tehran, Iran. (In Persian with English Abstract). https://civilica.com/doc/957666
10. Zaki Dizaji, H., Golchin, A., Mahmoodi Surestani, M. and Khorasani Fardevani, M.E. (2019). Investigation of pattern recognition methods for analyzing E-nose data and providing the best method for identification of some Ocimum SPP, 3rd International Congress and 26th National Congress of Food Science and Technology of Iran, Tehran, Iran. (In Persian with English Abstract). https://civilica.com/doc/957622
11. Khorasani Ferdavani, M.E., Barati, M.J. and Mortazavi, S.M.H., (2018) Design, Construction and Evaluation of Salinity Measuring System in Hydroponics Electrolytic Nutrients Auto-Dozer, 11th National Congress of Biosystems Engineering and Mechanization, Hamedan, Iran. (In Persian with English Abstract). https://civilica.com/doc/799327
12. Ghavami Jolandan, S., Mehregan, H. and Khorasani Ferdavani, M.E., (2018). Automatic Tire Pressure Control Systems, Mechanisms and Applications, 11th National Congress of Biosystems Engineering and Mechanization, Hamedan, Iran. (In Persian with English Abstract). https://civilica.com/doc/799377
13. Saki, S. and Khorasani Fardevani, M.E., (2018). Solar Energy Potentiometric Analysis of Ahwaz City and Comparison of Estimation Models of Solar Radiation with Statistical Methods and Artificial Neural Networks, 11th National Congress of Biosystems Engineering and Mechanization, Hamedan, Iran. (In Persian with English Abstract). https://civilica.com/doc/799328
14. Tarighi, J., Khorasani Fardevani, M.E. and Mousazadeh, H., (2018). Design, Fabrication and evaluation an alarm System to Prevent Tractor Overturning, 11th National Congress of Biosystems Engineering and Mechanization, Hamedan, Iran. (In Persian with English Abstract). https://civilica.com/doc/799293
15. 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). (English).13-15 September 2017, Izmir. Turkey.
16. Rezaei A., Masoudi H., ZakiDizaji H. and Khorasani M.E. (2016). Static and Vibration Analysis of Rear Axle in Combine using Finite Element Method, 2th National Congress of

Mechanization and New Technologies in Agriculture, Ahvaz, Iran. (In Persian with English Abstract). https://civilica.com/doc/533584

17. Rezaei A., Masoudi H., ZakiDizaji H. and Khorasani M.E. (2016). Principles and methods for measurement and analysis of loads on tires in order to design, 2th National Congress of Mechanization and New Technologies in Agriculture, Ahvaz, Iran. (In Persian with English Abstract). https://civilica.com/doc/533564
18. Saki, S. and Khorasani Fardevani, M.E., (2016). A review on solar energy as a renewable energy, 2th National Congress of Mechanization and New Technologies in Agriculture, Ahvaz, Iran. (In Persian with English Abstract). https://civilica.com/doc/533558
19. Bagheriashena, A., Khorasani Fardevani, M.E., Bahrami, H. and ZakiDizaji H., (2016). the study on heat transfer and mass flow of fin-tube radiator in john Deere combine diesel engine with E-NTU method, 2th National Congress of Mechanization and New Technologies in Agriculture, Ahvaz, Iran. (In Persian with English Abstract). https://civilica.com/doc/533581
20. Bagheriashena, A., Khorasani Fardevani, M.E., Bahrami, H. and ZakiDizaji H., (2016). Thermal Design Perkins Diesel Engine Radiator of John Deere 1055 with its Economic Approach, 2th National Congress of Mechanization and New Technologies in Agriculture, Ahvaz, Iran. (In Persian with English Abstract). https://civilica.com/doc/533530
21. 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). https://civilica.com/doc/432925
22. 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). https://civilica.com/doc/432926
23. Khorasani Fardevani, M.E., (2015). Precision Agriculture Perspectives for Iran Sugar Cane and By Products Development Agro-Industries, 9th National Congress of Agricultural Machinery (Biosystems) and Mechanization, Tehran, Iran. (In Persian with English Abstract).
24. Noorghadami, Z., Sheikh-Davoodi, M.J., Khorasani Ferdavani, M.E., (2015). Application of artificial neural network in prediction of moisture content during maize drying process, 9th National Congress of Agricultural Machinery (Biosystems) and Mechanization, Tehran, Iran. (In Persian with English Abstract).
25. Hafezi, N., Sheikhdavoodi, M., Sajadiye, S., Khorasani Ferdavani, M., (2015). Estimating moisture content of the Potato Slice in the Infrared-Vacuum Combinatorial Dryer using Artificial Neural Networks, 9th National Congress of Agricultural Machinery (Biosystems) and Mechanization, Tehran, Iran. (In Persian with English Abstract).
26. Bougari, E., Zaki Dizaji, H., Khorasani, M.E., (2015). Development of a Computer Simulation Model for Reducing Economic Damage of Mechanized Wheat Harvesting in Khuzestan Province of Iran, 9th National Congress of Agricultural Machinery (Biosystems Engineering) and Mechanization, Tehran, Iran. (In Persian with English Abstract).
27. Andkaizadeh, K., Sheikh Davoodi, M.J. and Khorasani Ferdavani, M.E. (2015). Analysis of Energy Consumption Process in Tillage Implements, International Conference on

Sustainable Development With a focus on Agriculture, Environment and Tourism Tabriz, Iran. (In Persian with English Abstract). https://civilica.com/doc/468228

28. Nematpour Malikabad, H., Sheikhdavoodi, M.J., Khorasani Ferdavani, E., Zaki Dizaji, H. (2014). Predicting Moisture Content and The Time Required of Onion Slice with Multiple Regression Method During Drying Process, 3th National Conference of Sustainable Rural Development, Hamedan, Iran. (In Persian with English Abstract). https://civilica.com/doc/282174
29. Nematpour Malikabad, H., Sheikh Davoodi, M.J., Khorasani Ferdavani, E. and Zaki Dizaji, H., (2014). Predicting the time required for drying onions using artificial neural network, 3th National Conference on Sustainable Rural Development, Hamedan, Iran. (In Persian with English Abstract). https://civilica.com/doc/282173
30. Bagherpour, H. & Minaee, S., & Abdollahian Noghabi, M., & Khorasani, M.E. (2014). Development of a Real Time Sugar Beet Yield Monitoring System and Mapping Product Quality and Quantity, 8th National Congress on Agr. Machinery Eng. (Biosystem) & Mechanization. (In Persian with English Abstract). https://civilica.com/doc/284397
31. Khorasani Ferdavani, M.E. and Masoudi H., (2014). Analysis of Theoretical model of a combinate Wind Driven (hydro- pneumatic) Water Pumper with Mathcad®, 8th National Congress on Agr. Machinery Eng. (Biosystem) & Mechanization. Mashhad, Iran. (In Persian with English Abstract). https://civilica.com/doc/284401
32. Masoudi, H., Khorasani Ferdavani, M.E. (2014). Analysis of Stress and Strain on Different Subsoilers Using ANSYS Software. 8th National Congress on Agricultural Machinery Engineering (Biosystem) & Mechanization. Mashhad, Iran. (In Persian with English Abstract). https://civilica.com/doc/284438
33. Nematpour Malikabad, H., Sheikhdavoodi, M., Khorasani Ferdavani, E., Zaki Dizaji, H. (2013). Effect of temperature, layer and slices thickness on required time of Onion drying (red Azarshahr variety), 2th National Congress of Sustainable Development of Agriculture and Healthy Environment, Hamedan. (In Persian with English Abstract). https://civilica.com/doc/220187
34. Bastami Mohamadi, M., Sheikhdavoodi, M., Khorasani Ferdavani, M.E. and Jamil, M., (2013). The Use of Wind Energy for Utilization Wind Pumps in Shooshtar City, 3rd National Conference of Fuel, Energy & Environment, Karaj. (In Persian with English Abstract). https://civilica.com/doc/223649
35. Bougari, E., Zaki Dizaji, H., Khorasani, M.E. and Mirshekali, S., (2013). Evaluation of some affecting factors on New Holland TC56.Combine losses during harvest by mathematical models in Ahvaz, 6th Symposium on Losses of Agricultural Products. Tehran, Iran. (In Persian with English Abstract).
36. Bougari, E., Zaki Dizaji, H. and Khorasani, M.E., (2013). Evaluation of some affecting Parameters on wheat harvesting losses in JD955 Combines using mathematical models for reducing combine losses (case study Ahvaz country), First National Conference intervals solutions to achieving sustainable development of agriculture, natural resources and environmental, Tehran, Iran. (In Persian with English Abstract). https://civilica.com/doc/198269
37. Bastami Mohamadi, M., Sheikhdavoodi, M., Khorasani Ferdavani, M.E. and Jamil, M., (2013). wind energy Potential evaluation in the town of Hendijan for agriculture applications, First National Conference intervals solutions to achieving sustainable development of agriculture, natural resources and environmental, Tehran, Iran. (In Persian with English Abstract). https://civilica.com/doc/197561

38. Bougari, E., Zaki Dizaji, H., Khorasani, M.E. and Mirshekali, S., (2012). Assessment Wheat harvest losses in New Holland TC56 and JD955 combines (Case study in Ahwaz city), National Conference on Strategic Agricultural Research of Iran, Islamic Azad University, Takestan Branch. (In Persian with English Abstract).
39. Masoudi, H., Khorasani Ferdavani, M.E. (2012). Tractor three angles measurement system using gyroscope. 7th National Congress on Agricultural Machinery Engineering and Mechanization, Shiraz, Iran. (In Persian with English Abstract). https://civilica.com/doc/180867
40. Zaki Dizaji, H., Soleimani Varposhti, I. and Khorasani Ferdavani, M.E. (2012). Design and Development of a prototype Self-propelled Date Tree climbing Robot Mechanism, The First Conference on Date Palm and Food Security, Ahvaz, Iran. (In Persian with English Abstract).
41. Khorasani Ferdavani, M.E. and Masoudi H., (2012). Development of an electromagnetic sensor for on-the-go non-contact measurement of apparent soil electrical conductivity, 7th National Congress on Agricultural Machinery Engineering and Mechanization, Shiraz, Iran. (In Persian with English Abstract). https://civilica.com/doc/180833
42. Khorasani Fardavani, M.E., Alimardani, R., Omid, M. and Zaki Dizaji, H., (2011). Site Specific Management of Sugar Cane Fields by Yield Monitoring Systems, The First National Conference on Mechanization and New Technologies in Agricultural, Ahvaz, Iran. (In Persian with English Abstract). https://civilica.com/doc/176545
43. Khorasani Ferdavani, M.E., Alimardani, R., Omid, M. and Graziano Magalhães, P., (2008). Development and Laboratory Evaluation of a Noise Reducing Technique as Based on a Free Mass Load Cell for Sugarcane Yield Monitoring Scale Platform. 5th National Conference on Agr. Machinery Engineering and Mechanization, Mashhad, Iran. (In Persian with English Abstract). https://civilica.com/doc/52864

RESEARCH PROJECTS:

1. Khorasani Ferdavani, M.E., (2020), The main executor of the industrial demand project entitled “Design and optimization of reservoir mechanism, distribution and automatic control of sugarcane cutting machine feeding system model BP-4000”, (operation is already in progress).
2. Khorasani Ferdavani, M.E., (2020), The main executor of the industrial demand project entitled “Designing and proposing the optimal method of monitoring the line of cuttings planting rate in sugarcane cuttings machine model BP-4000”, (operation is already in progress).
3. Zaki Dizaji, H., Khorasani Ferdavani, M.E., (2018), Study of Theoretical and Experimental Models in Special Draft Estimation of Three Kind Primary Tillage Implements, Deputy of Research and Technology, Shahid Chamran University of Ahvaz, Iran. Project number: 71235.
4. Khorasani Ferdavani, M.E., (2015), The main executor of the industrial demand project entitled Design, Development and Evaluation of CASE 7000 Harvester forward Speed and Motor RPM Electronics control systems, Deputy of Research and Technology, Shahid Chamran University of Ahvaz, Iran. Project number: 94/3/2/72184.
5. Zaki Dizaji, H., Khorasani Ferdavani, M.E., (2014), Feasibility of design and development of a Palm Dates tree climbing robot mechanism, Deputy of Research and Technology, Shahid Chamran University of Ahvaz, Iran. Project number: 92/3/2/6463

6. The main partner of the research project “Construction and evaluation of sugarcane yield measurement system”(2008), between the University of Tehran and Sugarcane Development Company and ancillary industries
7. Collaboration in the research project “Optimization of sugarcane yield measurement system”, (2007), Research Department of Unicamp University of Brazil from June 19, 2007 for 6 months.
8. Cooperation in the inter-university research project “Optimization of the distance between wind turbines in a wind farm” (2004), between Materials and Energy Research Institute (Karaj) and Kurdistan University (final project report in October 2004).

PATENTS:

1. Patent title: Combined air-compressed Water pump, State Property and Documents Registration Office, Registration number: 97395, Registration date: 16/12/2018, Tehran, Iran.
2. Patent validation: Agro-Industrial Hydro-Pneumatic Water Pump, validation certificate from the Scientific and Industrial Research Organization of Iran, Registration number: 9501289, Registration date: 25/06/2016.
3. Patent title: Agro-Industrial Hydro-Pneumatic Water Pump, State Property and Documents Registration Office, Registration number: 86224, Registration date: 15/07/2015, Tehran, Iran.
4. Patent title: Tractor overturning warning system, State Property and Documents Registration Office, Registration number: 66570, Registration date: 19/09/2010, Tehran, Iran.
5. Patent title: Sugar Beet Yield Monitoring and Mapping Product Quantity System, State Property and Documents Registration Office, Registration number: 84471, Registration date: 03/12/2014, Tehran, Iran.

PROFESSIONAL MEMBERSHIPS:

- Member of Iranian Acoustics and Vibrations Association.
- Member of Iranian Society of Agricultural Machinery and Mechanization Engineers.
- Member of the Board of Iranian Society of Agricultural Machinery and Mechanization Engineers.

LANGUAGES:

PERSIAN: Native

ENGLISH: Good