Curriculum Vitae (CV)

Rouhollah Farhadi

Assistant Professor, Department of Agricultural Machinery and Mechanization, Agricultural Sciences and Natural Resources University of Khuzestan, Mollasani, Iran
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Education

PhD (Graduated with the first rank)	2012-2017 Biosystems Engineering Department of Biosystems Engineering, Urmia University, Urmia, Iran **Doctoral Thesis**: Water Disinfection in Hydroponic Systems Using a Combined Vacuum Tube Solar Collector.
MSc (Graduated with the first rank)	2004-2007 Mechanical Engineering of Agricultural Machinery Department of Mechanical Engineering of Agricultural Machinery, Shahrekord University, Shahrekord, Iran **Master's Thesis**: Design, Construction, and Evaluation of a Rotary Potato Grader.
BSc (Graduated with the first rank)	2000-2004 Agricultural Machinery Engineering Department of Agricultural Machinery Engineering, Shahid Chamran University, Ahvaz, Iran.

Research Interests

- Renewable Energies
- Computational Fluid Dynamics (CFD)
- Modeling and Simulation
- Heat Transfer and Thermodynamics Analyses
- Soft Computing

Publications

1. Farhadi, Rouhollah. "Elimination of Chemical Controls in Hydroponic Cultures Using Solar Energy." Journal of Cleaner Production, vol. 313, p. 127861.
2. Farhadi, Rouhollah, Morteza Taki, and Saman Abdanan Mehdizadeh. 2020. "An Algorithm and a Flexible Fortran Code for the Computation of Solar Energy Reception on a Curved Surface." Sustainable Energy Technologies and Assessments, vol. 42, , p. 100883.
3. Farhadi, R. and Taki, M. (2020), "The energy gain reduction due to shadow inside a flat-plate

solar collector", Renewable Energy, Vol. 147 No. 1, pp. 730–740.
4. Taki, M., Rohani, A., Yildizhan, H. and Farhadi, R. (2019), "Energy-exergy modeling of solar radiation with most influencing input parameters", *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, Vol. 41 No. 17, pp. 2128–2144.
5. Farhadi, R., Farrokhi Teimourlou, R. and Abbasalizadeh, M. (2016), "CFD simulation of different water tank shapes on temperature distribution uniformity", *INMATEH - Agricultural Engineering*, Vol. 50 No. 3, pp. 47–54.
6. Dehkordi, N. and Farhadi, R. (2015), "A new approach to use rice husk and different types of opener in punch planting of common bean", *Journal of Central European Agriculture*, Vol. 16 No. 2, pp. 162–171.
7. Sakenian Dehkordi, N. and Farhadi, R. (2015), "Mulch treatment with mulch planter and its effects on maize production", *Agriculturae Conspectus Scientificus*, Vol. 80 No. 4, pp. 247–252.
8. Azizi, P., Farhadi, R. and Sakenian Dehkordi, N. (2014), "Design, construction and evaluation of potato digger with rotary blade", *Cercetări Agronomice În Moldova*, Vol. 47 No. 3, pp. 5–13.
9. Farhadi, R. and Ghanbarian, D. (2014), "Potato mass modeling with dimensional attributes using regression and artificial neural networks", *Trakia Journal of Sciences*, Vol. 12 No. 1, pp. 47–54.
10. Farhadi, R., Sakenian, N. and Azizi, P. (2012), "Design and construction of rotary potato grader. (part I)", *Bulgarian Journal of Agricultural Science*, Vol. 18 No. 2, pp. 304–314.
11. Farhadi, R., Sakenian, N. and Azizi, P. (2012), "Rotary potato grader optimization. (Part II)", *Bulgarian Journal of Agricultural Science*, Vol. 18 No. 6, pp. 987–990.

Teaching

- Differential Equations
- Engineering Drawing I
- Engineering Drawing II
- Engineering Mathematics
- Fluid Mechanics
- Intermediate Engineering Mathematics
- Machine Dynamics
- Numerical Computation
- Thermodynamics

Software Skills

ADAMS	EES	Fortran	MSC Visual Nastran
ANSYS	EndNote	MATLAB	Photoshop
AutoCAD	Excel	Mendeley	PowerPoint
CFX	Fluent	MINITAB	SolidWorks

SPSS

TRNSYS

Visual Basic

Word