



PERSONAL INFORMATION:

Full Name: Alireza Soleimanipour

Nationality: Iranian

Academic Level: Assistant Professor

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EDUCATION:

Ph.D.: University of Tehran, Mechanical Engineering in Agricultural Machinery
Sep 2012 - Apr 2018

M.Sc.: University of Tehran, Mechanical Engineering in Agricultural Machinery
Sep 2008 - Oct 2010

B.Sc.: Gorgan University of Agricultural Sciences and Natural Resources,
Mechanical Engineering in Agricultural Machinery
Sep 2004 - Aug 2008

RESEARCH INTEREST:

Agricultural Machinery Design and Engineering

Robotics and Intelligent Systems in Agriculture

Precision Agriculture

Machine Learning

Computer Vision

Deep Learning

Refereed Journals

Soleimanipour, A., Azadbakht, M., & Rezaei Asl, A. (2022). Cultivar identification of pistachio nuts in bulk mode through EfficientNet deep learning model. *Journal of Food Measurement and Characterization*, 1-11.

Soleimanipour, A., Chegini G. R. (2020). A vision-based hybrid approach for identification of Anthurium flower cultivars. *Computers and Electronics in Agriculture*, 174C (2020) 105460.

Soleimanipour, A., & Chegini, G. R. (2019). Three-dimensional reconstruction of cucumbers using a 2D computer vision system. *Journal of Food Measurement and Characterization*, 13(1), 571-578.

Soleimanipour, A., Chegini, G. R., Massah, J., & Zarafshan, P. (2019). A novel image processing framework to detect geometrical features of horticultural crops: case study of Anthurium flowers. *Scientia horticultrae*, 243, 414-420.

Soleimanipour, A., & Chegini, G. R. (2019). Design and Evaluation of an Image Processing Based Algorithm for Shape Reconstruction and Real-Time Measurement of Geometrical Dimensions of Anthurium Flower (in Persian). *Iranian Journal of Biosystem Engineering*, 49(4), 577-587.

Soleimanipour, A., Chegini, G., Zarafshan, P., & Massah, J. (2018). Curvature-based pattern recognition for cultivar classification of Anthurium flowers. *Postharvest biology and technology*, 139, 67-74.

Soleimanipour, A., Chegini, G., & Massah, J. (2018). Classification of Anthurium flower cultivars based on combination of PCA, LDA and SVM classifier. *Agricultural Engineering International: CIGR Journal*, 20(1), 219-228.

Soleimanipour, A., & Chegini, G. R. (2017). Design and fabrication of a pilot fermentation oven for monitoring the dynamic density of bread dough (in Persian). *Food Science and Technology*, 14(71), 281-289.

Pour-Damanab, A. S., Jafary, A., & Rafiee, S. (2014). Kinetics of the crust thickness development of bread during baking. *Journal of food science and technology*, 51(11), 3439-3445.

Pour-Damanab, A. S., Jafary, A., & Rafiee, S. (2013). Determination of suitable drying curve model for bread moisture loss during baking. *International agrophysics*, 27(2), 233-237.

Pour-Damanab, A. S., Jafary, A., & Rafiee, S. (2011). Monitoring the dynamic density of dough during fermentation using digital imaging method. *Journal of food engineering*, 107(1), 8-13.

Conferences:

Soleimanipour, A., & Chegini, G. R. (2019). Design and implementation of algorithms to control a fruit grading machine. *1st National Conference of Applied Mechanical Engineering*, Mar 4, 2019, Pakdasht, Iran.

Soleimanipour, A., & Chegini, G. R. (2019). Investigation, selection and placement of electronic components of a control system for a fruit grading machine. *1st National Conference of Applied Mechanical Engineering*, Mar 4, 2019, Pakdasht, Iran.

Motamedi, M., Zarafshan, P., & Soleimanipour, A. (2019). Performance assessment of a cucumber fruit grading machine using video processing. *1st National Conference of Applied Mechanical Engineering*, Mar 4, 2019, Pakdasht, Iran.

Motamedi, M., Zarafshan, P., Chegini, G. R., & Soleimanipour, A. (2019). Design and fabrication of a pneumatic ejecting system for a fruit grading machine. *5th International Conference on Applied Research in Electrical, Mechanical & Mechatronics Engineering*, Jan 24-25, 2019, Tehran, Iran.

Motamedi, M., Zarafshan, P., Chegini, G. R., & Soleimanipour, A. (2019). *Cucumber sorting using computer vision*. *5th International Conference on Applied Research in Electrical, Mechanical & Mechatronics Engineering*, Jan 24-25, 2019, Tehran, Iran.

Soleimanipour, A., Chegini, G. R., Massah, J., & Zarafshan, P. (2019). Design, Fabrication and Evaluation of a Flower Grading Machine, Equipped with a Cultivar Classification System; Hardware. *11th National Congress on Biosystem Engineering and Mechanization*, Sep 3-5, 2018, Hamedan, Iran.

Soleimanipour, A., Chegini, G. R., Massah, J., & Zarafshan, P. (2019). Design, Fabrication and Evaluation of a Flower Grading Machine, Equipped with a Cultivar Classification System; Software. *11th National Congress on Biosystem Engineering and Mechanization*, Sep 3-5, 2018, Hamedan, Iran.

Soleimanipour, A., & Chegini, G. R. (2016). Spadix region segmentation in Anthurium flower images using Viola-Jones algorithm. *10th National Congress on Biosystem Engineering and Mechanization*, Aug 30-31, 2016, Mashhad, Iran.

Soleimanipour, A., & Chegini, G. R. (2016). Application of biospeckle laser technique in quality evaluation of agricultural products: a review. *10th National Congress on Biosystem Engineering and Mechanization*, Aug 30-31, 2016, Mashhad, Iran.

Soleimanipour, A., & Chegini, G. R. (2016). Design and fabrication of a pilot fermentation oven for monitoring the dynamic density of bread dough. *Conference on Science & Technology of Cereals, Bread & Flour Products*, Nov 2-3, 2016, Mashhad, Iran.

Soleimanipour, A., (2012). Selling scientific accomplishments of elites, factors and strategies. *1st National Conference on Elites Affairs*, Oct 2-3, 2012, Tehran, Iran.

Hosseinpour, M., Tour Savadkouhi, S., & Soleimanipour, A. (2012). Non-destructive testing technologies in physical properties assessment of agricultural products. *7th National Congress on Biosystem Engineering and Mechanization*, Sep 4-6, 2012, Shiraz, Iran.

Hosseinpour, M., Ebrahimi, R., Tour Savadkouhi, S., & Soleimanipour, A. (2012). Comparison of ethanol and gasoline performance using thermodynamic simulation of Miller cycle in internal combustion engines. *7th National Congress on Biosystem Engineering and Mechanization*, Sep 4-6, 2012, Shiraz, Iran.

Patents:

Computer Vision-based Machine for Flowers Grading. *Registered at Iran Intellectual Property Office*, Nov 16, 2018.

Pilot Fermentation Oven. *Registered at Iran Intellectual Property Office*, Feb 28, 2012.

Books:

The Persian translation of the "Charting a course for a successful research career, By Alan M. Johnson". *Published by Elsevier BV*, ISBN: 978-94-91598-00-5.

ACADEMIC TEACHING EXPERIENCE:

Gorgan University of Agricultural Sciences and Natural Resources

Machine Vision, Strength of Materials, Manufacturing Technology, Agricultural Machinery Design, Thermodynamics, Energy and material balance, Computer Aided Engineering;

Feb 2021 – Present

University of Tehran

Programmable Logic Controllers, Electronics, Advanced Measurements Systems, Electromechanical Energy Conversion, Physics, Machine Tool;

Sep 2017 – Jan 2021

Islamic Azad University

Programming, Fluids Mechanics, Heat Transfer, HVAC-R Systems, Auto Mechanics, CAD;

Feb 2012 – Jan 2018

University of Applied Science and Technology

Manufacturing Technology, Mechanical Engineering Design, CAD/CAM, HVAC-R Systems;

Sep 2013 – Jan 2021

SERVICE AND PROFESSIONAL MEMBERSHIP:

Iranian Society of Agricultural Machinery Engineering and Mechanization

AWARDS:

TPC Member & Reviewer for the 3rd and 4th Conference on Development and Promotion of Iranian Agriculture, Natural Resources and Environment

Reviewer for the 17th, 18th and 19th Exhibition of Research, Technology Achievements and Techmart

Editorial Board Member for Artificial Intelligence Evaluation (AIE Wiserpublish) journal; 2016-2019

TPC Member & Reviewer for the 2nd International Conference on Artificial Intelligence and Software Engineering (AISE 2018)

Reviewer of several academic journals

LANGUAGES: Persian (native), English (fluent)