

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

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PERSONAL

Date of Birth	1986
Place of Birth	Tabriz

EDUCATION

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

ACADEMIC POSITIONS

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

ADMINISTRATIVE DUTIES

January/2019- January/2023	Vice Chair, Department of Civil Engineering, Atılım University, Ankara, Turkey
January/2019- January/2023	Department Internship Coordinator, Department of Civil Engineering, Atılım University, Ankara, Turkey

HONORS & AWARDS

1	Outstanding Reviewer Certificate awarded by <i>American Society of Civil Engineers (ASCE)</i> , 2022
2	Outstanding Reviewer Certificate awarded by <i>American Society of Civil Engineers (ASCE)</i> , 2021
3	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	Ahmadisheykhsarmast S., Aminbakhsh S., Sonmez R., and Uysal F., A Transformative Solution for Construction Safety: Blockchain-based System for Accident Information Management, Journal of Industrial Information Integration, 100491, 2023.
2	Albayati N.H.F and Aminbakhsh S., Resource allocation capabilities of commercial project management software packages for resource leveling and resource constrained project scheduling problems: A comparative study, Journal of Construction Engineering, Management & Innovation, 6 (2), 104-123, 2023.
3	Azad S. K. and Aminbakhsh S., ϵ -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.
4	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.

5	Azad S. K. and Aminbakhsh S., High-dimensional optimization of large-scale steel truss structures using guided stochastic search, Structures, 33, 1439-1456, 2021.
6	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.
7	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.
8	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.
9	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.

CONFERENCE PRESENTATIONS

1	Aminbakhsh S., An ϵ -Constraint Method with Adaptive Mode Elimination Scheme for Multi-Objective Mixed Integer Programming, Creative Construction Conference (CCC2023), Hungary, 2023.
2	Al-Humairi E.R.E, Lotfi B., and Aminbakhsh S., Development of an ontology based dynamic process planning and Scheduling methodology for discrete manufacturing systems, 19th International Conference on Machine Design and Production (UMTIK 2022), Turkey, 2022.
3	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.
4	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.
5	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.
6	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.
7	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.

8	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.
9	Haghighooei A. and Aminbakhsh S., Türk Müteahhitlerin İran İnşaat Sektöründe Karşılaşılabilecekleri Risklerin İncelenmesi, 2. Proje ve Yapım Yönetimi Ulusal Kongresi, Turkey, 2012.

CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	342
H-index (ISI Web of Science):	6

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)