Mona Jabbari

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EDUCATION

Ph.D. Operations and Business Analytics
University of Oregon, Lundquist college of Business *2016-2021 (expected)*

Dissertation topic: Patient-Centric Innovation in Service Modalities for End-Stage Renal Disease
Advisor: Prof. Nagesh Murthy

M.S. Industrial Engineering
Bu-Ali Sina University, Iran *2011-2013*

B.S. Industrial Engineering
Bu-Ali Sina University, Iran *2007-2011*

RESEARCH INTERESTS

Methodology: Mathematical Modeling, Game Theory, Data Analysis, MCDM
Application: Healthcare Operations, Supply Chain Management, Health Economics

PUBLICATIONS

- "Parking Lot Site Selection Using A Fuzzy AHP-TOPSIS Framework in Tuyserkan, Iran" with S. kazazi, A. Akbari, and H. Assefi, *Journal of Urban Planning and Development,* Vol: 144, No:3, 2018.
- "M-machine, No-wait Flow-shop Scheduling With Sequence Dependent Setup Times And Truncated Learning Function to Minimize The Makespan", with V. Azizi, and A. S. Kheirkhah, *International Journal of Industrial Engineering Computation,* Vol:7, No:2, 2016.
- "Lot-streaming in No-wait M-machine Multi-product Flow-shop, Considering Sequence Dependent Setup Times And Position Based Learning Factors" with V . Azizi, *International Journal of Engineering,* Vol:28, No:7, 2015.

MANUSCRIPT IN PREPARATION

- "Economics of introducing a mobile clinic as an added or exclusive modality for dialysis service" with N. Murthy, and E. Cil, In final preparation for submission to *Production and Operations Management.*
- "A decision support system for multi-objective automatic clustering: a framework development", with S. Sheikh, and A. Oztekin, to be submitted to *Decision Support System.*

TEACHING EXPERIENCE

Sole Instructor at University of Oregon:

Operations Management (OBA 335), Undergraduate Core Course *Winter 2020*
(Online section scheduled)
Operations Management (OBA 335), Undergraduate Core Course *Fall 2019*
New descriptive evaluation system (further information)
Business Analytics I (OBA 311), Undergraduate Core Course *Summer 2019*

Overall Teaching Evaluation Score at University of Oregon: 4.5/5 | Department mean: 4.1

Sole Instructor at Bu-Ali Sina University *(in Persian)*:

Inventory Management, Bu-Ali Sina University, Undergraduate Core Course *Spring 2016*
Preventive Maintenance, Bu-Ali Sina University, Undergraduate Core Course *Spring 2016*
Work and Time Study, Bu-Ali Sina University, Undergraduate Core Course *Fall 2015*
Production Planning & Control, Bu-Ali Sina University, Undergraduate Core Course *Fall 2015*

Teaching Assistant:

Business Information Systems, University of Oregon, Undergraduate Core Course *Fall 2018*
Supply Chain Operations and Management, University of Oregon, Graduate Course *Spring 2018*
Information Analysis Managerial Decision, University of Oregon, Graduate Core Course *Winter 2018*
Business Statistics, University of Oregon, Undergraduate Core Course *Fall 2017*
Analyzing Big Data, University of Oregon, Undergraduate Core Course *Spring 2017*

Teaching Training:

Ph.D. Students Teaching Training, Lundquist college of Buisness, University of Oregon
Teaching as a Sole Instructor, Teaching Effectiveness Program, University of Oregon
Creating Interactive Multimedia Lessons in Canvas, Lundquist college of Buisness, University of Oregon
Planning Class Sessions, Teaching Effectiveness Program, University of Oregon
Grading and Feedback Strategy, Teaching Effectiveness Program, University of Oregon

AWARDS AND ACHIEVEMENTS

Robin & Roger Best Teaching Award, Lundquist College of Business *2019*
Recognizing outstanding teaching performances by doctoral students demonstrating excellence in teaching
Summer Research Scholarship, Lundquist College of Business *2017-2019*

SERVICES

Program Assistant for Program Committee, POMS Conference, Washington, D.C. *2019*
Program Assistant for Program Committee, POMS Conference, Houston, TX *2018*
Program Assistant for Program Committee, POMS Conference, Seattle, WA *2017*
Assistant Editor, Student Chapter of Industrial Engineering, Bu-Ali Sina university *2009-2011*

WORK EXPERIENCE

Lecturer, Bu-Ali Sina University, Hamedan, Iran *Sep 2015 - June 2016*
Business Analyst, Arad Corporation, Hamedan, Iran *Jan 2014 - Sep 2015*

COMPUTER SKILLS

Programming Languages: Python, MATLAB
Optimization Packages: GAMS, Lingo
Statistics and Math Packages: STATA, Minitab, Mathematica
Database Management: SQL, Excel
Project Planning and Scheduling Microsoft Project (MSP)

WORK AUTHORIZATION STATUS

Permanent Resident (Green Card Holder)

REFERENCES

Prof. Nagesh Murthy
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ABSTRACT OF UNPUBLISHED PAPERS

Economics of introducing a mobile clinic as an added or exclusive modality for dialysis service
(with N. Murthy, and E. Cil)

In this research, we explore the possibility of the introduction of a new and non-traditional dialysis service modality, called a mobile dialysis clinic, that can reduce the travel burden for ESRD patients, resulting in a reduction in hospitalization costs undertaken by Medicare. To this end, we develop a framework to consider the strategic interaction between Medicare and a dialysis service provider and examine the potential benefit to Medicare for considering a "shared-savings payment policy." Specifically, the incentive payment structure we consider features "reward rate" as the percentage of hospitalization cost savings that the provider receives as a bonus payment for offering coverage using a mobile dialysis clinic. We show that as the reward rate increases beyond a threshold, the provider serves more patients with the new modality, which in turn decreases the hospitalization costs for Medicare. Since Medicare faces a trade-off between hospitalization cost and sharing cost-savings with the provider, Medicare does not always optimally offer enough compensation to the provider to justify offering the new service modality. However, we also identify certain conditions under which Medicare, interestingly, finds it optimal to increase the reward rate to incentivize the provider to offer a mobile clinic even when this increased reward rate results in a drastic improvement in provider's profit with only a marginal reduction in Medicare's cost. Hence, our findings can help policy makers to design new policies that motivate providers to introduce new and innovative ways of offering dialysis to patients.

A decision support system for multi-objective automatic clustering: a framework development
(with S. Sheikh,and A. Oztekin)

Automatic clustering algorithms categorize big data sets by aggregating the similarities in the data points. Depending on the data set, the estimates from automatic clustering algorithms result in different determinations. Therefore, determining an efficient algorithm that can accurately estimate the clusters based on the nature of the data set is critical. There is a lack of generalizability among the developed performance metrics for automatic clustering algorithms as each of them considers a limited number of objectives and mostly ignores the other aspects of clustering validation. Moreover, theoretically, summation-based aggregation methods that convert multiple performance metrics into a single score have weak performance. This is especially challenging when the decision-maker (DM) who is in charge of clustering has little or no information over the data set and criteria of interest. To bridge the mentioned gaps, we develop an efficient hybrid framework that dynamically integrates the benefits of various performance measures to find the best estimate of data mapping. We design an integrated-collaborative decision support system (DSS) for multi-objective automatic clustering. We develop a mixed-integer non-linear programming model and propose a six-step DSS framework to solve it. First, the DM selects validity indexes and algorithms, and the quality threshold is accordingly determined. Based on the selected validity indexes, a new normalized aggregated function is developed and solved as an input for data envelopment analysis. Finally, we employ DEA tools to define the final clustering output among all possible solutions. Our proposed approach's applicability is illustrated on a randomly generated problem, and the result at each step is discussed in detail.