# Yousef Abbaspour-Gilandeh

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7181102/publications.pdf

Version: 2024-02-01

| 94 | 1,819 | 236833 | 360920 |
|---|---|---|---|
| papers | citations | 25 h-index | 35 g-index |

| 96 | 96 | 96 | 1378 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | ANFIS and ANNs model for prediction of moisture diffusivity and specific energy consumption potato, garlic and cantaloupe drying under convective hot air dryer. Information Processing in Agriculture, 2018, 5, 372-387. | 2.9 | 83 |
| 2 | A fast and accurate expert system for weed identification in potato crops using metaheuristic algorithms. Computers in Industry, 2018, 98, 80-89. | 5.7 | 79 |
| 3 | The effect of ultrasound preâ€treatment on quality, drying, and thermodynamic attributes of almond kernel under convective dryer using ANNs and ANFIS network. Journal of Food Process Engineering, 2018, 41, e12868. | 1.5 | 73 |
| 4 | Prediction kinetic, energy and exergy of quince under hot air dryer using ANNs and ANFIS. Food Science and Nutrition, 2020, 8, 594-611. | 1.5 | 68 |
| 5 | Artificial Neural Network and stepwise multiple range regression methods for prediction of tractor fuel consumption. Measurement: Journal of the International Measurement Confederation, 2011, 44, 2104-2111. | 2.5 | 62 |
| 6 | The effect of microwave and convective dryer with ultrasound preâ€treatment on drying and quality properties of walnut kernel. Journal of Food Processing and Preservation, 2019, 43, e14178. | 0.9 | 58 |
| 7 | Classification of soil aggregates: A novel approach based on deep learning. Soil and Tillage Research, 2020, 199, 104586. | 2.6 | 53 |
| 8 | Detection of sunn pest-damaged wheat samples using visible/near-infrared spectroscopy based on pattern recognition. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 203, 308-314. | 2.0 | 49 |
| 9 | Comparison of different drying techniques and their carbon emissions in green peas. Chemical Engineering and Processing: Process Intensification, 2021, 160, 108274. | 1.8 | 49 |
| 10 | Application of machine vision for classification of soil aggregate size. Soil and Tillage Research, 2016, 162, 8-17. | 2.6 | 48 |
| 11 | Drying kinetic, quality, energy and exergy performance of hot air-rotary drum drying of green peas using adaptive neuro-fuzzy inference system. Food and Bioproducts Processing, 2020, 124, 168-183. | 1.8 | 38 |
| 12 | Weed Classification for Site-Specific Weed Management Using an Automated Stereo Computer-Vision Machine-Learning System in Rice Fields. Plants, 2020, 9, 559. | 1.6 | 37 |
| 13 | Determination of physical and mechanical properties of carrot in order to reduce waste during harvesting and postâ€harvesting. Food Science and Nutrition, 2018, 6, 1898-1903. | 1.5 | 35 |
| 14 | An automatic visible-range video weed detection, segmentation and classification prototype in potato field. Heliyon, 2020, 6, e03685. | 1.4 | 34 |
| 15 | Detection of fraud in ginger powder using an automatic sorting system based on image processing technique and deep learning. Computers in Biology and Medicine, 2021, 136, 104764. | 3.9 | 34 |
| 16 | Machine vision system for the automatic segmentation of plants under different lighting conditions. Biosystems Engineering, 2017, 161, 157-173. | 1.9 | 32 |
| 17 | Combined Hot Air, Microwave, and Infrared Drying of Hawthorn Fruit: Effects of Ultrasonic Pretreatment on Drying Time, Energy, Qualitative, and Bioactive Compoundsâ€™ Properties. Foods, 2021, 10, 1006. | 1.9 | 30 |
| 18 | A new approach for visual identification of orange varieties using neural networks and metaheuristic algorithms. Information Processing in Agriculture, 2018, 5, 162-172. | 2.9 | 28 |

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|---|---|---|---|
| 19 | Impact of different drying methods on the drying time, energy, and quality of green peas. Journal of Food Processing and Preservation, 2021, 45, e15503. | 0.9 | 28 |
| 20 | Assessment of physical, mechanical, and hydrodynamic properties in reducing postharvest losses of cantaloupe (<scp>Cucumis melo</scp> var. Cantaloupensis). Journal of Food Process Engineering, 2019, 42, e13091. | 1.5 | 27 |
| 21 | An Automatic Non-Destructive Method for the Classification of the Ripeness Stage of Red Delicious Apples in Orchards Using Aerial Video. Agronomy, 2019, 9, 84. | 1.3 | 27 |
| 22 | Impacts of hybrid (convectiveâ€infraredâ€rotary drum) drying on the quality attributes of green pea. Journal of Food Process Engineering, 2020, 43, e13424. | 1.5 | 27 |
| 23 | A Combined Method of Image Processing and Artificial Neural Network for the Identification of 13 Iranian Rice Cultivars. Agronomy, 2020, 10, 117. | 1.3 | 27 |
| 24 | Mass transfer, physical, and mechanical characteristics of terebinth fruit (Pistacia atlantica L.) under convective infrared microwave drying. Heat and Mass Transfer, 2018, 54, 1879-1899. | 1.2 | 26 |
| 25 | The effect of the tractor driving system on its performance and fuel consumption. Energy, 2020, 202, 117803. | 4.5 | 26 |
| 26 | Predicting soil fragmentation during tillage operation using fuzzy logic approach. Journal of Terramechanics, 2015, 57, 61-69. | 1.4 | 25 |
| 27 | Development of a novel machine vision procedure for rapid and non-contact measurement of soil moisture content. Measurement: Journal of the International Measurement Confederation, 2018, 121, 179-189. | 2.5 | 25 |
| 28 | Using video processing to classify potato plant and three types of weed using hybrid of artificial neural network and partincle swarm algorithm. Measurement: Journal of the International Measurement Confederation, 2018, 126, 22-36. | 2.5 | 25 |
| 29 | Identifying Potato Varieties Using Machine Vision and Artificial Neural Networks. International Journal of Food Properties, 2016, 19, 618-635. | 1.3 | 24 |
| 30 | Assessment of adaptive neuro-fuzzy inference system and response surface methodology approaches in draft force prediction of subsoiling tines. Soil and Tillage Research, 2019, 194, 104338. | 2.6 | 22 |
| 31 | Ultrasonic-Microwave and Infrared Assisted Convective Drying of Carrot: Drying Kinetic, Quality and Energy Consumption. Applied Sciences (Switzerland), 2020, 10, 6309. | 1.3 | 22 |
| 32 | Feasibility of Using VIS/NIR Spectroscopy and Multivariate Analysis for Pesticide Residue Detection in Tomatoes. Processes, 2021, 9, 196. | 1.3 | 22 |
| 33 | Effect of Pretreatments on Convective and Infrared Drying Kinetics, Energy Consumption and Quality of Terebinth. Applied Sciences (Switzerland), 2021, 11, 7672. | 1.3 | 22 |
| 34 | Evaluation of Different Models for Non-Destructive Detection of Tomato Pesticide Residues Based on Near-Infrared Spectroscopy. Sensors, 2021, 21, 3032. | 2.1 | 21 |
| 35 | Optimisation of microwave-rotary drying process and quality parameters of terebinth. Biosystems Engineering, 2021, 208, 113-130. | 1.9 | 21 |
| 36 | A novel method based on machine vision system and deep learning to detect fraud in turmeric powder. Computers in Biology and Medicine, 2021, 136, 104728. | 3.9 | 21 |

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|---|---|---|---|
| 37 | Non-Destructive Estimation of Physicochemical Properties and Detection of Ripeness Level of Apples Using Machine Vision. International Journal of Fruit Science, 2022, 22, 628-645. | 1.2 | 21 |
| 38 | Semantic segmentation: A modern approach for identifying soil clods in precision farming. Biosystems Engineering, 2020, 196, 172-182. | 1.9 | 20 |
| 39 | Applying the Response Surface Methodology (RSM) Approach to Predict the Tractive Performance of an Agricultural Tractor during Semi-Deep Tillage. Agriculture (Switzerland), 2021, 11, 1043. | 1.4 | 18 |
| 40 | Hyperspectral imaging coupled with multivariate analysis and artificial intelligence to the classification of maize kernels. International Agrophysics, 2022, 36, 83-91. | 0.7 | 17 |
| 41 | The use of soft computing to classification of some weeds based on video processing. Applied Soft Computing Journal, 2017, 56, 107-123. | 4.1 | 16 |
| 42 | Segmentation of Apples in Aerial Images under Sixteen Different Lighting Conditions Using Color and Texture for Optimal Irrigation. Water (Switzerland), 2018, 10, 1634. | 1.2 | 16 |
| 43 | Modelling soil compaction of agricultural soils using fuzzy logic approach and adaptive neuro-fuzzy inference system (ANFIS) approaches. Modeling Earth Systems and Environment, 2019, 5, 13-20. | 1.9 | 16 |
| 44 | Exergy and Energy Analyses of Microwave Dryer for Cantaloupe Slice and Prediction of Thermodynamic Parameters Using ANN and ANFIS Algorithms. Energies, 2021, 14, 4838. | 1.6 | 16 |
| 45 | The Effect of New Wings on Subsoiler Performance. Applied Engineering in Agriculture, 2016, 32, 353-362. | 0.3 | 15 |
| 46 | Modeling of thermodynamic properties of carrot product using ALO, GWO, and WOA algorithms under multi-stage semi-industrial continuous belt dryer. Engineering With Computers, 2019, 35, 1045-1058. | 3.5 | 15 |
| 47 | Prediction of Draft Force of a Chisel Cultivator Using Artificial Neural Networks and Its Comparison with Regression Model. Agronomy, 2020, 10, 451. | 1.3 | 14 |
| 48 | New wings on the interaction between conventional subsoiler and paraplow tines with the soil: effects on the draft and the properties of soil. Archives of Agronomy and Soil Science, 2019, 65, 88-100. | 1.3 | 13 |
| 49 | Evaluation of the Changes in Thermal, Qualitative, and Antioxidant Properties of Terebinth (Pistacia) Tj ETQq1 1 0.784314 rgBT /Overl | 1.3 | 13 |
| 50 | Investigation of the Effect of Soil Moisture Content, Contact Surface Material and Soil Texture on Soil Friction and Soil Adhesion Coefficients. Acta Technologica Agriculturae, 2018, 21, 44-50. | 0.2 | 13 |
| 51 | Improved digital image-based assessment of soil aggregate size by applying convolutional neural networks. Computers and Electronics in Agriculture, 2021, 191, 106499. | 3.7 | 13 |
| 52 | Extended octagonal ring transducers for measurement of tractor-implement forces. Instruments and Experimental Techniques, 2011, 54, 136-140. | 0.1 | 12 |
| 53 | The effect of tine, wing, operating depth and speed on the draft requirement of subsoil tillage tines. Research in Agricultural Engineering, 2017, 63, 160-167. | 0.5 | 12 |
| 54 | The Quality of Infrared Rotary Dried Terebinth (Pistacia atlantica L.)-Optimization and Prediction Approach Using Response Surface Methodology. Molecules, 2021, 26, 1999. | 1.7 | 12 |

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|---|---|---|---|
| 55 | Design, Construction and Calibration of a Triaxial Dynamometer for Measuring Forces and Moments Applied on Tillage Implements in Field Conditions. Mapan - Journal of Metrology Society of India, 2013, 28, 119-127. | 1.0 | 11 |
| 56 | Using different classification models in wheat grading utilizing visual features. International Agrophysics, 2018, 32, 225-235. | 0.7 | 11 |
| 57 | The Use of the Combination of Texture, Color and Intensity Transformation Features for Segmentation in the Outdoors with Emphasis on Video Processing. Agriculture (Switzerland), 2019, 9, 104. | 1.4 | 10 |
| 58 | Effect of Different Working and Tool Parameters on Performance of Several Types of Cultivators. Agriculture (Switzerland), 2020, 10, 145. | 1.4 | 10 |
| 59 | An Integrated System of Artificial Intelligence and Signal Processing Techniques for the Sorting and Grading of Nuts. Applied Sciences (Switzerland), 2020, 10, 3315. | 1.3 | 10 |
| 60 | Investigating the Effect of the Tractor Drive System Type on Soil Behavior under Tractor Tires. Agronomy, 2021, 11, 696. | 1.3 | 10 |
| 61 | Feasibility of Using Computer Vision and Artificial Intelligence Techniques in Detection of Some Apple Pests and Diseases. Applied Sciences (Switzerland), 2022, 12, 906. | 1.3 | 10 |
| 62 | Nondestructive Estimation of the Chlorophyll b of Apple Fruit by Color and Spectral Features Using Different Methods of Hybrid Artificial Neural Network. Agronomy, 2019, 9, 735. | 1.3 | 9 |
| 63 | Estimation of Soil Surface Roughness Using Stereo Vision Approach. Sensors, 2021, 21, 4386. | 2.1 | 9 |
| 64 | Prediction and optimizing the multiple responses of the overall energy efficiency (OEE) of a tractor-implement system using response surface methodology. Journal of Terramechanics, 2022, 103, 11-17. | 1.4 | 9 |
| 65 | Non-Destructive Detection of Fruit Quality Parameters Using Hyperspectral Imaging, Multiple Regression Analysis and Artificial Intelligence. Horticulturae, 2022, 8, 598. | 1.2 | 9 |
| 66 | Evaluation of the Clemson instrumented subsoiler shank in coastal plain soils. Computers and Electronics in Agriculture, 2014, 109, 46-51. | 3.7 | 8 |
| 67 | Estimation of the Constituent Properties of Red Delicious Apples Using a Hybrid of Artificial Neural Networks and Artificial Bee Colony Algorithm. Agronomy, 2020, 10, 267. | 1.3 | 8 |
| 68 | Identification of impurity in wheat mass based on video processing using artificial neural network and PSO algorithm. Journal of Food Processing and Preservation, 2021, 45, . | 0.9 | 8 |
| 69 | Comparison of two artificial intelligence methods ( <scp>ANNs</scp> and <scp>ANFIS</scp> ) for estimating the energy and exergy of drying cantaloupe in a hybrid infraredâ€convective dryer. Journal of Food Processing and Preservation, 2022, 46, . | 0.9 | 8 |
| 70 | Measuring and Comparing Forces Acting on Moldboard Plow and Para-Plow with Wing to Replace Moldboard Plow with Para-Plow for Tillage and Modeling It Using Adaptive Neuro-Fuzzy Interface System (ANFIS). Agriculture (Switzerland), 2020, 10, 633. | 1.4 | 7 |
| 71 | Investigating the effect of the tractor driving system type on soil compaction using different methods of ANN, ANFIS and step wise regression. Soil and Tillage Research, 2022, 222, 105444. | 2.6 | 7 |
| 72 | Evaluation of the direct use of geothermal energy on heat factors required for cold-water fish pisciculture. Aquaculture, 2019, 512, 734291. | 1.7 | 6 |

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|---|---|---|---|
| 73 | Automatic grading of emperor apples based on image processing and ANFIS. Tarim Bilimleri Dergisi, 2015, 21, 326-336. | 0.4 | 6 |
| 74 | Design, construction and field evaluation of a multiple blade soil mechanical resistance sensor. Soil and Tillage Research, 2016, 157, 93-100. | 2.6 | 5 |
| 75 | Developing a Machine Vision System to Detect Weeds from Potato Plant. Tarim Bilimleri Dergisi, 0, , 105-118. | 0.4 | 5 |
| 76 | Effects of Tillage Methods on Soil Fragmentation in Loamy-Clay Soils. American Journal of Agricultural and Biological Science, 2009, 4, 131-136. | 0.9 | 5 |
| 77 | A Novel Technique for Classifying Bird Damage to Rapeseed Plants Based on a Deep Learning Algorithm. Agronomy, 2021, 11, 2364. | 1.3 | 5 |
| 78 | Quality Assessment of Components of Wheat Seed Using Different Classifications Models. Applied Sciences (Switzerland), 2022, 12, 4133. | 1.3 | 5 |
| 79 | Evaluation of dynamic load equations through continuous measurement of some tractor tractive performance parameters. International Journal of Heavy Vehicle Systems, 2013, 20, 222. | 0.1 | 4 |
| 80 | Design and Construction of a High Speed Inter-Row Cultivator. Applied Mechanics and Materials, 0, 110-116, 4914-4918. | 0.2 | 3 |
| 81 | A field comparison of two prototype sensors for horizontally on-the-go soil mechanical resistance measurement. Measurement: Journal of the International Measurement Confederation, 2012, 45, 1906-1912. | 2.5 | 3 |
| 82 | Non-intrusive image processing Thompson orange grading methods. , 2017, , . | | 3 |
| 83 | Identifying irregular potatoes by developing an intelligent algorithm based on image processing. Tarim Bilimleri Dergisi, 2016, 22, 32-41. | 0.4 | 3 |
| 84 | Application of Computational Intelligence Methods for Predicting Soil Strength. Acta Technologica Agriculturae, 2019, 22, 80-85. | 0.2 | 3 |
| 85 | Yumurta KabuÄŸundaki Ã‡atlaklarÄ±n Bilgisayar GÃ¶rÃ¼ntÃ¼sÃ¼ ve Hough DÃ¶nÃ¼ÅŸÃ¼mÃ¼ KullanÄ±larak TanÄ±mlanmasÄ±. Yuzuncu Yil University Journal of Agricultural Sciences, 0, , 375-383. | 0.1 | 3 |
| 86 | Theoretical and practical analysis of waste heat recovery system in off-season rainbow trout production. Aquacultural Engineering, 2019, 85, 65-73. | 1.4 | 2 |
| 87 | Discriminating Healthy Wheat Grains from Grains Infected with Fusarium graminearum Using Texture Characteristics of Image-Processing Technique, Discriminant Analysis, and Support Vector Machine Methods. Journal of Intelligent Systems, 2019, 29, 1576-1586. | 1.2 | 2 |
| 88 | The effect of combined resistance muffler on noise pollution and the allowable driver exposure in Massey-Ferguson tractors (MF 285 and MF 299). Journal of the Saudi Society of Agricultural Sciences, 2020, 19, 409-414. | 1.0 | 1 |
| 89 | Development and Laboratory Evaluation of an Online Controlling Algorithm for Precision Tillage. Sensors, 2021, 21, 5603. | 2.1 | 1 |
| 90 | Development a Device for Measuring Soil Mechanical Properties. Applied Mechanics and Materials, 0, 110-116, 4445-4450. | 0.2 | 0 |

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|---|---|---|---|
| 91 | A new method based on computer vision for non-intrusive orange peel sorting. , 2017, , . | | 0 |
| 92 | Mechanical test suitable for detection of bug-damage wheat grains abstract. Research in Agricultural Engineering, 2018, 64, 77-84. | 0.5 | 0 |
| 93 | A Video Image Segmentation System for the Fruit-trees in Multi-stage Outdoors Orchard under Natural Conditions. Tarim Bilimleri Dergisi, 0, , 427-439. | 0.4 | 0 |
| 94 | Non-destructive Estimation of Chlorophyll a Content in Red Delicious Apple Cultivar Based on Spectral and Color Data. Tarim Bilimleri Dergisi, 0, , 339-348. | 0.4 | 0 |