

ÖZGE BÜYÜKDAĞLI, Ph.D.



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ACADEMIC EXPERIENCE

2019 - : **Assistant Professor**, Computer Sciences and Engineering, International University of Sarajevo, Bosnia and Herzegovina

2016 – 2017: Visiting Researcher, Industrial Engineering Department, Bilkent University, Ankara, Turkey

2012 - 2016 : Research Assistant, Industrial Engineering Department, Yaşar University, Turkey

ADMINISTRATIVE EXPERIENCE

2023 - : **Program Coordinator**, Artificial Intelligence and Data Engineering, International University of Sarajevo, Bosnia and Herzegovina

2020 - : **Program Coordinator**, Software Engineering, International University of Sarajevo, Bosnia and Herzegovina

2020 - 2022 : Program Coordinator, Computer Sciences and Engineering, International University of Sarajevo, Bosnia and Herzegovina

EDUCATION

PhD	Industrial Engineering - Yaşar University, Turkey Thesis Title: Continuous Time Control of Tandem Production Lines Supervisor: Prof. M. Murat Fadiloğlu	2018
MSc	Industrial Engineering - Yaşar University, Turkey Thesis Title: Metaheuristics for the No-Idle Permutation Flowshop Scheduling Problem Supervisor: Prof. M. Fatih Taşgetiren	2013
BSc	Industrial Systems Engineering – Izmir University of Economics, Turkey	2010

PUBLICATIONS AND PRESENTATIONS

- **Publications in international journals**

Hafiz Muhammad Ali, Tauseef-ur Rehman, Müslüm Arıcı, Zafar Said, Benjamin Duraković, Hayder I. Mohammed, Rajan Kumar, Manish K. Rathod, Ozge Buyukdagli, Mohamed Teggur. “Advances in thermal energy storage: Fundamentals and applications”, *Progress in Energy and Combustion Science*, Volume 100, January 2024, 101109.

Ayca Kirimtat, M. Fatih Tasgetiren, Ondrej Krejcar, Ozge Buyukdagli, Petra Maresova. “A multi-objective optimization framework for functional arrangement in smart floating cities”, *Expert Systems with Applications*, Volume 237, Part A, 1 March 2024, 121476.

Sencer Yeralan, Ozge Buyukdagli, "A Decision Support System for Curricula Design", *Periodicals of Engineering and Natural Sciences*, Vol. 9, No. 4, 632-642, 2021 (Scopus)

Ozge Buyukdagli, Sencer Yeralan, “How do weights affect faculty performance evaluations?”, *Sustainable Engineering and Innovation*, Vol. 2, No. 2, 89-101, 2020.

M. Fatih Tasgetiren, Quan-Ke Pan, P. N. Suganthan, Ozge Buyukdagli, A Variable Iterated Greedy Algorithm with Differential Evolution for the No-Idle Permutation Flowshop Scheduling Problem, *Computers & Operations Research*, Vol. 40, 1729–1743, 2013. (SCI)

- **Book Chapters**

Benjamin Duraković, Muhamed Hadziabdić, Ozge Buyukdagli. (2023). Building energy demand management strategies and methods. In *Building Energy Flexibility and Demand Management* (pp. 63-85). Academic Press.

M. Fatih Tasgetiren, Ozge Buyukdagli, Damla Kızılay, Korhan Karabulut, A Populated Iterated Greedy Algorithm with Inver-Over Operator for Traveling Salesman Problem, *Swarm, Evolutionary, and Memetic Computing, Lecture Notes in Computer Science* Volume 8297, 1-12, 2013.

M. Fatih Tasgetiren, Ozge Buyukdagli, Quan-Ke Pan, P. N. Suganthan, A General Variable Neighborhood Search Algorithm for the No-Idle Permutation Flowshop Scheduling Problem, *Swarm, Evolutionary, and Memetic Computing, Lecture Notes in Computer Science* Volume 8297, 24-34, 2013.

M. Fatih Tasgetiren, Quan-Ke Pan, Ponnuthurai N. Suganthan, Ozge Buyukdagli: A Variable Iterated Greedy Algorithm with Differential Evolution for Solving No-Idle Flowshops. *Swarm and Evolutionary Computation, Lecture Notes in Computer Science*, Vol. 7269, 128-135, 2012.

- **Works presented at international conferences and published in proceedings**

Buyukdagli O., Yaman E., Mersni A., “Student Performance Analysis Using Data Mining Techniques: a Case Study”, *International Conference on Intelligence-Based Transformations of Technology and Business, ICITTB 2022*

Al-Buenain, A. A., Kizilay, D., Buyukdagli, O., & Tasgetiren, M. F. (2020, July). A Novel Differential Evolution Algorithm with Q-Learning for Economical and Statistical Design of X-Bar Control Charts. In *2020 IEEE Congress on Evolutionary Computation (CEC)* (pp. 1-8). IEEE.

Ozge Buyukdagli, Emre Nadar, M. Murat Fadiloğlu, Decomposition via Column Generation for Control of Tandem Production Lines, in Proceedings of 11th Conference on Stochastic Models of Manufacturing and Service Operations, Italy (SMMSO 2017).

M. Murat Fadiloğlu, Ozge Buyukdagli, Continuous Time Control of Tandem Production Lines, in Proceedings of 10th Conference on Stochastic Models of Manufacturing and Service Operations, 67, Greece (SMMSO 2015)

Sencer Yeralan, Ozge Buyukdagli, The Ontology of Large-Scale Markovian Models, in Proceedings of 10th Conference on Stochastic Models of Manufacturing and Service Operations, 287, Greece (SMMSO 2015).

SELECTED PROJECTS

2022 – : “IT Sector On-the-Job Training Program” – Türkiye 2022-2023, BHPP – Bosnia and Herzegovina Partnership Programme

2019 (3 months): “Bottleneck Analysis for Sheet-fed Offset Ink Production Lines”, TOYO Inks, Turkey (Project Engineer)

2016 – 2017 : “Production Control and Stock Rationing in Tandem Production Lines”, Scientific Research Project funded by Yaşar University with Dr. M. Murat Fadiloğlu (Researcher)

2014 – 2015 : “Control of Make-to-Stock Production Systems”, The Scientific and Technological Research Council of Turkey (TÜBİTAK) Project No: 213M355 (Scholar)

2013 – 2014 : “Demand Forecasting at DYO Inks”, with Dr. M. Murat Fadiloğlu and Dr. Önder Bulut, funded by DYO Inks, Turkey (Researcher)

2012 – 2013 : “A New Differential Evolution Algorithm for the No-idle Permutation Flowshop Scheduling Problem with the Total Flow Time Criterion”, The Scientific and Technological Research Council of Turkey (TÜBİTAK) Project No: 110M622 (Scholar)

AWARDS

TÜBİTAK National Graduate Scholarship Program Scholar (TÜBİTAK 2211-Yurt İçi Lisansüstü Burs Programı Bursiyeri), 2013-2017

TÜBİTAK Incentive Award for International Scientific Publications (TÜBİTAK Uluslararası Bilimsel Yayın Teşvik Ödülü, UBYT), 2013

VOLUNTEER WORK

Volunteer (2006-2010) - Community Volunteers Foundation (TOG), Turkey

Member (2020-2022) - Sustainable Development Goals Steering Committee in International University of Sarajevo

Member (2022-) - Sustainable Development Goals Executive Committee in International University of Sarajevo

Vice-Chair (2022-) - Sarajevo ACM-W Chapter

MEMBERSHIPS

ACM – Association of Computing Machinery (2022 – Present)

LANGUAGES

Turkish (Native), English (Fluent), Italian (Basic), Bosnian (Basic)
