

Curriculum Vitae

PERSONAL INFORMATION

Vahid Akbarighadikolaei

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CURRENT JOB

Assistant Professor at MEF University, February 2016 till now

EDUCATION

*Bachelor of Science, Industrial Engineering
Sharif University of Technology, Tehran, Iran, July 2012
Concentration: Operations Research
GPA: 16.52 (out of 20)*

*Ph.D, Industrial Engineering and Operations Management
Koç University, Istanbul, Turkey, October 2016
Concentration: Network Optimization
Thesis title: Multi-vehicle Arc Routing for Connectivity Problems
GPA: 3.94 (out of 4)*

RESEARCH INTERESTS

1. Combinatorial Optimization
2. Matheuristics and Metaheuristic Algorithms
3. Mathematical Modeling
4. Network Models
5. Applied Operations Research in Network Design and Logistics

EXPERIENCE

*Instructor at Koç University, Fall 2016,
Course: EQUR 101 - Quantitative Reasoning Using Computers*

*- Graduate Research Assistant, Koç University, Istanbul, Turkey From fall
2012 till October 2016*

Research Outlines:

- Developing exact models, matheuristics and metaheuristic
- Disaster response phase logistics
- Making connectivity of the road network after a natural disaster
- Maximizing the number of accessible people within a given time limit

*- Sponsored Research Project by TÜBİTAK, Koç University, Istanbul, Turkey
From 2014 till October 2016*

*Title: Optimization of Arc Routing Decisions in Real-Time for Emergency Route
Clearing in Disaster Response.*

*- Sponsored Research Project by TÜBİTAK, Koç University, Istanbul, Turkey
From 2012 till 2014*

Title: Logistics Planning for Restoring the Connectivity of Highways after a Disaster.

- *Teaching Assistant at Koç University* From fall 2012 till September 2016
Department of Engineering, Koç University, Istanbul, Turkey

- Mathematical Programming (Fall 2012)
- Information Systems (Fall 2013)
- Operations Research Applications (Spring 2015 and 2016)
- Network Models and Optimization (Fall 2014 and 2015)

**PUBLICATIONS /
CONFERENCE
PRESENTA-
TIONS**

Published

Vahid Akbari, F. Sibel Salman, Multi-vehicle prize collecting arc routing for connectivity problem, *Computers & Operations Research*, Volume 82, June 2017, Pages 52-68, ISSN 0305-0548.

V. Akbari, F. Sibel, Salman, Multi-vehicle synchronized arc routing problem to restore post-disaster network connectivity, *European Journal of Operational Research*, Volume 257, Issue 2, 1 March 2017, Pages 625-640, ISSN 0377-2217.

Akbari, V. and S. Salman, A Model-Based Heuristic to the Min Max K-Arc Routing for Connectivity Problem, 4th Student Conference on Operational Research, OpenAccess Series in Informatics (OASICs).

Proceeding

- *Akbari, V.* Single-depot Multi-vehicle Arc Routing Connectivity Problem.

- *Ajam, M., V. Akbari and S. Salman*, Minimizing Latency in Post-disaster Debris Removal.

Conferences

- *V. Akbari and S. Salman*, Multi-vehicle synchronized arc routing problem to restore post-disaster network connectivity, 28th European Conference on Operational Research, Poznan, Poland July 2016.

- *V. Akbari and S. Salman*, A Model-Based Heuristic to the Min Max K-Arc Routing for Connectivity Problem, 4th Student Conference on Operational Research (SCOR 14), Nottingham, UK, May 2014.

- *V. Akbari and S. Salman*, Arc Routing for Connectivity Problem (ARCP), 34th National Conference for Operations Research and Industrial Engineering (YAEM 34), Bursa, Turkey, June 2014.

- *S. Salman and V. Akbari*, Arc routing for connectivity in disaster response, International Symposium on Locational Decision (ISOLDE 2015), Naples/Capri,

Italy, June 2014.

- V. Akbari and S. Salman, Multi-Vehicle Arc Routing for Connectivity Problem (K-ARCP), 22nd International Symposium on Mathematical Programming (ISMP 2015), Pittsburgh, PA, United States July 2015.

- V. Akbari and S. Salman, Prize Collecting Arc Routing for Connectivity Problem (KPC-ARCP), Informs Annual Meeting 2015, Philadelphia, PA, United States November 2015.

**AWARDS
HONORS**

- Fellowship for doctoral studies by Dean of Koç University, Istanbul, Turkey (September 2012)
- Selected by Brilliant Talents Rule to enter MBA program at Sharif University of Technology with full scholarship, Tehran, Iran (September 2012)
- Ranked 49 among almost 400,000 participants (top 0.02%) in the National Entrance Exam of the public universities, Iran (September 2008)

**COMPUTER
SKILLS**

Languages & Software:

- Programming: Python, Visual Basics for Applications (VBA), C++, MATLAB
- Operations Research: Gurobi, GAMS, Lingo
- Miscellaneous: Latex, Microsoft Office

LANGUAGES

English: Fluent
Persian: Native
Turkish: Basic
Arabic: Basic

TRAINING

Attended "Annual Constraint Programming" (ACP) summer school in Bologna, Italy, 2014.