



**NAME & SURNAME:** Seyed Majid Sajadiye

 **ADDRESS, SUBURB, STATE, POSTAL CODE:** Department of Biosystems Engineering, Agriculture Faculty, Shahid Chamran University of Ahvaz, Ahvaz, Iran, Postcode: 61357-4331

 **PHONE/MOBILE NUMBER:** +98-61-33330010

 **E-MAIL ADDRESS:** m.sajadiye@scu.ac.ir; s.m.sajjadiyeh@gmail.com

## PROFESSIONAL PROFILE:

Assistant Professor of Biosystem Eng. in Shahid Chamran University (SCU) of Ahvaz.

## EDUCATION BACKGROUND:

**Ph.D.:** Mechanics of Agricultural Machinery (2012), University of Tehran, Tehran, Iran.

**Thesis title:**

“Computational Fluid Dynamics based performance optimization of apple maintaining and refrigeration in a model cooling room”

**M.Sc.:** Mechanics of Agricultural Machinery (2006), University of Tehran, Tehran, Iran

**Dissertation title:**

“Remote control and monitoring of agricultural cold stores via the Internet”

**B.S.:** Agricultural Machinery (2003), Urmia University, Urmia, Iran

## TEACHING AND TRAINING EXPERINCE:

- Fluid Mechanics, Industrial Drawing, Unit Operation for BSc students
- Applied Fluid Mechanics in Food Industry, Computer Aid Design for MSc students

## HONOURS AND AWARDS:

- Ranked 5th in the national entrance examination for the master's degree (22/09/2004)
- First place in the entrance exam for the doctorate in Mechanics of Agricultural Machinery, University of Tehran (23/09/2006)
- Leading the team of Shahid Chamran University of Ahvaz and achieving the selected design in the competitions of designing and manufacturing electric motorcycles, Sharif University of Technology - Shahid Rezaei Research Institute (2012-2014)
- Establishment of food industry machinery engineering at Shahid Chamran University of Ahvaz (22/09/2016)

## INTERESTS AND RESEARCH FIELDS:

- CFD based design and performance optimization in agricultural systems and food industry
- Heat and Mass Transfer in Food Processing
- Terramechanics
- Computer aid design and optimization in Agricultural Machinery

## RESEARCH ACTIVITIES:

### PUBLICATIONS:

- The effect of weather on temperature variation inside a solar dryer in Ahvaz-Iran using CFD method  
SM Sajadiye, A Saberian  
Journal of Food Process Engineering (2021)
- Nitrogen estimation in sugarcane fields from aerial digital images using artificial neural network. (2021).  
SA Hosseini, H Masoudi, SM Sajadiye, SA Mehdizadeh  
Environmental Engineering & Management Journal (EEMJ) 20 (5)
- Assessing the variable performance of fan-and-pad cooling in a subtropical desert greenhouse. (2020).  
A Saberian, SM Sajadiye  
Applied Thermal Engineering 179, 115672
- Finite element simulation of paddlewheel-wet soil interaction: development of model and experimental validation. (2020).  
MDM Sara, SM Sajadiye  
Journal of Researches in Mechanics of Agricultural Machinery 9 (2)
- Investigation of the effect of temperature and manure on biogas production from sugarcane bagasse. (2019).  
MJ Malekzadeh, M Kiani, SM Sajadiye  
Journal of Agricultural Engineering Soil Science and Agricultural Mechanization,(Scientific Journal of Agriculture) 42 (4), 107-117

- Determination of nitrogen and chlorophyll content of sugarcane plant from color indicators of digital aerial images by regression modeling. (2019).  
SA Hosseini, H Masoudi, SM Sajadiye, SA Mehdizadeh  
Journal of Agricultural Engineering Soil Science and Agricultural Mechanization,(Scientific Journal of Agriculture) 42 (2), 83-98
- The effect of dynamic solar heat load on the greenhouse microclimate using CFD simulation. (2019).  
A Saberian, SM Sajadiye  
Renewable Energy 138, 722-737
- Simulation of in-line versus staggered arrays of vented pallet boxes for assessing cooling performance of orange in cool storage. (2017).  
SM Sajadiye, M Zolfaghari  
Applied Thermal Engineering 115, 337-349
- The effect of temperature and drying method on drying time and color quality of mint. (2017).  
H Bahmanpour, SM Sajadiye, MJ Sheikhdavoodi, M Zolfaghari  
Journal of Agricultural Machinery 7 (2), 415-426
- The study of some physical properties and energy aspects of potatoes drying process by the infrared-vacuum method. (2016).  
N Hafezi, MJ Sheikhdavoodi, SM Sajadiye, ME Khorasani Ferdavani  
Journal of Agricultural Machinery 6 (2), 463-475
- A Study of Drying Rate of Sliced Potatoes during Radiation-Vacuum Drying Process using Regression and Artificial Neural Network Models. (2016).  
N Hafezi, MJ Sheikhe Davoodi, SM Sajjadih  
Iranian Journal of Biosystems Engineering 47 (2), 279-289
- Neural Modeling for Predicting the Moisture Ratio of Potato Slice in Radiation-Vacuum Dryer. (2016).  
N Hafezi, MJ Sheikhdavoodi, SM Sajadiye, ME Khorasani Ferdavani  
Journal of Agricultural Engineering Soil Science and Agricultural Mechanization,(Scientific Journal of Agriculture) 39 (1), 39-53
- Assessment of some physical properties of dried potatoes. (2016).  
N Hafezi, MJ Sheikhdavoodi, SM Sajadiye  
Agricultural Engineering International: CIGR Journal 18 (2), 267-275
- Evaluation of quality characteristics of potato slices during drying by infrared radiation heating method under vacuum. (2016).  
N Hafezi, MJ Sheikhdavoodi, SM Sajadiye  
International Journal of Agricultural and Food Research 4 (3)
- The effect of drying kinetic on shrinkage and colour of potato slices in the vacuum-infrared drying method. (2015).  
N Hafezi, MJ Sheikhdavoodi, SM Sajadiye  
International Journal of Agricultural and Food Research 4 (1)
- Study on Shrinkage Characteristic of Potato Slices Based on Computer Vision. (2015).  
N Hafezi, MJ Sheikhdavoodi, SM Sajadiye, AH Arkiyan  
Agricultural Engineering International: CIGR Journal 17 (3)
- Study of energy consumption of potato slices during drying process. (2015).  
N Hafezi, MJ Sheikhdavoodi, SM Sajadiye  
Acta Technologica Agriculturae 2 (4), 36-41

- The Effect of drying kinetic on shrinkage of potato slices. (2014).  
N Hafezi, MJ Sheikhdavoodi, SM Sajadiye  
International Journal of Advanced Biological and Biomedical Research 2 (11 ...
- Evaluation of energy consumption of potato slices drying using vacuum-infrared method. (2014).  
N Hafezi, MJ Sheikhdavoodi, SM Sajadiye, MEK Ferdavani  
International Journal of Advanced Biological and Biomedical Research 2 (10 ...
- A multi-scale three-dimensional CFD model of a full loaded cool storage. (2013).  
SM Sajadiye, H Ahmadi, M Zolfaghari, SS Mohtasebi, Y Mostofi, A Raja  
International Journal of Food Engineering 9 (2), 163-178
- Evaluation of a cooling performance of a typical full loaded cool storage using mono-scale CFD simulation. (2012).  
Seyed Majid Sajadiye, Hojat Ahmadi, Seyed Mostafa Hosseinalipour, Seyed Saeid Mohtasebi, Mohammad Layeghi, Younes Mostofi, Amir Raja  
Modern Applied Science 6 (1), 102
- Remote Monitoring and Control of Horticultural Cool Storage Over the Internet. (2011).  
RA M. Omid, S. M. Sajjadiye  
Computer Applications in Engineering Education 19 (1), 136 - 145

## CONFERENCE PRESENTATIONS:

- Interaction of paddle wheel and wet soil - a numerical analysis and validation with the help of physical experiment. (2020).  
MDM Sara, SM Sajadiye  
12th National Congress of Mechanical Engineering, Biosystems and Mechanization of Iran Shahid Chmaran Univerity of Ahvaz, Ahvaz, Iran
- Nitrogen and chlorophyll content of sugarcane plant based on color characteristics by regression modeling. (2018).  
SA Hosseini, H Masoudi, SM Sajadiye, SA Mehdizadeh  
11th National Congress of Mechanical Engineering, Biosystems and Mechanization of Iran Univerity of Boualisina Hamedan, Hamedan, Iran
- Estimation of nitrogen status in sugarcane fields from digital aerial imagery using artificial neural networks. (2018).  
SA Hosseini, H Masoudi, SM Sajadiye, SA Mehdizadeh  
11th National Congress of Mechanical Engineering, Biosystems and Mechanization of Iran Univerity of Hamedan, Hamedan, Iran
- Nitrogen Measurement of Crops: Methods and Equipment. (2017).  
SA Hosseini, H Masoudi, SM Sajadiye  
First National Conference on Agriculture, Natural Resources and Veterinary Medicine Univerity of Ardakan, Ardakan, Iran
- Unmanned aerial imaging systems and their application in agriculture. (2019).  
SA Hosseini, H Masoudi, SM Sajadiye  
4th National Conference on Applied Research in Agricultural Sciences Univerity of Ardakan, Ardakan, Iran
- Analysis of biogas production process from sugarcane bagasse under conditions of manure and temperature change. (2016).  
MJ Malekzadeh, M Kiani, SM Sajadiye  
The First International Conference on New Horizons in Agricultural Sciences, Natural

# Curriculum Vitae



## Resources and Environment

New Horizon Science and Technology Association, Tehran, Iran

- The effect of different drying methods on the amount of essential oil of peppermint (*Mentha piperita* L.). (2015).

H Bahmanpour, SM Sajadiye, MJ Sheikhdavoodi, M Zolfaghari

The Second National Conference on Medicinal Plants, Traditional Medicine and Organic Agriculture

Shahid Mofateh University of Hamedan, Hamedan, Iran

- Comparison of drying process of mint (*Mentha Piperita* L) in solar dryer and vacuum dryer with infrared heating. (2015).

H Bahmanpour, SM Sajadiye, MJ Sheikhdavoodi, M Zolfaghari

Third National Conference on Environmental Research and Agricultural Sciences of Iran

Shahid Mofateh University of Hamedan, Hamedan, Iran

- Investigation of color change and shrinkage of dried potato slices using image processing technique. (2015).

N Hafezi, MJ Sheikhdavoodi, SM Sajadiye, AH Arkian

9th National Congress of Agricultural Machinery Engineering (Biosystems) and Mechanization of Iran

Campus of Agriculture and Natural Resources, University of Tehran, Karaj, Iran

- Estimation of Moisture Content of Potato Slices in a Combined Infrared Vacuum Dryer - Artificial Neural Network. (2015).

N Hafezi, MJ Sheikhe Davoodi, SM Sajjadih

The first national conference on new technologies of harvesting and post-harvest agricultural products

Khorasan Razavi Agricultural and Natural Resources Research Center, Mashhad, Iran

- Remote control and monitoring of agricultural cool storage environment via Internet. (2006).

R. Alimardani, RA M. Omid, S. M. Sajjadiye

Proceedings of the international conference on Innovations in Food and Bioprocess Technologies

AIT, Pathumthani, Thailand

## PATENTS:

- Design and construction of a microcontroller-based remote monitoring and control system for cold storage of agricultural products through client-server Internet architecture

S. M. Sajadiye, RA M. Omid, R. Alimardani

No. 38503211 (10/06/2006), General Office of Company Registration and Industrial Property, Tehran, Iran

## LANGUAGES:

**PERSIAN:** Native

**ENGLISH:** Intermediate