

In the name of God

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EDUCATION

1993-1997	Ph.D. in Mechanical Engineering, Concordia University, Montreal, <i>Canada</i>
1988 – 1991	M.Sc. in Mechanical Engineering, Sharif University of Technology, Tehran, <i>Iran</i> .
1984 – 1988	B.Sc. in Mechanical Engineering, Sharif University of Technology, Tehran, <i>Iran</i> .

EXPERIENCES

2024- Continue	Head of Alborz Campus, University of Tehran
2023- Continued	Editor in Chief, Journal of Iranian Journal Biosystems Engineering, University of Tehran
2017-2022	Head of Fouman Faculty of Engineering, College of Engineering, University of Tehran
2022- Continued	Editorial Board, Journal of Agricultural Machinery, University of Ferdowsi University of Mashhad, Iran
2019- Continued	Editorial Board, Journal of researches in Mechanics of Agricultural Machinery, University of Sharekord, Iran

2017- Continued	Associate Fellow, Division of Agricultural Machinery, Department of Agricultural Sciences, Academy of Sciences of Iran
2017-2023	Dean of Fouman Faculty of Engineering, College of Engineering University of Tehran
2014-2017	Vice President-Administration, Alborz Campus, University of Tehran
2009- Continued	Professor of Mechanical Engineering, University of Tehran, Tehran, Iran.
2003-2008	Associate Professor of Mechanical Engineering, University of Tehran, Iran.
1998-2002	Assistant Professor of Mechanical Engineering, University of Tehran, Iran.
2013-2016	Adjunct Professor of Standard Research Institute, ISIRI, Tehran, Iran.
2011-2016	Adjunct Professor, College of Engineering, School of Mechanical Engineering, University of Tehran, Iran.
2013-2017	Member of Publication Center, University of Tehran, Tehran, Iran.
2008-2012	Head, Department of Mechanics of Agricultural Machinery, University of Tehran.
2007-2008	Deputy Head, Department of Mechanics of Agricultural Machinery, University of Tehran, Tehran. Iran.
2006-2007	Graduate Program Coordinator, Department of Mechanics of Agricultural Machinery, University of Tehran, Tehran. Iran

Areas of Specialization and Research Interests

1. Machine Vision, Machine Olfaction (Electronic Nose) and Electronic Tongue, Food Safety and adulteration,
2. **Industrial Automation**
3. Precision Agriculture
4. **Dynamic Systems and Control, Robotics**
5. Hydraulics and Pneumatics Systems

Current Teaching

-
1. Design of Hydraulic Systems, B.Sc.
 2. Dynamics, B.Sc.
 3. Hydraulic Systems in Agricultural Machinery, B.Sc
 4. Mechanical Vibrations, B.Sc.
 5. Design of Mechanisms, M.Sc.
 6. Dynamics of Machine, M.Sc
 7. Sensors in Food Industry, M.Sc.
 8. Advanced Hydraulic Systems, M.Sc.
 9. Advanced Control Systems, Ph.D.
 - 10. Automation in Agricultural Machinery, Ph.D**
 - 11. Industrial Automation, Ph.D**

Translated Books

1. Power Hydraulics, Azad University Publication, 2002.
2. Power Pneumatics, Azad University Publication, 2003.
3. Automobile Electronics, Azad University Publication, 2004.
4. Introduction to NanoTechnology, University of Tehran Publication, 2009.
5. Encyclopedia of Agricultural, Food and Biological Engineering, 2016.
6. Deep Learning, University of Tehran Publication, 2023.

Papers in International Journals

1. **"Mohtasebi, S.S. "**and Hong, H., (1999), "Low Cost Electronically Controlled Fuel Metering System for Small Gas Turbine Engines", SAE Transactions, Journal of Engines, Sec.3, Vol. 108, pp. 766-774, 1999.**ISI.**
2. **"Mohtasebi, S.S. "**, Hong, H. and Krepec, T., (1999), "New Electronic Controlled Continuous Flow Metering Systems for Automotive Applications", CSME Transactions, Vol.23, No.2, pp. 321-337, Aug. 1999.**ISI. Scopus.**
3. **"Mohtasebi, S.S. "**, Keyhani, A., Rahimi, M., (2005), "Simulation, Testing and Sensitivity Analysis of Fuel Pressure Regulator for MPFI Paykan 1600cc, Journal of Applied Science, Vol. 5, No. 4, pp 781-786- Dec. 2005. **Scopus.**

4. **"Mohtasebi, S.S."** Behroozi-Lar, M., Rabbani, H., (2005), "Determination of Terminal Velocity for Chickpea", Journal of Agricultural Mechanization in Asia, Africa and Latin America, Vol. 36, No. 1, pp 87-88, 2005.
5. **"Mohtasebi, S.S."**, Behroozi- Lar, M., Nafari-Ghaleh, A., (2005), "Description and Analysis of A New Air Pump for Agricultural Irrigation", International Journal of Agriculture and Biology, Vol. 7, No. 4, pp 601-603, 2005.
6. Khazaei, J., Rajabi Pour, A., **"Mohtasebi, S. S."**(2005), "Effect of Moisture Content on Density and Porosity of two Varieties of Chickpea Grains and Stalks", Lucari Stiintifice, Vol. 48, seria Agronomie, pp 253-262, July 2005.
7. **"Mohtasebi, S.S."** Afshari, H., Mobli, H., (2006), "Analysis of Crank Shafts Vibration to Compare the Dynamic Behavior of Steel and Cast Iron Crank Shafts, Journal of Applied Science, Vol. 6, No. 3, pp 591-594, 2006. **Scopus.**
8. **"Mohtasebi, S. S."**, Behrouzi Lar, M., Alidadi, J., Besharati, K., (2006), " A New Design for Grain Combine Thresher", International Journal of Agriculture and Biology, Vol. 8, No. 5, pp 680-683, 2006.
9. Jafari, A., **"Mohtasebi, S. S."**, Eghbali Jahromi, H., Omid, M., (2006)," Weed Detection in Sugar Beet Fields Using Machine Vision", International Journal of Agriculture and Biology, Vol. 8, No. 5, pp 602-605, 2006.
10. **"Mohtasebi, S. S."**, Hosseinzadeh, A., Omid, M., Abolfathi, N., (2007), "Design and Evaluation of Automatic Agricultural Land Leveling Control System for Scraper", International Journal of Agriculture and Biology, Vol. 9, No. 1, pp 59-63, 2007.
11. Kermat Jahromi, M., Jafari, A., Rafiee, S., Keyhani, A. R., Mirasheh, R., **"Mohtasebi, S. S."**, "Some Physical Properties of Date Fruit (cv. Lasht)", Agricultural Engineering International, the CIGR Ejournal, Manuscript FP 07 019, Vol. IX, August 2007.
12. Kermat Jahromi, M., Rafiee, S., Mirasheh, R., Jafari, A., **" Mohtasebi, S. S."**, Ghasemi Varnamkhasti, M., "Mass and Surface Area Modeling of Bergamont (Citrus Medica) Fruit with some Physical Attributes", Agricultural Engineering International, the CIGR Ejournal, Manuscript FP 07 029, Vol. IX, October 2007.

13. Kermat Jahromi, M., Jafari, A., Rafiee, Sh, and "**Mohtasebi, S. S.**", " A survey on Some Physical Properties of the Date Palm Tree" An International Journal of Agricultural Technology, 3,2, 317-322, 2007.
14. Maleki, A, "**Mohtasebi, S. S.**", Akram, A, Esfahanian, V., (2008), "Investigation and Analysis of Driver Weight on his Health and Comfort in three commonly used Tractors in Iran", CIGR-Ejournal, 101 01-08, 2008.
15. Kermat Jahromi, M., Jafari, A., Rafiee, Sh, Mirasheh, R., and "**Mohtasebi, S. S.**", "Changes in Physical Properties of Date Fruit (cv. Shahani) During Three Edible Stages of Ripening" , Journal of Agriculture & Environment Science, 3(1):132-136, 2008.
16. Kermat Jahromi, M., Jafari, A., Rafiee, Sh, Mirasheh, R., and "**Mohtasebi, S. S.**", " Mass Modeling of Date Fruit (cv. Zahedi) with some physical Characteristics", Journal of Agriculture & Environment Science, 3(1):127-131, 2008.
17. "**Mohtasebi, S. S.**", Behroozi Lar, M., Safa, M., and Chaichi, R., (2008), "Comparison of Direct and Indirect Energy Coefficients for Seeding and Fertilizing in Irrigated Wheat Production" World Applied Sciences Journal, 3(3): 353-358, 2008.
18. Mohamadi Monavar, H., Ahmadi, H., "**Mohtasebi, S. S.**", Hasani, S., (2008), "Vibration Condition Monitoring Techniques for Fault Diagnosis of Electromotor with 1.5 kw Power", Journal of Applied Sciences, 8(7):1268-1273, 2008. Scopus.
19. Keramat Jahromi, M., Jafari, A., "**Mohtasebi, S. S.**", and Rafiee, Sh., (2008), "Engineering Properties of Date Palm Trunk Applicable in Designing a Climber Machine", CIGR-Ejournal, Manuscript FP 08 002. Vol. X. March 2008.
20. Mireei, S. A., "**Mohtasebi, S. S.**", Omid, M., and Alimardani, Reza., (2008), "Modeling, Dynamic Analysis and Optimization of Budsan Truck Engine Mount", Journal of Applied Sciences, 8(13):2369-2377, 2008. Scopus.
21. Mohamadi Monavar, H., Ahmadi, H., and, "**Mohtasebi, S. S.**", (2008), "Prediction of Defects in Roller Bearings Using Vibration Signal Analysis", World Applied Sciences Journal, 4(1):150-154, 2008.

22. Keramat Jahromi M , Rafiee. Sh, Jafari, A., Ghasemi Bousejin, M. R., Mirasheh, R., and" **Mohtasebi, S. S.**" " Some Physical Properties of Date Fruit (cv. Dairi)" International Agrophysics, 22, 221-224, 2008.**ISI. Scopus.**
23. Nazari Galedar, M., Jafari, A., "**Mohtasebi, S. S.**", Tabatabaeefar, A., Sharifi, A., O'Dogherty, M. J., Rafiee, S., and Richard, G. (2008), " Effects of Moisture Content and Level in the Crop on the Engineering Properties of Alfalfa Stems", Biosystems Engineering 101, 199-208, Oct. 2008. **ISI. Scopus.**
24. Omid, M., "**Mohtasebi, S. S.**", Mireei, S. A. and Mahmoodi, E. (2008), "Fatigue Analysis of Connecting Rod of U650 Tractor in the Finite Element Code Ansys" Journal of Applied Sciences, 8(23), 4338-4345, 2008.**Scopus.**
25. Tavakoli, H., "**Mohtasebi, S. S.**" and Jafari, A. (2008), "Comparison of Mechanical Properties of Wheat and Barley Straw", CIGR Ejournal, Manuscript number CE 12 002. Vol. 10, 2008.
26. Oveisi, Z., "**Mohtasebi, S. S.**", Esfahanian, V. and Keyhani, A. (2009), "An Introduction of a New Spark Advanced Control Algorithm Using Boost Simulation and Cylinder Pressure", Journal of Applied Sciences, 9(3), 573-577, 2009.**Scopus.**
27. Keramat Jahromi, M., "**Mohtasebi, S. S.**", Jafari, A., Mirasheh, R. and Rafiee, Sh, "Determination of Some Physical Properties of Date Fruit (cv. Mazafati)", Journal of Agricultural Technology, 4(2), 1-9, 2008.
28. Tavakoli, H., Rajabipour, A., and "**Mohtasebi, S. S.**" (2010), "Moisture Dependent Some Engineering Properties of Soybean Grains", CIGR Ejournal, Manuscript 1110. Vol. XI. February, 2009.
29. Nazari Galedar, M., Tabatabaeefar, A., Jafari, A., Sharifi, A., Rafiee, S. and "**Mohtasebi, S. S.**" , " Influence of Moisture Content, Rate of Loading and height regions on Tensile Strength of Alfalfa Stems", International Agrophysics, 23, 27-30, 2009.**ISI. Scopus.**
30. Tavakoli, H., "**Mohtasebi, S. S.**" and Jafari, A. "Effect of Moisture Content and Loading Rate on the Shearing Characteristics of Barley Straw by Internode Position", (2009), CIGR Ejournal, Manuscript 1176. Vol. XI. March 2009.

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32. Ahmadi, H., Mollazade, K., Khorshidi, J. "**Mohtasebi, S.S.**", and Rajabipour, A., "Some Physical and Mechanical Properties of Fennel Seed", *Journal of Agricultural Sciences*, 1(1), 66-75, June 2009.

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37. Ghasemi Varnamkhasti, M., "**Mohtasebi, S. S.**", Siadat, M. andBalasubramanian, S. (2009), "Meat Quality Assessment by Electronic Nose (Machine Olfaction Technology)", *Sensors*, 9, 6058-6083, August2009.**ISI. Scopus.**

38. Tavakoli, H.,"**Mohtasebi, S. S.**", Rajabipour, A. and Tavakoli, M. (2009), " Effects of Moisture Content, Loading Rate and Grain Orientation on Fraction Resistance of Barley Grain", *Research Agriculture Engineering*, 55(3), 85-93, 2009.**Scopus.**

39. Mollazade, K., Ahmadi, H., Khorshidi, J., Rajabipour, A. and "**Mohtasebi, S. S.**" "Moisture Dependent Physical and Mechanical Properties of cumin seed" *International Journal of Agriculture and Biological Engineering*, 2(2), 49-56, 2009.

40. "**Mohtasebi, S. S.**", Ghasemi Varnamkhasti, M., Mohtasebi, S. M. and Zabolostani, M., (2009), "Investigation of Internal Combustion Engine Vibrations in order to

Reduce Noise using a Developed Model”, Journal of Food, Agriculture & Environment, 7(3), 925-929, July 2009.**ISI. Scopus.**

41. Ghasemi Varnamkhasti, M., "**Mohtasebi, S. S.**", Ahmadi, H., and Razavi, S. H., “ Electronic Mouth: A new Technology for Agro-Food Evaluation”, Crop Research, 38(1,2 &3): 294-296, 2009.
42. Shahbazi, F., Rajabipour, A., "**Mohtasebi, S. S.**" and Rafiee, Sh., (2010), “ Simulated In Transient Vibration Damage to Watermelons”, Journal of Agricultural Science Technology (JAST), 12, 23-34, Jan. 2010.**ISI. Scopus.**
43. Mohammadi, A., Rafiee, Sh., "**Mohtasebi, S. S.**", and Rafiee, H., (2010), “Energy Inputs- Yield Relationship and Cost Analysis of Kiwifruit Production in Iran”, Renewable Energy, 35, 1071-1075, May 2010.**ISI. Scopus.**
44. Abbasgholipour, M., Omid, M., Keyhani, A. and "**Mohtasebi, S. S.**" (2010), “ Sorting Raisins by Machine Vision System”, Modern Applied Science, 4(2), 49-60, February 2010.
45. Omid, M., Abbasgholipour, M., Keyhani, A. and "**Mohtasebi, S. S.**", (2010), “Implementation of an Efficient Image Processing Algorithm for Grading Raisins”, International Journal of Signal and Image Processing 1(1), 31-34, 2010.
46. Ghasemi Varnamkhasti, M., "**Mohtasebi, S. S.**", Ahmadi, H., Luz Rodriguez Mendez, M., Siadat, M. and Razavi, S. H., (2009), Consistency Assessment of Bitterness Sensory Evaluation Data for Non Alcoholic Beer, Research on Crops, 10(3), 736-739, 2009.**ISI.**
47. Rafiee, sh., Sharifi, M., Keyhani, A., Omid, M., Jafari, A., "**Mohtasebi, S. S.**", Mobli, H., “Modeling Effective Moisture Diffusivity of Orange Slice (Thompson CV.)”, International Journal of Food Properties, 13:32-40, 2010.**ISI. Scopus.**
48. Kheiralipour, K., Tabatabaeefar, A., Mobli, H., "**Mohtasebi, S. S.**", Rafiee, S., Rajabipour, A., Jafari, A., (2010), “Terminal Velocity and its Relationship to Physical Characteristics of Apple (Malus Domestica Borkhl.)”, International Journal of Food Properties, 13:261-271, 2010.**ISI. Scopus.**
49. Dehroueh, M. H., Omid, M., Ahmadi, H., "**Mohtasebi, S. S.**" and Jamzad, M., (2010), “Grading and Quality Inspection of Defected Eggs Using Machine Vision”, International Journal of Advanced Science and Technology, Vol. 16, 23-30, March 2010.

50. Noroozi Ghale Babakhani, A., Ghobadian, B., Salahshoor, K. and "Mohtasebi, S. S."(2010), "An Innovative Design of Actuation Mechanism for Active Seat Suspension of an off-road Vehicle", Journal of Vibroengineering, Vol. 12, No. 1, March 2010.**ISI. Scopus.**
51. Mireei, S. A., "Mohtasebi, S. S.", Massudi, R., Rafiee, Sh, Arabanian, S. and Berardinelli, (2010), A., "Non Destructive Measurement and Soluble Solids Content of Mazafati Date Fruit by NIR Spectroscopy", Australian Journal of Crop Science, 4(3):175-179, April 2010.**ISI. Scopus.**
52. Zareiforush, H., "Mohtasebi, S. S.", Tavakoli, H. and Alizadeh M. R., (2010), "Effect of Loading Rate on Mechanical Properties of Rice (*Oryza Sativa* L.) Straw", Australian Journal of Crop Science, 4(3):190-195, April 2010.**ISI. Scopus.**
53. Hasani, S. H., Jafari, A., "Mohtasebi, S. S.", Setayesh, A. M., (2010), "Transient Heat Transfer Analysis of Hydraulic System for JD 955 Harvester Combine by Finite Element Method", Journal of Food, Agriculture & Environment, 8(2): 382-385, April 2010. **ISI.Scopus.**
54. Yaghobi, M. and" Mohtasebi, S. S.", "Design and Simulation of a new Bevel Multi Speed Gearbox for Automatic Gearboxes", Report and Opinion Journal, 2(3): 1-7, May 2010.
55. Yaghobi, M., "Mohtasebi, S. S.", "Static and Dynamic Simulation of a New High Deflection Constant Velocity U- Joint (Persian Joint)", Report and Opinion Journal, 2(5): 41-44, June 2010.
56. Omid, M., Lashgari, M., Mobli, H., Alimardani, R.," Mohtasebi, S. S." and Hesamifard, R., (2010), Design of Fuzzy Logic Control System Incorporating Human Expert Knowledge for Combine Harvester", Expert Systems with Applications, 37, 7080- 7085.**ISI.Scopus.**
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58. Ghasemi Varnamkhasti, M., "Mohtasebi, S. S.", and Siadat, M., (2010), "Biomimetic based Odor and Taste Sensing Systems to Food Quality and Safety

Characterization: An Overview on Basic Principles and Recent Achievements”,
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60. Tarighi, J., "**Mohtasebi, S. S.**", Heydari, H., and Abasghazvini, (2010)“ Physical Properties of Nectarine Fruit (cv. Sunking) to Characterize Best Post Harvesting Options”, Thai Journal of Agricultural Science 2010, 43(2):97-101.
61. Seyed Hasani, H., Jafari, A., "**Mohtasebi, S. S.** "and Setayesh, A. M., “Fatigue Analysis of Hydraulic Pump Gears of JD 955 Harvester Combine Through Finite Element Method”, Journal of American Science, 2010, 6(7), pp 62-67.
62. Safa, M., "**Mohtasebi, S. S.**", Behrooz Lar, M., and Ghasemi Varnamkhasti, M. “Energy Consumption in Production of Grains Prevalent in Saveh, Iran”, African Journal of Agricultural Research, 2010, 5(19), PP 2637-2646. **ISI.Scopus.**
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65. Fadavi, R., Keyhani, A. and "**Mohtasebi, S. S.**", (2010), “Estimation of a Mechanization Index in Apple Orchard in Iran”, Journal of Agricultural Science, 2010, 2(4), pp 180-185.
66. Mireei, S. A., "**Mohtasebi, S. S.**", Massudi, R., Rafiee, Sh, and Arabanian, A. S “Feasibility of Near Infrared Spectroscopy for Analysis of Dates Fruits”, International Agrophysics, 2010, 24,351-356. **ISI.**
67. Siah Mansouri, Y., Khazaei, J., Hassan Beygi, S. R., and "**Mohtasebi, S. S.**", Statistical Modeling of Pomegranate (*Punica Granatum L.*) Fruit with Some Physical Attributes”, Journal of Food Processing & Technology, 2010, 1:1, 1-4.

68. Abbasgholipour, M. Omid, M., Keyhani, A. and "**Mohtasebi, S. S.**", "Color Image Segmentation with Generic Algorithm in a Raisin Sorting System Based on Machine Vision in Variable Conditions", *Expert System with Applications*, April 2011, 38(1), 3671-3678. **ISI. Scopus.**
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70. Seyed Hasani, H., Jafari, A., Rafiee, Sh., "**Mohtasebi, S. S.**" and Setayesh, A. M., "Hydraulic System of JD 955 Combine Harvester as well as Presented Services based on Statistical Analysis" *Asian Journal of Agricultural Research*, 2011, 5(1), pp 67-75.**Scopus.**
71. Tarighi, J., "**Mohtasebi, S. S.**" and Alimardani, R., "Static and Dynamic Analysis of Front Axle Housing of Tractor using Finite Element Method", *Australian Journal of Agricultural Engineering*, March 2011, AJAE 2(2):45-49.
72. Yaghobi, M., "**Mohtasebi, S. S.**", Jafary, A. and Khaleghi, H., "Design, Manufacture and Evaluation of a New and Simple Mechanism for Transmission of Power between intersecting Shafts up to 135 Degrees (Persian Joint)", *Mechanism and Machine Theory*, July 2011, 46, pp 861-868. **ISI.**
73. Ghasemi Varnamkhasti, M., "**Mohtasebi, S. S.**" Rodriguez Mendez, M. L., Lozano, J. , Razavi, S. H., Ahmadi, H., "Potential Application of Electric Nose Technology in Brewery", *Trends in Food Science & Technology*, April 2011, 22(4), pp 165-174.**ISI.**
74. Ghasemi Varnamkhasti, M., "**Mohtasebi, S. S.**" Rodriguez Mendez, M. L., Siadat, M., Ahmadi, H. and Razavi, S. H., "Electronic and Bioelectronic Tongues, two Promising Analytical Tools for the Quality Evaluation of Non Alcoholic Beer", *Trends in Food Science & Technology*, April 2011, 22(5), pp 245-248.**ISI.**
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Controller in a Forced Convection Solar Dryer to Optimize the Overall Energy Efficiency”, *Journal of Agricultural Science and Technology (JAST)*, Vol. 13(4), pp 503-515. **ISI**.

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82. Ghasemi Varnamkhasti, M., "**Mohtasebi, S. S.**" Luz Rodriguez Mendez, M., Lozano, J., Razavi, S. H., Ahmadi, H., and Apetrei, C. (2012), “Classification of Non-alcoholic Beer based on Aftertaste Sensory Evaluation by Chemometric Tools”, *Expert Systems with Applications*, March 2012, 39, pp 4315-4327. **If: 2.195**.
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