

Full Name	Davood Kalantari
Scientific Position	دانشیار
E-Mail	d.kalantari@sanru.ac.ir
Department	Department of Farm Machinery
Work phone	---
Fax	33687566-011
Web Site	---



#### Compilation Books

- 1) Identification & design of hydraulic systems, compilation, Naghous Publications, 2015/05/07
- 2) Flow and energy regulation valves in water systems, compilation, Sari university of agricultural sciences & natural resources Press, 2023/01/21

#### Papers in International Journals

- 1) Kalantari Davood, 2016/04/01, Evaluating grain flow from different discharge gates of a grain seeder, Engineering in Agriculture, Environment and Food, 9, 141-146
- 2) Hasantabar Saeed, Mousavi Seyedi Seyed Reza, Kalantari Davood, 2018/04/29, Design, construction and evaluation of a seed pod husker and testing with soybean and mung bean, Agricultural Engineering International: CIGR Journal, 21, 90-99
- 3) Pourdarbani Razieh, Sabzi Sajad, Hernandez Mario, Hernandez Jose Luis, Garcia Mateos Gines, Kalantari Davood, Molina-Martinez Jose Miguel, 2019/10/30, Comparison of Different Classifiers and the Majority Voting Rule for the Detection of Plum Fruits in Garden Conditions, Remote Sensing, 11, 2500-2546
- 4) Sabzi Sajad, Pourdarbani Razieh, Kalantari Davood, Panagopoulos Thomas, 2020/01/04, Designing a Fruit Identification Algorithm in Orchard Conditions to Develop Robots Using Video Processing and Majority Voting Based on Hybrid Artificial Neural Network, Applied Sciences-Basel, 10, 380-383
- 5) Pourdarbani Razieh, Sabzi Sajad, Kalantari Davood, Hernandez Jose Luis, Arribas Juan Ignacio, 2020/01/21, A Computer Vision System Based on Majority-Voting Ensemble Neural Network for the Automatic Classification of Three Chickpea Varieties, Foods, 9, 100-113
- 6) Pourdarbani Razieh, Sabzi Sajad, Kalantari Davood, Karimzadeh Rohollah, Arribas Juan Ignacio, 2020/07/01, Automatic non-destructive video estimation of maturation levels in Fuji apple (Malus Malus pumila) fruit in orchard based on colour (Vis) and spectral (NIR) data, BIOSYSTEMS ENGINEERING, 195, 136-151
- 7) Pourdarbani Razieh, Sabzi Sajad, Kalantari Davood, Molina-Martinez Jose Miguel, Paliwal Jitendra, Benmouna Brahim, Mateos Garca, 2020/09/01, Estimation of different ripening stages of Fuji apples using image processing and spectroscopy based on the majority voting method, COMPUTERS AND ELECTRONICS IN AGRICULTURE, 176, 105-105643
- 8) Pourdarbani Razieh, Sabzi Sajad, Kalantari Davood, Arribas Juan Ignacio, 2020/11/01, Non-destructive visible and short-wave near-infrared spectroscopic data estimation of various physicochemical properties of Fuji apple (Malus pumila) fruits at different maturation stages, CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS, 206, 104-104147
- 9) Sedighi shahryar, Kalantari Davood, Shoyokhi Saeid, Redl Jozef, 2021/06/25, Determination of the appropriate illumination wavelength for accurate and early detection of poplar tree leaf spot disease by using image processing technique, Agricultural Engineering International: CIGR Journal, 23, 170-180
- 10) Tafakhori Misagh, Kalantari Davood, Biparva Pourya, Peyghambarzadeh Mohsen, 2021/07/20, Assessment of Fe3O4–water nanofluid for enhancing laminar convective heat transfer in a car radiator, journal of thermal analysis and calorimetry, 10, 1-13

11) Kalantari Davood, Jafari Hassan, Kaveh Mohammad, Szymanek Mariusz, Asghari Ali, Marczuk Andrzej, Khalife Esmail, 2022/02/10, Development of a machine vision system for the determination of some of the physical properties of very irregular small biomaterials, *International Agrophysics*, 36, 27-35

12) Zadhosein Safoura, Abbaspour-Gilandeh Yousef, Kaveh Mohammad, Kalantari Davood, Khalife Esmail, 2022/10/01, Comparison of two artificial intelligence methods (ANNs and ANFIS) for estimating the energy and exergy of drying cantaloupe in a hybrid infrared-convective dryer, *JOURNAL OF FOOD PROCESSING AND PRESERVATION*, 46, 1-17

13) Kalantari Davood, Tafakhori Misagh, Ghanbari Mojtaba, Biparva Pourya, Peyghambarzadeh Mohsen, 2023/03/01, Intensification of thermal efficiency of a cross-flow heat exchanger under turbulent flow conditions using CuFe<sub>2</sub>O<sub>4</sub>/water nanofluid, *INTERNATIONAL JOURNAL OF THERMAL SCIENCES*, 185, 108-108107

14) Kiani Sajad, Rahimzadeh Hassan, Kalantari Davood, Moradi Sadr Jalil, 2023/05/01, Aroma modeling and quality evaluation of spearmint (*Mentha spicata* subsp. *spicata*) using electronic nose technology coupled with artificial intelligence algorithms, *Journal of Applied Research on Medicinal and Aromatic Plants*, 35, 100473

15) HOSEINGHOLIZADEH Mahdiah, Kalantari Davood, 2024/04/01, Development of Machine Vision-Based Algorithm for Counting and Discriminating Filled and Unfilled Paddy Rice in Overlapping Mode, *Rice Science*, 31, 503-506

16) Kaveh Mohammad, Abbaspour-Gilandeh Yousef, Mesery Hany, Kalantari Davood, Nowacka Malgorzata, Taghinejad Ebrahim, 2024/07/01, Energy and exergy analysis of drying terebinth in a far infrared rotary dryer using response surface methodology, *EXPERIMENTAL HEAT TRANSFER*, 1, 1-26

17) Sedighi shahryar, Kalantari Davood, Kaveh Mohammad, Redl Jozef, Szymanek Mariusz, Dziwulska-Hunek Agata, 2024/09/02, The effect of muffler design on reducing the noise pollution of a small two-stroke engine, *Results in Engineering*, 23, 1-18

18) Kalantari Davood, Askari Mohammad, Mousavi Seyedi Seyed Reza, Asadi Nezamoddin, 2025/03/03, Investigating the Compressibility of Sandy-Clay Soil in the Laboratory Soil Bin Caused by Agricultural Tire Traffic and Analyzed by the Adaptive Neuro-Fuzzy Inference System, *Applied and Environmental Soil Science*, 1, 1-11

#### Papers in National Journals

1) REDL Jozef, BOYKO Grigory, Kalantari Davood, 2024/03/01, PREDICTION OF MACHINE'S CENTRE OF GRAVITY DISLOCATION WITH MONTE CARLO SIMULATION, *acta technologica agriculturae*, 1, 133-141

2) Laee kazem, Mousavi Seyedi Seyed Reza, Kalantari Davood, 2018/08/22, Design, construction and evaluation of an online control system for drop irrigation in greenhouse, *Iranian Journal of Irrigation and Drainage*, 12, 578-569

#### Presented Papers in International Conferences

1) laiee kazem, Mousavi Seyedi Seyed Reza, Kalantari Davood, The 5th international conference electrical engineering and computer, poster presentation, complete article, Accuracy Analysis of Intelligent Irrigation System is designed between the Moisture Sensor and the YL-69 Sensor, 2018/02/08, 2018/02/08

#### Presented Papers in National Conferences

1) Tagavin Seyedi smaeal, Mousavi Seyedi Seyed Reza, Kalantari Davood, Hadipour Rokni Ramazan, The 7th National Congress on Agr. Machinery Eng. & Mechanization, poster presentation, complete article, Survey of the effect of exhaust contaminant amount variations of Ferguson copper tractor 285 in different times of soil operation, 2012/09/03, 2012/09/04

2) Moeenifar Abdolmajid, Mousavi Seyedi Seyed Reza, Kalantari Davood, The 8th National Congress on Agr. Machinery Eng. (Biosystems)& Mechanization, poster presentation, complete article, Investigation of the Tractive efficiency tractor (Arvid354) in tillage operation by chisel plow in different levels of speed, depth and angle of the blade, 2014/01/29, 2014/01/31

3) Faramarzi Hamidreza, Mousavi Seyedi Seyed Reza, Hashemi Seyed Jafar, Kalantari Davood, The 8th National Congress on Agr. Machinery Eng. (Biosystems)& Mechanization, announcer, complete article, Evaluation the effect of absorbent plate kind and the type of fluid in function a solar dryer, 2014/01/29, 2014/01/31

- 4) Abdolahi Mehdi, Mousavi Seyedi Seyed Reza, Kalantari Davood, The 8th National Congress on Agr. Machinery Eng. (Biosystems)& Mechanization, poster presentation, complete article, Effects of internal irreversibility, heat losses and friction on the performance of diesel air and fuel cycle, 2014/01/29, 2014/01/31
- 5) Shafiee Alamouti Ghasem, Kalantari Davood, Mousavi Seyedi Seyed Reza, The 4th International Conference on Environmental Challenges and Dendrochronology, poster presentation, complete article, Design and construction of coastal garbage Gathering machine, 2014/05/14, 2014/05/15
- 6) Dehghan Saeed, Kalantari Davood, Mousavi Seyedi Seyed Reza, The 10th National Congress on Biosystems Eng. (Agr. Machinery), poster presentation, complete article, The design of shear pin appropriate to a thin tillage blade with modifying the distribution of soil pressure on blade, 2016/08/30, 2016/08/31
- 7) Pegah Naser, Kalantari Davood, Mousavi Seyedi Seyed Reza, Rajabi VandeChali Majid, 11th National Congress on Biosystem Engineering Mechanization, poster presentation, complete article, The effect of working factors of a garden rototiller on the physical structure of the soil, 2018/09/03, 2018/09/05
- 8) Asadi Nezamoddin, Kalantari Davood, Askari Mohammad, Mousavi Seyedi Seyed Reza, The fourteenth national conference of medical herbs and stable agriculture, poster presentation, complete article, Investigating the compact ability of sandy clay soil in laboratory soil bin caused by agricultural tire passages as experimental and analysis with adaptive neuro-fuzzy inference system (ANFIS), 2023/01/31, 2023/01/31