

Amin Khoshkenar



ABOUT ME

A professional system analyst with more than 10 years of experience in system design using operational, data-oriented, and managerial skills.

My work experiences in the past includes collecting, cleaning, and analyzing system data together with simulating and optimizing the best policies and finally deep and managerial interpretation of final results.

I conveniently use my programming, problem-solving and presenting skills beside my work.

Skills

Data Science:	=====
Operational:	=====
Programming:	=====
Technical:	=====
Managerial:	=====

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Experience

CMAN Inc. (2020 - 2022)

Position: R&D head

Duty: policy design, system analysis, system simulation, organizing workshops, data analysis, regular presentations

MUSC Hospital (2017 - 2019)

Position: System Specialist

Duty: system analysis, simulation, data analysis, optimization

Memorial Hospital (2012 - 2014)

Position: Industrial Engineering Specialist

Duty: data collection, data analysis, system modeling

Education

Clemson University (2017 – 2019)

Incomplete Ph.D. in Industrial Engineering

University College London (2014 – 2015)

Masters in Operations Management

Koc University (2012 – 2014)

Masters in Industrial Engineering

Sharif University (2008 – 2012)

Bachelor in Industrial Engineering

PUBLICATIONS:

Khoshkenar, Amin, Kevin Taaffe, Miranda Muhs, Lawrence Fredendall, Yann Ferrand, Anjali Joseph, and Dee San. "Simulation-based design and traffic flow improvements in the operating room." In 2017 Winter Simulation Conference (WSC), pp. 2975-2983.

Taaffe, Kevin, Anjali Joseph, Amin Khoshkenar, Herminia Machry, David Allison, and Scott T. Reeves. "Proactive Evaluation of an Operating Room Prototype: A Simulation-Based Modeling Approach." *Journal of Patient Safety* (2020).

Bayramzadeh, Sara, Anjali Joseph, Dee San, Amin Khoshkenar, Kevin Taaffe, Roxana Jafarifiroozabadi, David M. Neyens, and RIPCHD. OR Study Group. "The impact of operating room layout on circulating nurse's work patterns and flow disruptions: A behavioral mapping study." *HERD: Health Environments Research & Design Journal* 11, no. 3 (2018): 124-138.

Taaffe, Kevin, Brandon Lee, Yann Ferrand, Lawrence Fredendall, Dee San, Cassandra Salgado, Dotan Shvorin, Amin Khoshkenar, and Scott Reeves. "The influence of traffic, area location, and other factors on operating room microbial load." *Infection Control & Hospital Epidemiology* 39, no. 4 (2018): 391-397.

Joseph, Anjali, Amin Khoshkenar, Kevin M. Taaffe, Ken Catchpole, Herminia Machry, and Sara Bayramzadeh. "Minor flow disruptions, traffic-related factors and their effect on major flow disruptions in the operating room." *BMJ Quality & Safety* 28, no. 4 (2019): 276-283.

Neyens, David M., Sara Bayramzadeh, Kenneth Catchpole, Anjali Joseph, Kevin Taaffe, Katherina Jurewicz, Amin Khoshkenar, Dee San, and RIPCHD OR Study Group. "Using a systems approach to evaluate a circulating nurse's work patterns and workflow disruptions." *Applied ergonomics* 78 (2019): 293-300.

Khoshkenar, Amin, and Hashem Mahlooji. "A New Test of Randomness for Lehmer Generators Based on the Manhattan Distance Between Pairs of Consecutive Random Numbers." *Communications in Statistics-Simulation and Computation* 42, no. 1 (2013):

CONFERENCE PRESENTATIONS:

2018 Khoshkenar, Amin, Kevin Taaffe, Lawrence Fredendall, Yann Ferrand. "Traffic flow improvements in the operating room using a Markov chain simulation model." Healthcare Systems Process Improvement Conference. Institute of Industrial and Systems Engineers (IISE).

2017 Khoshkenar, Amin, Kevin Taaffe, Miranda Muhs, Lawrence Fredendall, Yann Ferrand, Anjali Joseph, and Dee San. " Simulation-based design and traffic flow improvements in the operating room." IISE Annual Conference. Institute of Industrial and Systems Engineers (IISE).

2013 Khoshkenar, Amin, Lerzan Örmeci. "Hospital bed capacity management using Markov Decision Processes." Annual Healthcare Operations Workshop.

2013 Khoshkenar, Amin, Hashem Mahlooji. " Quality evaluation of Lehmer random number generators." EURO-INFORMS Joint International Meeting.

RESEARCH EXPERIENCE:

Event prediction using machine learning

Theoretic analysis of customers' decisions in the waiting room

Studying movement patterns in the procedure room

Analyzing the nurses' work patterns in the procedure room

Analyzing Infection spreading in a procedure room

Investigating flow disruptions in a procedure room

Studying the nurse staffing problem in the presence of strategic nurses

Investigating capacity allocation of a hospital's recovery room

Studying the circulation of infection in a patient recovery suite

TEACHING EXPERIENCE:

Production Planning and Control System Modeling
Modeling Logistics using Simulation
Introduction to Probability Theory Applied Statistics
Discrete-event System Simulatin

COMPUTER SKILLS:

Matlab, R, Arena, Gurobi, MS office, Visual Studio

LANGUAGES:

Azerbaijani, Farsi, English (TOEFL: 100), Turkish

SERVICE TO THE UNIVERSITY:

Helping in holding conferences and meetings