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

Linear Algebra (A⁺) Operations Research I (A)
Project Management (A⁺) Operations Research II (A⁺)
Maintenance Planning (A⁺) Production Planning (A⁺)
Computer Programming (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.
- 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 6th among Systems Optimization M.Sc. students

2020

Ranked 4nd among Industrial Engineering B.Sc. students

2017

Research Experience

K. N. Toosi University of Technology

Oct. 2021 - present

Teacher Assistant (with Dr. Abdollah Aghaie)

• Assisting my supervisor with research, marking of exam papers, and other academic activities.

Work Experience

Karin Crane Company

Apr. 2019 - Oct. 2019

Job Title: Industrial Engineer

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

Turbine Engineering and Manufacturing Company

Apr. 2019- Oct. 2019

Job Title: Maintenance Trainee

Data mining, Benchmarking, Creating Management Dashboard

Teaching Experience

Teaching Microsoft Excel: A private tutor of one of the people in a private company

Sep. 2019 - Oct. 2022

Certificates and Skills

Statistical Package for the Social	
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Programming languages: Python R JavaScript jQuery HTML CSS

Computer-aided design/engineering: GAMS PostgreSQL Power BI Tableau AutoCAD SOLIDWORKS ICDL 1-2

Language Skills

English—Professional working proficiency

IELTS: Will be taken on September 2022

Persian—Native or bilingual proficiency

Projects

Turbine Engineering and Manufacturing Company (TUGA)

Mar. 2022 - present

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

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

Email: e roghanian@kntu.ac.ir

Dr. Seyed Javad Hosseininezhad

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

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