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
- o Thesis: "Predictive Maintenance of Advanced Industrial Machines by 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

2014-2019

- 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

Research Experience

K. N. Toosi University of Technology

Oct. 2021 - present

Teacher and Research Assistant (with Dr. Abdollah Aghaie)

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

Turbine Engineering and Manufacturing Company

Apr. 2019- Oct. 2019

Job Title: Maintenance Trainee

o Data mining, Benchmarking, Creating Management Dashboard

Teaching Experience

Teaching Microsoft Excel

Sep. 2019 - Oct. 2022

Computer-aided design/engineering:

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

Certificates and Skills

Certifications:
Statistical Package for the Social
Sciences (SPSS)
Minitab
COMFAR
Excel (Advance)
Microsoft Project
Weka

Programming languages:

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

ICDL 1-2

ISO22000 Language Skills

ISO9001:2015

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

Oct. 2022

Persian—Native or bilingual proficiency

Projects

Turbine Engineering and Manufacturing Company

Mar. 2022 – present

o Advisor: Abdollah Aghaie

o 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

o 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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