

Milad Moradi Heydarloo



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EDUCATION

- **M.SC. IN MECHANICAL ENGINEERING (GPA: 17.22 from Total Of 20)**
Faculty of Mechanical Engineering, University of Guilan (Graduated: September 2016)
Thesis: Multi-Sensor Data Fusion Based Fault Detection and Isolation in a Steam Power Plant Unit (Supervisor: Dr.Ali Chaibakhsh)
- **B.SC. IN MECHANICAL ENGINEERING (GPA: 16.73 from Total Of 20)**
Faculty of Mechanical Engineering, University of Guilan (Graduated: September 2013)
- **High School Diploma (GPA: 19.91 from Total Of 20) (Graduated: June 2008)**

AWARDS

- Ranked within the top 2% in Iran's nationwide university entrance exam for B.Sc. admission (June 2009)
- Ranked 5 among 49 undergraduate students of Solid Mechanics
Among first 10% of B.Sc. students of Department of Mechanical Engineering, University of Guilan
- Recognized as a Top Talent student by the faculty of engineering owing to be placed among the top 10% of the students
- Ranked 3 among the city in the comprehensive diploma examination (GPA: 19.91 from Total Of 20)

REASERCH INTERESTS

- Fault Diagnosis
- Machine Learning
- Deep Learning
- Information Fusion
- Data Mining
- Modelling
- Single & Multi-Objective Optimization
- System Identification
- Bio-mechanics
- Signal Processing

TEACHING ASSISTANT

- Linear control (Fall 2013, Spring 2014)
- Dynamics (Fall 2014)

PUBLICATIONS

❖ Journal Papers:

- Radman, M., **Moradi, M.**, et al., Multi-Feature Fusion Approach for Epileptic Seizure Detection from EEG Signals. IEEE Sensors Journal, 2020. <https://10.1109/JSEN.2020.3026032>
- **M. Moradi**, R. Shahnazi, and A. Chaibakhsh, "Individual-based multi-objective optimal structured treatment interruption for HIV infection," Applied Soft Computing, p. 105780, 2019/09/19/ 2019, <https://doi.org/10.1016/j.asoc.2019.105780>.
- **Moradi, M.**, A. Chaibakhsh, and A. Ramezani, An intelligent hybrid technique for fault detection and condition monitoring of a thermal power plant. Applied Mathematical Modelling, 2018. 60: p. 34-47. <https://doi.org/10.1016/j.apm.2018.03.002>
- **Moradi, M.**, Chaibakhsh, A., Ramezani, A., (2016). Early Fault Detection in Transient Conditions for a Steam Power Plant Subsystem Using Support Vector Machine, Modares Mechanical Engineering, Vol. 16, No. 10, pp. 405-411 (Fa). <http://lrr.modares.ac.ir/article-15-5772-en.html>

❖ Conference Papers:

- **Moradi, M.**, Chaibakhsh., A., Local Linear Model Identification for a Sub-section of Boiler Power Plant Using Neuro-fuzzy Approach, 1st National Conference on Soft Computing. 2015: University Of Guilan.
- **Moradi, M.**, A. Chaibakhsh, and M. Mohammadi. Multi-Sensor Feature Fusion and Grey Wolf Optimizer-Based Support Vector Machine for Transient Fault Detection in a Once-Through Power Plant. 2019 27th Iranian Conference on Electrical Engineering (ICEE 2019). <https://doi.org/10.1109/IranianCEE.2019.8786685>

❖ Accepted:

- Ensemble-Based Fault Detection and Isolation of an Industrial Gas Turbine

❖ Ongoing Projects:

- Designing an expert system to detect the fouling condition in a thermal Steam Power Plant

COMPUTER SKILLS

Skills

- Programming and Simulation: MATLAB, Python
- General Programs: Microsoft Office (Proficient)
- Launching Website: Wordpress

LANGUAGE SKILLS

- English:
Duolingo English Test: **Score: 115** (Equal to: 7 IELTS & (92-97) TOEFL)
[See credential](#)
- Persian: Native

REFERENCES

- Dr. Ali Chaibakhsh (chaibakhsh@guilan.ac.ir)
Associate Professor, Faculty of Mechanical Engineering, University of Guilan, Rasht, Iran
Director of Intelligent System & Advanced Control Laboratory (ISAC lab):
<http://isaclab.ir>
- Dr. Amin Ramezani (ramezani@modares.ac.ir)
Assistant Professor, School of Electrical and Computer Engineering, Tarbiat Modares University, Tehran, Iran
- Dr. Ali Jamali (ali.jamali@guilan.ac.ir)
Associate Professor, Faculty of Mechanical Engineering, University of Guilan, Rasht, Iran