

**Saman Aminbakhsh, Ph.D.**  
**Assistant Professor of Civil Engineering**

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**PERSONAL**

<b>Date of Birth</b>	1986
<b>Place of Birth</b>	Tabriz

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**EDUCATION**

<b>2013-2018</b>	Middle East Technical University, Civil Engineering, Ph.D.
<b>2010-2013</b>	Middle East Technical University, Civil Engineering, M.Sc.
<b>2004-2009</b>	Azad University of Tabriz, Civil Engineering, B.Sc.

**ACADEMIC POSITIONS**

<b>November/2018-</b>	Assistant Professor, Department of Civil Engineering, Atılım University, Ankara, Turkey
<b>March/2014- March/2016</b>	Research Assistant, Department of Civil Engineering Middle East Technical University, Ankara, Turkey

**ADMINISTRATIVE DUTIES**

<b>January/2019-</b>	Vice Chair, Department of Civil Engineering, Atılım University, Ankara, Turkey
<b>January/2019-</b>	Department Internship Coordinator, Department of Civil Engineering, Atılım University, Ankara, Turkey

**HONORS & AWARDS**

<b>1</b>	Outstanding Reviewer Certificate awarded by <i>American Society of Civil Engineers (ASCE)</i> , 2021
<b>2</b>	Highest Cited Research Certificate awarded by <i>Elsevier</i> , 2016

## RESEARCH INTERESTS

1	Multi-Objective Optimization
2	Resource Leveling
3	Resource Constraint Optimization
4	Evolutionary Algorithms

## PROFESSIONAL SERVICE

1	Scientific Committee: Bright Optimizer – International Student Competition in Structural Optimization, 2018-present.
2	Scientific Committee: 8th Symposium on Construction Management (TMMOB)
3	Scientific Committee: 7th International Project and Construction Management Conference (IPCMC 2022)
4	Scientific Committee: 6th International Conference on Harmony Search, Soft Computing and Applications (ICHSA 2020)
5	Scientific Committee: 6th International Project and Construction Management Conference (IPCMC 2020)
6	Peer-Reviewer: Journal of Construction Engineering and Management (ASCE)
7	Peer-Reviewer: Canadian Journal of Civil Engineering
8	Peer-Reviewer: IEEE – Access
9	Peer-Reviewer: IEEE – Transactions on Evolutionary Computation
10	Peer-Reviewer: IEEE – Transactions on Engineering Management

## PUBLICATIONS

1	Azad S. K. and Aminbakhsh S., $\epsilon$ -constraint guided stochastic search with successive seeding for multi-objective optimization of large-scale steel double-layer grids, Journal of Building Engineering, 46, 103767, 2022.
2	Azad S. K., Aminbakhsh S., and Shaban S. S. S., Multi-stage guided stochastic search for optimization and standardization of free-form steel double-layer grids, Structures, 34, 678-699, 2021.
3	Azad S. K. and Aminbakhsh S., High-dimensional optimization of large-scale steel truss structures using guided stochastic search, Structures, 33, 1439-1456, 2021.
4	Sonmez R., Aminbakhsh S., and Atan T., Activity Uncrashing Heuristic with Noncritical Activity Rescheduling Method for the Discrete Time-Cost Trade-Off Problem, Journal of Construction Engineering and Management (ASCE), 146 (8), 04020084, 2020.
5	Aminbakhsh S. and Sonmez R., A Pareto Front Particle Swarm Optimizer for Discrete Time-Cost Trade-Off Problem, Journal of Computing in Civil Engineering (ASCE), 31 (1), 04016040-1 – 04016040-10, 2017.
6	Aminbakhsh S. and Sonmez R., Discrete Particle Swarm Optimization Method for the Large-Scale Discrete Time-Cost Trade-Off Problem, Expert Systems with Applications, 51, 177 – 185, 2016.

7	Aminbakhsh, S., Gunduz, M., and Sonmez, R., Safety risk assessment using analytic hierarchy process (AHP) during planning and budgeting of construction projects, Journal of Safety Research, 46, 99 – 105, 2013.
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## CONFERENCE PRESENTATIONS

1	Aminbakhsh S. and Sonmez R., Integrating a Meta-Heuristic Method into Microsoft Project for Time-Cost Trade-off Analyses, 5th International Project and Construction Management Conference (IPCMC), Cyprus, 2018.
2	Seyisoglu, B., Aminbakhsh S., and Sonmez R., A Heuristic for Resource-Constrained Multi-Project Discrete Time-Cost Trade-Off Problem, 5th International Project and Construction Management Conference (IPCMC), Cyprus, 2018.
3	Aminbakhsh S., Sonmez R., and Atan T., An Efficient Heuristic Method for Pareto Oriented Optimization of Time-Cost Trade-Off Problem for Construction Projects, Procs. IO2017 The XVIII Congress of the Portuguese Association of Operational Research, Portugal, 2017.
4	Aminbakhsh S., Sönmez R., and Bilir M., Tamsayılı Doğrusal Programlama Yöntemiyle Kesikli Zaman-Maliyet Ödünleşim Probleminin Optimal Pareto Çözümü, 4. Proje ve Yapım Yönetimi Ulusal Kongresi, Turkey, 2016.
5	Aminbakhsh S. and Sonmez R., Pareto Oriented Optimization of Discrete Time-Cost Trade-Off Problem Using Particle Swarm Optimization, Procs 31th Annual ARCOM Conference, UK, 2015.
6	Aminbakhsh S., Sönmez R., Iranagh, M.A., and Rezvankhah E., Kuş Sürüsü Optimizasyon Algoritması ile Kesikli Zaman-Maliyet Ödünleşim Probleminin Çözümü, 3. Proje ve Yapım Yönetimi Ulusal Kongresi, Turkey, 2014.
7	Haghooei A. and Aminbakhsh S., Türk Müteahhitlerin İran İnşaat Sektöründe Karşılaşabilecekleri Risklerin İncelenmesi, 2. Proje ve Yapım Yönetimi Ulusal Kongresi, 2012.

## CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	296
H-index (ISI Web of Science):	5

## COURSES GIVEN

1	Engineering Fundamentals (B.Sc.)
2	Construction Planning and Cost Estimating (B.Sc.)
3	Construction Engineering and Management (B.Sc.)
4	Construction Scheduling and Cost Control (B.Sc.)

## THESES SUPERVISED

1	M.Sc. Thesis, " <i>Implementation of Expert Systems in CAPP for Predictive Maintenance in Discrete Manufacturing Systems</i> " with Elaf Al-Humairi, 2022. (Co-Supervisor)
2	M.Sc. Thesis, " <i>A Meta-Heuristic for the Discrete Time-Cost-Quality Trade-Off Problem with Generalized Precedence Relationships</i> " with Abdulrahman Abdulsattar, 2021.
3	M.Sc. Thesis, " <i>A Comparative Study on Resource Leveling Capabilities of Commercial Project Management Software Packages for Projects with Resource Constraints</i> " with Noor Albayati, 2021.
4	M.Sc. Thesis, " <i>Risk Assessment of Construction Projects for Oil and Gas Processing Facilities in Iraq</i> " with Muhanned Dawood, 2021.
5	M.Sc. Thesis, " <i>Genetic-Algorithm-based Optimization Approach for Time-Cost Trade-Off Problem with Generalized Precedence Relationships</i> " with Ary Ahmed, 2020.
6	M.Sc. Thesis, " <i>Integrated Resource Leveling and Cash Flow Optimization for Construction Projects using Symbiotic Organisms Search Algorithm</i> " with Başak Seyisoğlu, 2020. (Co-Supervisor)