Curriculum Vitae

NAME & SURNAME: Mostafa Kiani Deh Kiani

DATE OF BIRTH: 1983

ADDRESS, SUBURB, STATE, POSTAL CODE: Department of Biosystems Engineering, Faculty of Agriculture, Shahid Chamran University of Ahvaz, Ahvaz, Iran

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PROFESSIONAL PROFILE:

Assistant Professor of Biosystems Engineering at Shahid Chamran University (scu) of Ahvaz, Iran.

EDUCATION BACKGROUND:

Ph.D: Mechanic of Agricultural Machinery Engineering (2012), University of Tarbiat Modares, Tehran, Iran.

Thesis title:

Modeling and Evaluation of the EF7 Engine Combustion and Exhaust Emission Parameters Using Gasoline- Bioethanol Blends by Genetic Programming

M.Sc.: Mechanic of Agricultural Machinery Engineering (2008), University of Tarbiat Modares, Tehran, Iran.

Dissertation title:

Investigating the Thermal Balance of an Internal Combustion Engine Using Bioethanol- Gasoline Blends.

Curriculum Vitae

B.S.: Agricultural Machinery Engineering (2005), Shahid Chamran University of Ahvaz, Ahvaz, Iran.

TEACHING AND TRAINING EXPERINCE:

Undergraduate Courses:

- Internal combustion engines
- Thermodynamics
- Design of refrigeration and freezing systems

Graduate Courses:

- Solar energy and applications
- Bioenergy production and application technology
- Fundamentals of bioenergy
- Technology of biogas production
- Advanced internal combustion engines
- Design of energy system

HONOURS AND AWARDS:

- First Grade in Ph.D. Entrance Exam of Mechanic of Agricultural Machinery Engineering, University of Tarbiat Modares, Tehran, Iran (2008).
- Second Grade in B.Sc. of Agricultural Machinery Engineering, Shahid Chamran University (SCU) of Ahvaz, Iran, with average of 16.46 from 20 (2005).

INTERESTS AND RESEARCH FIELDS:

- Internal combustion engines
- Bioenergy
- Artificial intelligent

RESEARCH ACTIVITIES:

PUBLICATIONS:

1. Bhaskar, K., Sassykova, LR., Prabhahar, M., **Kiani Deh Kiani, M.**, Gomathi, K,, Sendilvelan S. (2021) Oxides of nitrogen and soot trade-off characteristics of methyl esters in a hybrid mode compression ignition engine. Materials Today: Proceedings, 1;45:5847-52.

2. Zaki Dizaji, H., Haroni, S., Sheikhdavoodi, MJ., Safieddin Ardebili, SM., González Alriols, M., **Kiani Deh Kiani, M**. (2021|) An investigation on the environmental impacts and energy efficiency of biogas and bioethanol production from sugarcane and sugar beet molasses: A case study. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 14:1-5.

3. Mirbagheri, SA., Ardebili, SMS., **Kiani Deh Kiani, M.** (2020). Modeling of the engine performance and exhaust emissions characteristics of a single-cylinder diesel using nano-biochar added into ethanol-biodiesel-diesel blends, Fuel , 278.

4. Vakili, H., **Kiani Deh Kiani, M**. and Changizian, M. (2020). Selection of The Most Suitable Type of Poultry Saloon in terms of Energy Consumption in Khuzestan Province. Journal of Agricultural Machinery, 10(2), pp.361-373. (in Persian).

5. Parsaee, M., **Kiani Deh Kiani, M**., Karimi, K. (2019). A review of biogas production from sugarcane vinasse. Biomass and Bioenergy,122, 117-125.

6. **Kiani Deh Kiani, M**., Rostami, S., Eslami, M., Yusaf, T., Sendilvelan, S. (2018). The effect of inlet temperature and spark timing on thermo-mechanical, chemical and the total exergy of an SI engine using bioethanol-gasoline blends, Energy Conversion and Management, 165, 344-353.

7. Rostami, S., Eslami, M**., Kiani Deh Kiani, M.** (2017). Effect of engine speed on availability of an SI Engine for gasoline-ethanol blends. Journal of Agricultural Engineering, 39 (2), 87-99. (in Persian).

8. Parsaee, M., **Kiani Deh Kiani, M**., Takdastan, F. (2018). Biogas production from sugar cane vinasse using a Static Granual Bed Reactor (SGBR). Journal of Fuel and Combustion, 11(2), 69-78. (in Persian).

9. Eslami, M., Rostami, S., **Kiani Deh Kiani, M.,** Ghobadian, B. (2017). Effect of fuel and compression ratio on Exergetic efficiency of a gasoline engine. Journal of Researches in Mechanics of Agricultural Machinery, 4(2). (in Persian).

10. Rostami, S., **Kiani Deh Kiani, M**., Eslami, M., Ghobadian, B. (2017). "The effect of throttle valve positions on thermodynamic second law efficiency and availability of SI engine using bioethanol-gasoline blends, Renewable Energy, 103, 208-216.

11. Ghanbari, M., Najafi, G., Ghobadian, B., Yusaf, T., Carlucci, A. P., **Kiani Deh Kiani, M.** (2017). "Performance and emission characteristics of a CI engine using nano particles additives in biodiesel-diesel blends and modeling with GP approach,

Fuel, 202, 699-716.

12. Rostami, S., Ghobadian, B., **Kiani Deh Kiani, M**. (2014). Effect of the injection timing on the performance of a diesel engine using diesel-biodiesel blends, International Journal of Automotive and Mechanical Engineering (IJAME), 10, 1945-1958.

13. **Kiani Deh Kiani, M**., Ghobadian, B., Ommi, F., Najafi ,G. (2013). Application of Genetic programming to predict an SI engine brake power and torque using ethanol- gasoline fuel blend,. Internatıonal Journal of Natural and Engineering Sciences, 7 (3), 07-15, 2013.

14. **Kiani Deh Kiani, M.,** Ghobadian, B., Ommi, F., Najafi, G. (2012). Modeling of an SI engine performance parameters and emissions using bio-ethanol-gasoline blends by genetic programming. Journal of Engine Research, 27 (27), 47-57. (in Persian).

15. **Kiani Deh Kiani, M.,** Ghobadian, B., Ommi, F., Najafi, G and Yusaf, T. (2012). Artificial neural networks approach for the prediction of thermal balance of SI engine using ethanol-gasoline blends, Lecture Notes in Computer Science, 7465, 31-43.

16. **Kiani Deh Kiani, M.,** Ghobadian, B., Tavakoli, T., Nikbakht, A. M., Najafi, G. (2010). Application of artificial neural networks for the prediction of performance and exhaust emissions in SI engine using ethanol- gasoline blend, Energy, 35, 65-69.

17. **Kiani Deh Kiani, M.,** Minaei, S., Maghsoudi, H., and Ghasemi Varnamkhasti, M. (2008). Moisture dependent physical properties of red bean grains, International Agrophysics, 22(3), 231-237.

18. **Kiani Deh Kiani, M.,** Maghsoudi, H., and Minaei, S. (2009). Determination of Poisson's ratio and Young's modulus of red bean (Phaseolus Vulgaris L.) grains, Journal of Food Process Engineering, 34(5), 1573-1583.

19. **Kiani Deh Kiani, M.**, Ghobadian, B., Rahimi. H., and Najafi, G. (2008). Investigating the exhaust emissions of a spark ignition engine using gasohol. Journal of Fuel and Combustion, 1, 33-40. (in Persian).

Books Published:

1. Prabhahar, M., **Kiani Deh kiani, M.,** Bhaskar, K., .Sendilvelan, S., Prakash, S., Sassykova, L.R. (2019). Experimental studies on the usage of methyl esters of Pongamia oil fuelled direct injection diesel engine for environmental protection. Advanced Biofuels: Applications, Technologies and Environmental Sustainability, Elsevier.

2. Solimani, M., Khobakht, G.M., **Kiani Deh kiani, M**. (2019). Renewable energy sources (in

Persian).

3. Khobakht, G.M., **Kiani Deh kiani, M.,** Solimani, M. (2020). Bioenrgy Crops (in Persian).

CONFERENCE PRESENTATIONS:

1. Tadi, A., **Kiani Deh Kiani, M.** (2020) A review of lignocellulosic pretreatment methods to improve biogas production. 12th National Congress on Biosystem Engineering and Mechanization, Shahid Chamran University of Ahvaz, Ahvaz, Iran. (in Persian).

2. Mirbagheri, SA., Ardebili, SMS., **Kiani Deh Kiani, M.** (2020). Biochar production, application and characteristics: A review. 12th National Congress on Biosystem Engineering and Mechanization, , Shahid Chamran University of Ahvaz, Ahvaz, Iran. (in Persian).

3. Mirbagheri, SA., Ardebili, SMS., **Kiani Deh Kiani, M.** (2020). The effect of using nano-biochar added to diesel-biodiesel-ethanol blends on the performance and emission of a CI engine. 12th National Congress on Biosystem Engineering and Mechanization, Shahid Chamran University of Ahvaz, Ahvaz, Iran. (in Persian).

4. Sendilvelan, S., Bhaskar, K., **Kiani, Deh Kiani, M.,** Subendran, S., Thrinadh, M., Pandian, P.S. and Sassykova, L.R. (2019). Performance and Combustion Analysis of a PPCCI Engine with Diesel as a Premixed Fuel to Reduce Soot Emission. In Advances in Interdisciplinary Engineering (pp. 703-713). Springer, Singapore.

5. Akbari, S., Rostami, S., **Kiani Deh Kiani, M.** (2017). Modeling of the Compression ignition engine with the blends of biodiesel and diesel fuels. The first conference on advanced materials in aviation and energy industries, Ahvaz, Iran. (in Persian).

6. Jodaki, Sh., Bahrami, H., **Kiani Deh Kiani, M.** (2017). Potential Eucalyptus Plants for Desertification and Biodiesel Production in Khuzestan Province. 2nd National Conference on Agricultural Mechanization and New Technologies, Ahvaz, Iran. (in Persian).

7. Hasnaki, N., **Kiani Deh Kiani, M.** (2016). Potentiometry of Cherysh plant for desertification and environmentally friendly fuel production Biodiesel in Khuzestan Province. 1st International Conference on dust, Ahvaz, Iran. (in Persian).

8. Nori, H., **Kiani Deh Kiani, M.** (2016). Potential of Bioethanol Production from Potato Wastes in Ardabil Province with Renewable Fuel Production and Environmental Conservation Approach. 2nd Conference on Protection of Natural Resources and Environment, Ardebil, Iran. (in Persian).

9. Kashani, R., **Kiani Deh Kiani, M.** (2015). Potentiometric evaluation of Jatrofa plant for producing biodegradable environment friendly fuel and desertification in Khuzestan province. National Conference on Science and Environmental Engineering. Ahvaz, Iran. (in Persian).

10. **Kiani Deh Kiani, M.**, Ghobadian, B., Rahimi, H and Najafi, G. (2008). Investigating the Pollutions in a spark ignition engine using Gasohol. National Conference of Fuel, Energy and

the Environment. Materials and Energy Research Institute. Karaj. Iran. (in Persian).

11. **Kiani, Deh kiani, M.,** Ghobadian, B., Tavakoli Hashjin, T., Rahimi, H and Najafi, G. (2008) The Effect of Ethanol – Gasoline Blends on Thermal Balance of an SI Engine. The Second Combustion Conference of Iran. Islamic Azad University, Mashhad. Iran. (in Persian).

12. Najafi, G., Ghobadian, B., Rahimi, H, Nikbakht, A.M. and **Kiani Deh kiani, M**. (2008). Simulation of Laminar Burning Velocities for Alternative Fuels in SI Engines. The Second Combustion Conference of Iran. Islamic Azad University. Mashhad, Iran. (in Persian).

13. Ghobadian, B., Najafi, G., Rahimi,H, Nikbakht, A.M and **Kiani Deh kiani, M**. (2008). Experimental and Theoretical Investigation of Combustion Process and Its Phases in a Diesel Engine. The Second Combustion Conference of Iran. Islamic Azad University. Mashhad, Iran. (in Persian).

PROFESSIONAL MEMBERSHIPS:

- Member of Iranian Society of Mechanical Engineers.
- Member of Iranian Society of Internal Combustion Engines.

LANGUAGES:

PERSIAN: Native

ENGLISH: Intermediate