Curriculum Vitae:

Summary

Name: *Mahmoud Ghasemi Nejad Raeini*

نام: **محمود قاسمی نژاد رائینی**

Work Address:

Department of Agricultural Machinery and Mechanization Engineering, Faculty of Agricultural Engineering and Rural Development, Agricultural Sciences and Natural Resources University of Khuzestan, Mollasani, Iran.

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آدرس و محل کار

گروه ماشین های کشاورزی و مکانیزاسیون، دانشگاه علوم کشاورزی و منابع طبیعی خوزستان
صندوق پستی ۶۳۴۱۷۷۳۶۳۷
ملاثانی اهواز، ایران
تلفن و فاکس ۰۶۱۲۳۲۲-۳۹۲۲

Current Position: *Faculty of Agricultural Engineering and Rural Development, Agricultural Sciences and Natural Resources University of Khuzestan, Mollasani, Iran. .*

Education:

1995-1998 *Two yeasr program in agricultural engineering*
Shahid Bahonar University (Kerman University).

1998-2000 *B.S. of Agriculture Machinery, School of Agriculture*
Shahid Chamran University

2001-2003 *M.S. of Agriculture Mechanization, School of Agriculture*
Shahid Chamran University

Publications
انتشارات
Conferences
کنفرانس ها

کتاب:

تراکتورها و روش های انتقال قدرت در ماشین های کشاورزی

. Tractors and power transmission methods in agricultural machines

مقالات:

Cradle to grave environmental-economic analysis of tea life cycle in Iran
F Soheili-Fard, H Kouchaki-Penchah, MGN Raini, G Chen
Journal of Cleaner Production 196, 953-960
49 *2018*

Chemical footprint of pesticides used in citrus orchards based on canopy deposition and off-target losses
F Soheilifard, A Marzban, MG Raini, M Taki, R van Zelm
Science of the Total Environment 732, 139118
30 *2020*

Measuring the energy and environmental indices for apple (production and storage) by life cycle
30 *2020*

Publications
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کنفرانس ها

assessment (case study: Semirom county, Isfahan, Iran) *S Naderi, MGN Raini, M Taki* *Environmental and Sustainability Indicators 6, 100034*		
Energy and environmental indices through life cycle assessment of raisin production: A case study (Kohgiluyeh and Boyer-Ahmad Province, Iran) *B Elhami, MGN Raini, F Soheili-Fard* *Renewable Energy 141, 507-515*	*27*	*2019*
Comparison of different tomato puree production phases from an environmental point of view *S Shahvarooghi Farahani, F Soheilifard, M Ghasemi Nejad Raini, D Kokei* *The International Journal of Life Cycle Assessment 24, 1817-1827*	*18*	*2019*
Analysis and comparison of energy-economic-environmental cycle in two cultivation methods (seeding and transplanting) for onion production (case study: central parts of Iran) *B Elhami, MGN Raini, M Taki, A Marzban, M Heidarisoltanabadi* *Renewable Energy 178, 875-890*	*17*	*2021*
Effect of residue management, different conservation tillage and seeding on soil physical properties and wheat grain yield *A Safari, MA Asoodar, M Ghasemi Nejad, A Abdali* *Journal of Agricultural science and sustainable production 23 (2), 49-59*	*14*	*2013*
The effect of dynamic loading on abrasion of mulberry fruit using digital image analysis *F Afsharnia, SA Mehdizadeh, M Ghaseminejad, M Heidari* *Information Processing in Agriculture 4 (4), 291-299*	*13*	*2017*
Simultaneous comparison of the effects of shaft load and shaft positions on tractor OEE in two soil conditions (cultivated and uncultivated) *A Samiei Far, N Kazemi, M Rahnama, M Ghasemi* *Int. J. Farm Allied Sci 43 (2015), 215-221*	*11*	*2015*
Application of classic and soft computing for modeling yield and environmental final impact in vegetable production (a case study: transplanting onion in Isfahan province, Iran) *B Elhami, M Ghasemi Nejad Raeini, M Taki, A Marzban, ...* *Environmental Science and Pollution Research 29 (23), 35314-35337*	*8*	*2022*
Economic analysis of okra production systems in Khuzestan province	*4*	*2020*

M Javam, M Ghasemi Nejad Raeini, A Marzban *Agricultural Mechanization and Systems Research* *21 (74), 33-46*		
Effect of tillage, fertilization and weed control methods on corn yield in Khuzestan province *G Mahmoud, R Nejad, S Javad, M Davoodi, A Morteza, B Houshang, ...* *Scientific Research and Essays 7 (43), 3727-3736*	*4*	*2012*
Optimization of energy ratio, benefit to cost and greenhouses gasses using metaheuristic techniques (genetic and particular swarm algorithms) and data envelopment analysis ... *B Elhami, MGN Raeini, M Taki, A Marzban, M Heidarisoltanabadi* *Environmental Progress & Sustainable Energy 41 (6), e13889*	*2*	*2022*
بررسی تأثیر شرایط مزرعه و محصول بر عملکرد مزرعه‌ای کمباین در برداشت گندم محمود قاسمی نژاد رائینی, محمد فرامهر, عباس عبدشاهی مهندسی بیوسیستم ایران ۴۹ (۳), ۵۱۳-۵۲۴	*2*	*2018*
A smart IoT-based irrigation system design using AI and prediction model *F Behzadipour, M Ghasemi Nezhad Raeini, S Abdanan Mehdizadeh, ...* *Neural Computing and Applications 35 (35), 24843-24857*	*1*	*2023*
Evaluation of energy consumption and environmental impacts of strawberry production in different greenhouse structures using life cycle assessment (LCA) approach *M Mousavi, M Taki, MG Raeini, F Soheilifard* *Energy 280, 128087*	*1*	*2023*
Short-Term Effects of Soil Management Strategies on the Hydro-Physical Properties of Soil and Wheat Yield in an Arid Region in Southwestern Iran *B Khalilimoghadam, F Moradi-Choghamarani, M Ghaseminejad, ...* *Eurasian Soil Science, 1-13*		*2023*
Predictions of greenhouse soil moisture using artificial neural network and wireless network sensing *F Behzadipour, M Ghaseminezhad, S Abdanan Mehdizadeh, M Taki, ...* *Iranian Journal of Biosystems Engineering 53 (4), 341-356*		*2023*
Evaluation and optimization of energy and environmental indicators using life cycle assessment and data envelopment analysis (Case study: Industrial cattle farms in northern ... *R Fathi, MG Nejad-Raeini, R Hesampour* *Evaluation 13 (4), 383-404*		*2023*

Study of the innovation system and research and development in the agricultural sector of Argentina *R Fathi, M Ghasemi Nejad Raeeni, S Abdanan Mehdizadeh* *Agricultural Mechanization 7 (3), 1-13*	*2022*
Evaluation of the effect of crop rotation on the yield of wheat fields using satellite images منا دغلاوی, محمود قاسمی نژاد رائینی, نعیم لویمی, امین لطفی جلال آبادی مهندسی زراعی ٤٥ (٢)	*2022*
Evaluation of the effect of crop rotation on the yield of wheat fields using satellite images *M Daghlavi, M Ghasemi Nejad Raeini, N Loveimi, A Lotfi Jalal-abadi* *Journal of Agricultural Engineering Soil Science and Agricultural …*	*2022*
Influence of the nozzle type, air-assisted velocity, and wind velocity on the measurements of spray drift potential of boom sprayers *F Solimani, M Rahnama, MA Asoodar, MGN Raini, MA Hormozi* *Agricultural Engineering International: CIGR Journal 24 (2)*	*2022*
Influence of some Operational Parameters on Boom Spray Drift. *F Solimani, M Rahnama, MA Asoodar, MGN Raini, MA Hormozi* *Agricultural Engineering International: CIGR Journal 24 (2)*	*2022*
Effect of minimum tillage, conventional tillage and plasticulture pattern on strawberry yield and water use efficiency in north east of Ahvaz *A Daneshkhah, M Ghasemi Nejad Raeini, MA Asoodar, A Marzban, …* *Journal of Agricultural Engineering Soil Science and Agricultural …*	*2021*
A Survey of Conservation Agriculture in the World with Focus on Argentina as a Successful Case *R Fathi, MA Asoodar, M Ghasemi Nejad* *Land Management Journal 9 (1), 87-101*	*2021*
Analysis of the Importance of Effective Criteria in the Transfer of Technology Process in Agricultural Mechanization *M Ghasemi Nejad Raeini, A Marzban, A Keshvari, N Hasnaki* *Journal of Technology Development Management 9 (1), 165-197*	*2021*
Texture estimation model for mulberry fruit from linear measurements	*2021*

F Afsharnia, MGN Raeini, H Barzegar, P Ghasemi
Journal of Horticulture and Postharvest Research 4 (3), 11-24

Design, Construction and Evaluation of Air Assisted Nozzle on Boom Sprayer — *201 8*
M Rahnoma, MH Asodar, M Ghaseminjad, MA Hormuzi, F Solemani
Agricultural Mechanization 4 (2), 13-26

Effect of tillage methods, different amount of super absorbent and residue on canola seedling emergence and yield under dryland condition — *2018*
M Ghaseminezhad, Y Amidi, MA Asoodar, MR Moradi Telavat, ...
Iranian Journal of Biosystems Engineering 49 (2), 205-213

Study of the operational parameters of crops turbine sprayer (turbo liner) on spray quality and diameter of droplets, using image processing — *2017*
F Behzadi Pour, M Ghasemi-Nejad Raeini, MA Asoodar, A Marzban, ...
Journal of Agricultural Machinery 7 (1), 61-72

طرح:

بررسی هزینه تراکتورهای متداول در استان خوزستان،
مطالعه روشهای کاشت مکانیزه ارقام متفاوت کنجد در خوزستان
طرح دو ساله روشهای متفاوت کاشت رازیانه در خوزستان
بررسی روشهای کاشت و خاک ورزی کنجد در خوزستان

سمینارها:

۱- بررسی و مقایسه مصرف سوخت ویژه و انرژی ویژه دو تراکتور متداول در ایران)، ۱۴ ۲- روش آزمون تراکتور، مجتمع کشاورزی رامین، ۸۲/۱۰/۲۳ ، پژوهشکده مجتمع آموزشی رامین،اهواز.
۳-روش اندازه گیری قدرت(توان)،.
۴-روش آزمون کودپاشها مطابق با استانداردها)
۵- محاسبه نسبت انرژی (بازده)درکشت ذرت درشهرستان کوهدشت،

HONOUR
افتخارات

افتخارات:

۱- کسب رتبه اول در آزمون دکتری داخل در رشته مکانیزاسیون کشاورزی دانشگاه شهید چمران اهوازسال ۸۴.

۲- کسب رتبه اول در مقطع کارشناسی ارشد در بین دانشجویان هم ورودی ، دانشگاه شهید چمران اهوازسال ۸۲

۳- کسب رتبه اول در مقطع کارشناسی در بین دانشجویان هم ورودی ،دانشگاه شهید چمران اهوازسال ۷۸.

1-Obtaining the first rank in the internal doctoral exam in the agricultural mechanization field of Shahid Chamran University of Ahvaz in 1984.
2- Obtaining the first rank in the master's course among the students who entered Shahid Chamran University of Ahvaz in 1982.
3- Obtaining the first rank in the expert course among the students who entered, Shahid Chamran University of Ahvaz in 1978.

سوابق آموزشی (تدریس)
TAUGHT COURSE

دروس تدریسی:

۱- مکانیزاسیون کشاورزی ۱و ۲
۲- سیستم های هیدرولیک در ماشین های کشاورزی
۳- سرویس و نگهداری ماشین آلات .
۴- ماشین های خاک ورزی ۴
۵- ماشین های برداشت ۲
۶- عملیات کشاورزی ۳
۷- پروژه و سمینار کارشناسی
۸- ازمون و ارزیابی ماشین های کشاورزی ارشد
۹- ماشین های کشاورزی
۱۰- کاربرد نرم افزارهای کامپیوتری افزارهای رایانه ای در مکانیزاسیون

1- Agricultural mechanization 1 and 2
2- Hydraulic systems in agricultural machines
3- Service and maintenance of machinery.
4- Landfilling machines 4
5- Harvesting machines 2
6- Agricultural operations 3
7- Expert project and seminar
8- Test and evaluation of Arshad agricultural machines
9- Agricultural machines
10- Application of computer software in mechanization

زمینه های مورد علاقه در تحقیقات
Area of Research Interests

بودجه بندی انرژی
ماشینهای کشاورزی و مکانیزاسیون
روشهای آزمون ماشینها (اندازه گیری قدرت)
فشردگی خاک
خاک ورزی
ماشینهای کاشت

-Energy Budgets
-Agriculture Machinery &Mechanization
-Agriculture Test Procedure
- Soil Compaction
-Tillage
Sowing machinery

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