Ahmad Salehiyan

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Education

Master of Science in Industrial Engineering-Systems Optimization

2019-2022

- O K. N. Toosi University of Technology, Tehran, Iran.
- o Supervisor: Abdollah Aghaie
- Thesis: "Predictive Maintenance of Advanced Industrial Machines using Artificial Intelligence Techniques."
- o Overall GPA: 3.42/4.00 (16.53/20) | Major courses GPA: 3.50/4.00
- o Selected Courses:

Design of experiments (A⁺)

Integer Variables (A⁺)

Bachelor of Science in Industrial Engineering

2014-2018

- o Islamic Azad University, Qazvin, Iran.
- o Supervisor: Masoud Moshfeghnia
- o Thesis: "Feasibility Study Industrial Company Manufacturing of Carbonless Paper."
- o Overall GPA: 3.52/4.00 (17.06/20) | Major courses GPA: 3.65/4.00
- o Selected Courses:

Computer Programming (A⁺) Operations Research I (A) Engineering statistics (A) Operations Research II (A⁺) Maintenance Planning (A⁺) Principles of Simulation (A⁺)

Research Interests

• Data Science & Artificial Intelligence

Optimization

Statistics

Maintenance

Signal Processing

Publication

- Salehiyan, A., Aghaei, A., Amouei, A. (2022). Discover Hidden Relationships and Patterns in Failure of Computer Numerical Control Equipment by Using Apriori Algorithm. *The 3rd International Conference on Challenges and New Solutions in Industrial Engineering, Management and Accounting*. [Accepted]
- Aghaei, A., **Salehiyan**, **A.** (2021). Prioritizing Equipment Maintenance Programs by Clustering Algorithms *The 14th International Conference of Iranian Operations Research Society.*
- Salehiyan, A., Aghaei, A., Mohammadi, Z. (2022). Implementation of Predictive Maintenance by Using LSTM and GRU Artificial Neural Networks, and Mathematical Cost Model. [Submitted]
- **Salehiyan, A.**, Aghaei, A., Mohammadi, Z., "Development of Fault Diagnosis Models Based on Predicting Vibration Signals of a Computer Numerical Control Machine." [Under Publication]

Honors and Awards

• Ranked **9th** among Systems Optimization M.Sc. students

2021

Ranked 4th among Industrial Engineering B.Sc. students

2017

Teaching and Research Experience

Teacher and Research Assistant (Dr. Abdollah Aghaie)

Oct. 2021 - present

o K. N. Toosi University of Technology

Teaching Microsoft Excel

Sep. 2019 - Oct. 2022

O A private tutor of one of the employees in a private company

Work Experience

Karin Crane Company

Apr. 2019 - Oct. 2019

Job Title: Industrial Engineer

o Project Management, Creating Quality Control Inspection Forms and Operation Process Charts

Private Engineering and Manufacturing Company

Apr. 2019- Oct. 2019

Job Title: Maintenance Trainee

o Data mining, Benchmarking, Creating Management Dashboards & Advanced Reports

Certificates and Skills

Certifications: Programming languages: Computer-aided design/engineering:
Statistical Package for the Social Python GAMS

Statistical Package for the Social Sciences (SPSS)
Minitab
COMFAR
Excel (Advance)
LATEX

R JavaScript jQuery HTML CSS GAMS
PostgreSQL
Power BI
Tableau
AutoCAD
SOLIDWORKS

Language Skills

ISO9001:2015 Microsoft Project

Weka

IELTS Overall: 6.5 (listening: 7 | reading: 6.5 | writing: 6 | speaking: 6)

Oct. 2022

Persian—Native or bilingual proficiency

Projects

Private Engineering and Manufacturing Company

Mar. 2022 – present

o Advisor: Abdollah Aghaie

 Project Title: "Early Fault Detection of Five-axis Numerical Control Tool Machine Based on Data mining Approaches and Similar Tools."

Absal Company Feb. 2020 - Jun 2020

 Project Title: "Optimization of Paint Coating Process on Galvanized Sheet Using Design and Analysis of Experiments."

Carbonless Form Company

Feb. 2019 - Jun 2019

o Project Title: "Feasibility Study Industrial Company Manufacturing of Carbonless Paper."

Volunteer Work

• IranOpen RoboCup: for helping to hold the RoboCup competitions, Iran.

Aug. 2016

References

Dr. Abdollah Aghaie

Full Professor, Industrial Engineering Department, K. N. Toosi University of Technology, Iran

Email: aaghaie@kntu.ac.ir

Dr. Yaser Samimi

Assistant Professor, Industrial Engineering Department, K. N. Toosi University of Technology, Iran

Email: y_samimi@kntu.ac.ir

Dr. Emad Roghanian

Associate Professor, Industrial Engineering Department, K. N. Toosi University of Technology, Iran

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