




NAME & SURNAME: Hassan Zaki Dizaji

DATE OF BIRTH: 22nd April 1979

 **ADDRESS:** Department of Biosystem Engineering, Faculty of Agriculture, Shahid Chamran University of Ahvaz, Ahvaz, Khuzestan, Iran & Postal code: 61357-83151

 **PHONE/MOBILE NUMBER:** +986133364057/+989124793407

 **E-MAIL ADDRESS:** hzakid@scu.ac.ir.

PROFESSIONAL PROFILE:

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

- Orcid Page: <https://orcid.org/0000-0002-8891-5031>
- Web of Science Researcher ID: N-3476-2017
- Scopus Author ID: 54974083600
- ResearchGate Page: <https://www.researchgate.net/profile/Hassan-Zaki-Dizaji>
- Google Scholar Page: <https://scholar.google.com/citations?user=KAKhmM0AAAAJ&hl=en>

JOURNALS REFREE:

- ✓ Iranian Journal of Biosystems Engineering, Publisher: Tehran University, Campus of Agriculture and Natural Resources, Iran. ISSN: 2423-7841. Website: <https://ijbse.ut.ac.ir>.
- ✓ Journal of Agricultural Mechanization, Published by University of Tabriz, Iran. ISSN 2383-126X, <https://jam.tabrizu.ac.ir>
- ✓ Journal of Agricultural Engineering, Indexed in ISC (Islamic Science Citation), Publisher: Shahid Chamran University of Ahvaz, Iran. ISSN 0254-3648. Website: <http://agrieng.scu.ac.ir/>.
- ✓ Journal of Acoustical Engineering Society of Iran, Publisher: Iranian Audio Engineering Association, Iran, ISSN: 2345- 5748, <http://joasi.ir/>
- ✓ International journal of food science and technology, Publisher: Institute of Food Science and Technology, the IFST. London, UK, ISSN: 1365-2621, <https://ifst.onlinelibrary.wiley.com/journal/13652621>

Curriculum Vitae



- ✓ Iranian Journal of Chemistry and Chemical Engineering (IJCCE), Publisher: Iranian Institute of Research and Development in Chemical Industries (IRDCI)-ACECR, Iran, ISSN: 1021-9986, <https://www.ijcce.ac.ir/>
- ✓ Agricultural Engineering International: CIGR Journal, CIGR Official publication, ISSN: 1682-1130, <https://cigrjournal.org>

POSITION HELD:

- ✓ Student Affairs director at SCU 2010 – 2013
- ✓ Head of Biosystem engineering Department at SCU 2014 – 2016,
- ✓ The secretary of the 12th National Congress of Biosystems Engineering and Mechanization of Iran, 5-7 February 2020,
- ✓ Advisor to the Union of Student Scientific Associations of Biosystems Mechanics, Mechanization and Food Industry Machines, 2020 –2021.
- ✓ Chairman of the Iranian Association of Agricultural Machinery and Mechanization Engineering (ISAMME) 2020- now.

EDUCATION BACKGROUND:

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

Thesis Title:

“Design and Utilization of an Ultrasonic Nondestructive System for Quality Determination of Some Fruits (with Emphasis on Pomegranate)”

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

Dissertation Title:

“Design of a Double-Purpose Planter for Planting of Small Seeds and Development and Testing of its Seed Knockout Pawl”

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

Final Project Title: “Static and dynamic analysis of engine crankshaft balance”

TEACHING AND TRAINING EXPERINCE:

Undergraduate Courses:

- General Farm Machineries
- Element Design
- Computer programing
- Mathematics
- Thermodynamics
- Fluid mechanics
- Measurement and control systems

Curriculum Vitae



- Materials Science
- Design of Planting Machines
- Design of Tillage Machines
- Food Engineering Laboratory
- Food quality control
- Training
- Project

Post-Graduate Courses:

- Intermediate Agricultural Machinery Design
- Techniques for Food Authentication
- Transport Phenomena in food processing

HONOURS AND AWARDS:

- Top Student, ranked 1st graduated Students in Agricultural Machinery Engineering, Urmia University, Iran, 2001
- Ranked 2nd of Ph.D. Entrance exam, Iranian ministry of science, research and technology, Iran, 2004
- Top Researcher, Tarbiat Modarres University, Tehran, Iran, 2005
- Short Research Opportunity in Tuscia University, viterbo, Italy, 2008. Title of Project: Application of AOTF NIRS to analysis of imported pistachio nuts from Iran.

INTERESTS AND RESEARCH FIELDS:

- Post-harvest technology: quality assessment of food and agricultural products in destructive and non-destructive methods.
- Waste Management and Recycling of Agricultural Materials: Nanocellulose Production and Processing Technology

RESEARCH ACTIVITIES:

PUBLICATIONS:

Books:

Nasim Monjezi and Hassan Zaki Dizaji, 2019, Scheduling of agricultural mechanization projects (Application of fuzzy network techniques), publisher: shahid Chamran Univocity Of Ahvaz, ISBN: 978-600-141-240-0,

Papers:

1. 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).

- <https://dx.doi.org/10.30494/jndt.1398.95385>.
- 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*. (In Persian). doi: 10.22067/jam.2021.58832.0
 - 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>.
 - Mohammadi Amini, Z., Mansoori Y. and Zaki Dizaji, H. (2017). Comparison of two Planter for Vegetable Cultivation in Khuzestan Province. *Agricultural Mechanization and Systems Research*. Vol.17, No.67, P:15-28. (In Persian WITH English Abstract). <http://dx.doi.org/10.22092/erams.2017.112997>
 - Dehghan, E., Sheikhdavoodi, M. J., Zaki Dizaji, H. and Gilani, A. (2016) Fabrication and Evaluation of Grooved Seed Plate for Dry-bed Seeding of Rice Using Pneumatic Row Crop Planter. *Journal of Engineering Research in Agricultural Mechanization and Systems*. Vol.17, No.66, P:87-100. (In Persian WITH English Abstract).
 - Zaki Dizaji, H., Bahrami, H., Monjezi, N. Shiekhdavoodi, MJ. (2019). Modeling of the variables that influence sugarcane yield using C5. 0 and QUEST decision tree algorithms. *Journal of Agricultural Machinery*, 9 (2), 469-484. (In Persian). <http://dx.doi.org/10.22067/jam.v9i2.69712>
 - Alboativi, E., Asakereh, A., Zaki Dizaji, H., Mansoori, Y. (2022). Potential assessment of energy providing for Bagasse-Based Chipboard Industry using sugarcane waste (a case study: Debal Khozaie agro-Industry). *Articles in Press, Accepted Manuscript*, <http://dx.doi.org/10.22067/jam.v12i2.87600>.
 - Waismoradi, A., Khorasani M.E., Bahrami, H.; Safieddin Ardebili, S.M., Zaki Dizaji, H. (2022). Investigating the effect of increasing nanocellulose to diesel fuel on emission and performance of internal combustion engine. (In Persian). <http://dx.doi.org/10.22067/jam.2021.70608.1042>
 - Zaki Dizaji, H., Monjezi, N. (2018). A Network Model for Time Management in Overhaul of Sugarcane Harvester. 8(2), 403-412. (In Persian). <http://dx.doi.org/10.22067/jam.v8i2.59028>.
 - Zaki Dizaji, H., Monjezi, N. (2018). Evaluation of Loss Resources during Sugarcane Production Process and Provide Solutions to Reduce Waste. 8(1), 67-77. (In Persian). <http://dx.doi.org/10.22067/jam.v8i1.59027>.
 - Monjezi, N., Sheikhdavoodi, M.J., Zaki Dizaji H., Marzban, A., Shomeili (2017). Identifying and Prioritizing the Effective Parameters on Lack of Timeliness of Operations of Sugarcane Production using Analytical Hierarchy Process (AHP). 7(2), 514-526. (In Persian). <http://dx.doi.org/10.22067/jam.v7i2.52521>.
 - Zaki Dizaji H., Marzban, A., Hamid, M. (2015). Operational comparison of two types of tractor sprayers (microner and boom-type) against wheat crop weeds. 5(2), 403-414. (In Persian). <http://dx.doi.org/10.22067/jam.v5i2.28431>.
 - Adibzadeh, A., Zaki Dizaji, H., & Aghili Nategh, N. (2020). Feasibility of Detecting Sugarcane Varieties by Electronic Nose Technique in Sugarcane Syrup. 51 (1), 1-10. (In Persian). https://ijbse.ut.ac.ir/article_73909.html
 - Ghavami Jolandan Sh., Samie, A., Zaki Dizaji, H., Hojjati, M. (2019). The Effect of

- Osmotic and Ultrasonic Pre-Treatments on the Quality of Strawberry Drying Process in Hot Air Drying Method. 50(3), 705-715. (In Persian).
Doi:10.22059/IJBSE.2019.262689.665078
15. Kashanizadeh. R., Zaki Dizaji, H., Ghasemi Nejad., M., Kazemi, N. (2018). Suitable Conservation Tillage Machinery for Loam-Silt Soils Based on the Amount of Crop Residue and Principal Component Analysis Method (PCA), 49(3), Autumn, Pages 367-377. (In Persian). DOI: 10.22059/IJBSE.2018.237132.664965
 16. Zaki Dizaji, H., Monjezi, N., Sheikhdavoodi, M.J. (2018). Investigating Effective Factors on Sugarcane Production Performance to Increase the Production of Sugarcane Using Data Mining. 49(3), 501-511. (In Persian). DOI: 10.22059/IJBSE.2018.248601.665021
 17. Zaki Dizaji, H., Monjezi, N., (2017). Fuzzy approach to optimize overhaul time of sugarcane harvester using GERT network method. 48(1), 91-83. (In Persian). DOI: 10.22059/IJBSE.2017.61563.
 18. Afifi., M.R., Mansoori, Y., Zaki Dizaji, H., Akbarizadeh, Gh. (2018). Grading zahedi dates based on external features using image processing and machine learning methods. 41 (3), 73-84. (In Persian). DOI: 10.22055/AGEN.2019.23352.1374.
 19. Monjezi, N., Sheikhdavoodi, M.J., Zaki Dizaji H., Marzban, A., Shomeili (2017). Application of fuzzy GERT method in operations scheduling of sugarcane production. 40(1), 125-139. (In Persian). DOI: 10.22055/AGEN.2017.13082
 20. . Zaki Dizaji, H and Minaei, S. Tavakoli Hashtjin, T., Mokhtari Dizaji, M. (2015). Measurement of Pomegranate Fruit Quality using its Peel by Transmitted Ultrasonic Technique. 38(1), 43-57. (In Persian). DOI: 10.22055/AGEN.2015.11274
 21. Zaki Dizaji, H and Minaei, S. (2008). Determination of Some Chickpea Physical and Mechanical Properties in Relation to Quantitative Losses. Iranian J. Food Sci. Technol 4 (2), 57-66. (In Persian).
 22. Mansouri, N., Sheikhdavoodi, M.J., Zaki Dizaji H., Asakereh, A. (2019). Evaluation of Different planting method for sugarcane for Khuzestan region 20 (72), 73-90. (In Persian). <http://dx.doi.org/10.22092/erams.2018.114606.1207>
 23. Masoudifar, S., Najafi, SK., Ghofrani, M., Zaki Dizaji H., (2011). Effect of finger joint and scarf joint on ultrasonic parameters. Journal of Forest and Wood Products 64 (1), 77-89. (In Persian).
 24. Zaki Dizaji H. (2017). Monitoring the effect of damages on tomato quality under non controlled storage atmosphere by nondestructive ultrasonic testing. Journal of Acoustical Engineering Society of Iran. 4 (2), 20-28. (In Persian).
-
25. Zaki Dizaji, H and Minaei, S. Yousefzadeh Taheri, M.R. (2010). Air-jet Seed Knockout Device for Pneumatic Precision Planters. Agricultural mechanization in Asia, Africa, and Latin America. 41(1):45-50.
 26. H. Maghsoudi, M.H. Khoshtaghaza, S. Minaei and H. Zaki Dizaji (2012). Fracture Resistance of Unsplit Pistachio Nuts for Splitting Under Compressive Loading. Journal of agricultural Science and Technology (JAST). Vol. 14: 299-310
 27. Monjezi N., and Zakidizaji H. (2012). Energy and Economic Analysis of Canola Production in Iran a Case Study: Khuzestan Province. Research Journal of Applied Sciences, Engineering and Technology 4(3): 227-231.
 28. Monjezi N., Sheikhdavoodi, M.J., Basirzadeh H. and ZakiDizaji H. (2012). Analysis and evaluation of mechanized greenhouse construction project using CPM methods. Research Journal of Applied Sciences, Engineering and Technology, 4(18): 3267-3273.
 29. Mohammadiamini, Z., Mansori, Y., and ZakiDizaji H. (2014). Feasibility Study of

- Cultivation of Vegetables Using a Native Planter in Khuzestan. *International Journal of Advanced Biological and Biomedical Research*. Volume 2, Issue 12, Page 2891-2897.
30. Monjezi, N., Sheikhdavoodi, M.J., ZakiDizaji H., Marzban, A., Shomeili M. (2015) Operations Scheduling of Sugarcane Production Using Classical GERT Method (Part I: Land Preparation, Planting and Preserve Operations). *Journal of Agricultural Studies*. Vol 3, No 2 Page 71-84.
 31. Monjezi, N., Sheikhdavoodi, M.J., ZakiDizaji H., Marzban, A., Shomeili M. (2015) Operations Scheduling of Sugarcane Production Using Classical Gert Method (Part II: Preserve Operations, Harvesting and Ratooning). *Journal of Agricultural Studies*. Vol 3, No 2 Page 85-96.
 32. 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](https://www.elixirpublishers.com/articles/1370505015_58%20(2013)%2015209-15213.pdf).
 33. Bougari, E., Zaki Dizaji, H., Khorasani Ferdavani, M.E. (2017). Development of a Computer Simulation Model for Reducing Economic Damage of Mechanized Wheat Harvesting in Khuzestan Province of Iran. *Iran Agricultural Research*. 36(1). <https://dx.doi.org/10.22099/iar.2017.3880>
 34. Jafari Malekabadi, A., Sadeghi, M., and ZakiDizaji H. (2016). Comparison Sprayer quality equipped with a telescopic boom with conventional sprayer in orchards in Iran. *Journal of agricultural Science and Technology (JAST)*. Vol. 18: No. 3.
 35. Ramezani, H., ZakiDizaji H., Masoudi, H., and Akbarizadeh, Gh. (2016). A New DSWTS Algorithm for Real-Time Pedestrian Detection in Autonomous Agricultural Tractors as a Computer Vision System. *Measurement* 93:126–134.
 36. Monjezi, N., Sheikhdavoodi, M.J., ZakiDizaji H., Marzban, A., Shomeili M. (2016) Operations scheduling of sugarcane production using fuzzy GERT method (part II: preserve operations, harvesting and ratooning). *Agricultural Engineering International: CIGR Journal*.18 (3), 343-349.
 37. Sanaeifar, A., ZakiDizaji H., Jafari, A.A. Guardia, H., (2017), *Journal Trac-Trends in Analytical Chemistry*, 6(30), Page 257 – 271.
 38. Zaki Dizaji H., Javadikia, H., Azizi, S., Naderloo, L. (2019). Combining Image Processing technique and three Artificial Intelligence methods to recognize the Freshness of Freshwater Shrimp. *Journal of Food and Bioprocess Engineering*. Volume 2, Issue 2, Pages 155-162.
 39. Hosseini, M., Zaki Dizaji, H., Taghavi, M., And Babaei, A. (2020). Preparation of ultra-lightweight and surface-tailored cellulose nanofibril composite cryogels derived from Date palm waste as powerful and low-cost heavy metals adsorbent to treat aqueous medium. *Industrial Crops and Products*. <https://doi.org/10.1016/j.indcrop.2020.112696>
 40. Zaki Dizaji, H., Adibzadeh, A. & Aghili Nategh, N. (2021). Application of E-nose technique to predict sugarcane syrup quality based on purity and refined sugar percentage. *J Food Sci Technol*. 58, pages 4149–4156. <https://doi.org/10.1007/s13197-020-04879-4>
 41. Zaki Dizaji, H., Haroni, S., Sheikhdavoodi, M.J., Safieddin Ardebili, S.M. González Alriols, M., & Kiani Deh Kiani., M. (2021). investigation on the environmental impacts and energy efficiency of biogas and bioethanol production from sugarcane and sugar beet molasses: A case study. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*. <https://doi.org/10.1080/15567036.2021.1898493>

42. Haroni S., Zaki Dizaji H., Bahrami H., González Alriols M, Alriols, (2021). Sustainable production of cellulose nanofiber from sugarcane trash: A quality and life cycle assessment, *Industrial Crops and Products*, Volume 173, <https://doi.org/10.1016/j.indcrop.2021.114084>
43. Albosharib, D., Noshad, M., Jooyandeh, H., & Zaki Dizaji, H. (2021). Effect of freezing and radiofrequency pretreatments on quality and kinetics of convective air-drying of potatoes. *Journal of Food Processing and Preservation*, 00, e16062. <https://doi.org/10.1111/jfpp.16062>.

CONFERENCE PRESENTATIONS:

1. Yousefzadeh Taheri, H. Zaki dizaji and S. Minaei (2004). Investigation and determination of some biomechanical properties of chickpea kernel. The Joint Agriculture and Natural Resources Symposium, Tabriz – Ganja.
2. Zaki Dizaji, H and Minaei, S. (2005). Development and testing of an air-jet seed knockout device for Pneumatic precision planters. 13th Annual (International) Mechanical Engineering Conference –Isfahan University of Technology, Isfahan, Iran.
3. Zaki Dizaji, H., Minaei, S., Mokhtary, M. and Tavakkoli Hashtjin T. (2009). Development of an ultrasonic device for investigation of agricultural product quality. 6th International Postharvest Symposium. Antalya. Turkey.
4. Hassan ZakiDizaji, Fabio Mencarelli, Saeid Minaee and Andrea Bellincontro. (2009). Monitoring Storage stability of Pistachio nuts under various storage conditions with NIR AOTF. 10th Controlled and Modified Atmosphere Research Conference. Antalya. Turkey.
5. Zaki dizaji, H., Shahidi, S.K. and Zareh, M.J. (2003). Tillage management in order to control of weeds plant in corn sustainable cultivates. Symposium on sustainable agriculture guidelines. Varamin. Iran
6. Zaki dizaji, H., Modarresmotlagh, A. (2003). Analysis result of static and dynamic balancing of common crankshaft types in car manufactory industry. First student conference on agricultural machinery engineering. Urmia. Iran.
7. Zaki dizaji, H., Rahmanididar, A. and Zareh, M.J. (2003). Examination of aerodynamic properties to some importance seeds in agricultural industry. First student conference on agricultural machinery engineering. Urmia. Iran.
8. Zaki dizaji, H., Minaee, S. and Afkari sayyah, A.H. (2003). Effect of agricultural machinery on soil compaction. First student conference on agricultural machinery engineering. Urmia. Iran.
9. Zaki dizaji, H., Minaee, S. and Afkari sayyah, A.H. (2003). Determination of apparent elasticity coefficient and determination of elastic behavior model of Chickpea seed. First national Symposium on losses of agricultural products. Tehran. Iran.
10. Minaee, S., Zaki dizaji, H. and Afkari Sayyah, A.H. (2003). Determination of some Chick pea Physical and Mechanical Properties in Relation to Quantitative Losses. First national Symposium on losses of agricultural products. Tehran .Iran.
11. Zaki dizaji, H., Minaee, S. (2003). Determination of Chickpea Biophysical and Properties in Relation to Converting and Producing of Chick pea seed. 14th national congress of food industry. Tehran .Iran.
12. Zaki dizaji, H., Minaee, S. and Yousefzadeh Tahery, M.R. (2004). Design, development and test of blowing seed knockout. 3rd national congress of agricultural machinery and mechanization engineering. Kerman. Iran.
13. Zaki dizaji, H. and Minaee, S. (2004). Determination of effective parameters in air-jet seed knockout design for seed ejection. The 2nd Iranian Agricultural Students congress. Tehran .Iran.
14. Zaki dizaji, H. and Minaee, S. (2004). New method of seed singulation for pneumatic small-seed planters. The 2nd Iranian Agricultural Students congress. Tehran .Iran.
15. M.R. Yousefzadeh Taheri, H. Zaki dizaji and S. Minaei (2004). Investigation and determination of some biomechanical properties of chickpea kernel. The Joint Agriculture

- and Natural Resources Symposium, Tabriz – Ganja.
16. Zaki dizaji, H., Yousefzadeh Tahery, M.R and Minaee, S. (2004). Improvement of vacuum-precision planter in order to reducing losses in planting of small seeds. A prevention guideline of national resources wastes. Tehran .Iran.
 17. Mirzaei Moghadam, H., Tavakoli Hashjin, T., Minaei, S. and Zaki Dizaji, H. (2004) Evaluations of some quality properties of kiwi effect as moisture, ripeness level and variety. 4th Regional scientific researching congress. Mashhad. Iran.
 18. ZakiDizaji H., AmiriChaichian R. and Minae S. (2005) Prediction of apparent modulus of elasticity for chickpea kernel by back propagation algorithm. 15th national congress of food industry. Tehran .Iran.
 19. Zaki dizaji, H. and Minaee, S. (2005). Development and testing of an air-jet seed knockout device for pneumatic precision planters. The 13th Annual (International) Conference of Mechanical Engineering (ISME 2005), Isfahan University of Technology, Iran.
 20. ZakiDizaji, H., AmiriChaichian, R., Khoshtagaza, M.R., Tavakoli Hashjin T., Shahi, T. and Memar, R.(2006).Effect of moisture content and loading rate on fracture force and absorbed energy of soybean kernel. 1st Regional and 16th National Congress of Iranian food industry. Gorgan. Iran.
 21. Shahi T., Tavakoli Hashjin T., Minae S. and ZakiDizaji H. (2006) Development and Testing of Alfalfa Chopper for Small Farms. 4th National congress on agricultural machinery and mechanization. Tabriz. Iran.
 22. MohamadNikbakht A., Minae S., Gobadian Barat and ZakiDizaji H.(2006) Study of Soil Mechanical Parameters using Horizontal Sensor. 4th National congress on agricultural machinery and mechanization. Tabriz. Iran.
 23. ZakiDizaji H., AmiriChaichian R. and Minae S. (2006) Comparison 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 and mechanization. Tabriz. Iran.
 24. Zaki Dizaji, H., Mohamadnikbakht, A., Minaei, S., and Tavakkoli Hashtjin T. (2007). Investigation of nondestructive methods for determination of quality of agricultural products with emphasis on ultrasonic testing. 17th National Congress of Iranian food industry. Urmia. Iran.
 25. Zaki Dizaji, H., Minaei, S, Mokhtari, M. Tavakkoli Hashtjin T. and Montazer, A. (2008). An ultrasonic investigation of agricultural product quality. 5th National congress on agricultural machinery and mechanization (5ncame), Mashhad. Iran.
 26. Zaki Dizaji, H., Minaei, S, Mokhtari, M. and Tavakkoli Hashtjin T. (2008). Evaluation of Ultrasonic Indexes of Pomegranate Fruit for Determination of Quality. 18th national congress of food industry. Mashhad. Iran.
 27. Zaki Dizaji, H., Minaei, S., Mokhtary, M. and Tavakkoli Hashtjin T. (2009). Development of an ultrasonic device for investigation of agricultural product quality. 6th International Postharvest Symposium. Antalya. Turkey.
 28. Hassan ZakiDizaji, Fabio Mencarelli, Saeid Minaee and Andrea Bellincontro. (2009). Monitoring Storage stability of Pistachio nuts under various storage conditions with NIR AOTF. 10th Controlled and Modified Atmosphere Research Conference. Antalya. Turkey.
 29. Zaki Dizaji, H., Minaei, S., (2009). Development of an ultrasonic device for non-destructive investigation of agricultural product quality. Send to International Conference on Agricultural Engineering & Industry Exhibition, Crete, Greece.
 30. Shadi Poursaeidi, Hassan ZakiDizaji, Houshang Bahrani (2012). Effect of ultrasonic waves as a pre-treatment on total time in drying of tomato. The first Middle East Drying Conference. Mahshar, Iran.
 31. Ali Bageri Ashena Mohamad Esmaeil Khorasani Ferdavani, Houshang Bahrani and Hassan Zaki Dizaji (2016), the study on heat transfer and mass flow of fin-tube radiator in john Deere combine diesel engine with E-NTU method, Ramin university, 05-11-2016
 32. Azam rezaei, Hassan Masoudi, Hassan Zaki Dizaji and Mohamad Esmaeil Khorasani Ferdavani (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). Age University, Ezmir, Turkey.
33. Hassan Zaki Dizaji and Nasim Monjezi (2017). Data mining in agricultural mechanization: using decision tree method for output energy prediction of greenhouse cucumber production. The 13th International Congress on Mechanization and Energy in Agriculture (AGME2017). Age University, Ezmir, Turkey.
 34. M. Hosseini, H. Zaki Dizaji*, M. Taghavi, A.A. Babaei (2018) Extraction of Cellulose Nanofibril (CNF) From Agricultural residues. Proceedings of the 7th International Conference on Nanostructures (ICNS7) Tehran, Iran.
 35. 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). <https://civilica.com/doc/1005469>
 36. 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) <https://civilica.com/doc/1005671>
 37. Veismoradi, A., Khorasani Fardevani, M.E., Zaki Dizaji, H., 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>
 38. 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). <https://civilica.com/doc/1005469>
 39. 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>
 40. Rezaei A., Masoudi H., Zaki Dizaji H. and Khorasani M.E. (2016). Static and Vibration Analysis of Rear Axle in Combine using Finite Element Method, 2th National Congress of Curriculum Vitae Mechanization and New Technologies in Agriculture, Ahvaz, Iran. (In Persian with English Abstract). <https://civilica.com/doc/53358417>
 41. 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). <https://civilica.com/doc/533564>
 42. 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) <https://civilica.com/doc/53358120> .
 43. Bagheriashena, A., Khorasani Fardevani, M.E., Bahrami, H. and ZakiDizaji H. (۲۰۱۶) . 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). <https://civilica.com/doc/533530>
 44. 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).
 45. 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).

46. 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>
47. 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).
48. 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).
49. Khorasani Ferdavani, 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). <https://civilica.com/doc/176545>

RESEARCH PROJECTS:

1. Zaki Dizaji, H., (2011), Development and Evaluation of Ultrasonic Device for Quality Determination of Agricultural Products, Shahid Chamran University of Ahvaz, Iran. Project number:104.
2. Zaki Dizaji, H., (2013), Feasibility of design and development of a Palm Dates tree climbing robot mechanism. Shahid Chamran University of Ahvaz, Iran Project number: 1217.
3. Zaki Dizaji, H., Khorasani Ferdavani, M.E., (2019), 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: 1262.
4. Zaki Dizaji, H., Monjezi, N. (2016), Energy and yield modeling of sugarcane production by using Data Mining Technique in Amir Kabir Agro-Industry. Shahid Chamran University of Ahvaz, Iran. Project number: 1273.
5. Bahrami, H and Zaki Dizaji, H. (2017), Investigating effective factors on sugarcane production performance to increase the production of sugarcane. Shahid Chamran University of Ahvaz, Iran. Project number: 1274.
6. Zaki Dizaji, H. (2018), Evaluation of loss resources during sugarcane production process by using of Analytical Hierarchy Process (AHP) and provide solutions to reduce waste. Shahid Chamran University of Ahvaz, Iran. Project number: 1284.
7. Safieddin Ardebili, S.M., Zaki Dizaji, H., and Sheikhdavoodi, M.J. (2019). Continuous flow production of biodiesel using microwave technique. Shahid Chamran University of Ahvaz, Iran. Project number: 1303.
8. Zaki Dizaji H., Mahmoudi Sorestani M. (2021). Design and implementation of a machine olfaction system for quality assessment of Mentha. Shahid Chamran University of Ahvaz, Iran. Project number: 1306.

PATENTS:

The Roto-oscillation pneumatic seed singulator, National Patent Organization, Iran, 9 Feb. 2004

Curriculum Vitae



Ultrasonic Fruit Qualimeter, National Patent Organization, Iran, 10 Oct. 2007

PROFESSIONAL MEMBERSHIPS:

- Member of Iranian Society of Agricultural Machinery and Mechanization Engineers
- Member of the Board of Iranian Society of Agricultural Machinery and Mechanization Engineers
- Member of Iranian Association of Mechanical Engineers
- Member of Scientific Society of Iranian Sugarcane Technology
- Member of Iranian Combustion Association

LANGUAGES:

PERSIAN: NATIVE

ENGLISH: GOOD

AZARI: NATIVE

TURKISH: GOOD

ARABIC: MEDIUM

ITALIAN: MEDIUM