Assoc. Prof. Yasin GÖÇGÜN

Personal Information

Email: yasin.gocgun@medipol.edu.tr

Web: https://avesis.medipol.edu.tr/yasin.gocgun

International Researcher IDs

ORCID: 0000-0003-3005-7596

Publons / Web Of Science ResearcherID: IQW-5808-2023

ScopusID: 22634033100 Yoksis Researcher ID: 237842

Education Information

Doctorate, University of Washington, United States Of America 2005 - 2010

Postgraduate, Ihsan Dogramaci Bilkent University, Mühendislik Ve Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Yl) (Tezli), Turkey 2003 - 2005

Undergraduate, Ihsan Dogramaci Bilkent University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 1999 - 2003

Dissertations

Doctorate, Approximate Dynamic Programming for Dynamic Stochastic Resource Allocation with Applications to Healthcare, University of Washington, 2010

Postgraduate, Beam search algorithms for the mixed-model assembly line sequencing, Ihsan Dogramaci Bilkent University, Mühendislik Ve Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Yl) (Tezli), 2005

Academic Titles / Tasks

Associate Professor, Istanbul Medipol University, Mühendislik Ve Doğa Bilimleri Fakültesi, Endüstri Mühendisliği Bölümü, 2022 - Continues

Assistant Professor, Istinye University, Faculty Of Engineering, Department Of Industrial And Systems Engineering, 2020 - 2022

Assistant Professor, Altinbas University, Faculty Of Engineering And Natural Sciences, Department Of Industrial Engineering, 2014 - 2020

Courses

Stochastic Modeller, Undergraduate, 2021 - 2022

Yöneylem Araştırması Modelleme Uygulamaları, Undergraduate, 2021 - 2022, 2020 - 2021

Modelleme ve Optimizasyon 2, Undergraduate, 2021 - 2022

Modelleme ve Optimizasyon 1, Undergraduate, 2021 - 2022

İmalat Süreçleri ve İşlem Analizi, Undergraduate, 2021 - 2022

Optimizasyona Giriş, Undergraduate, 2020 - 2021

Dinamik Optimizasyona Giriş, Undergraduate, 2020 - 2021

ÜRETİM SİSTEMLERİ YÖNETİMİ, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Yöneylem Araştırması Modelleme Uygulamaları, Undergraduate, 2019 - 2020, 2016 - 2017, 2014 - 2015

İŞLEM ANALİZİ VE TASARIMI, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Tamsayılı ve Dinamik Programlama, Undergraduate, 2019 - 2020, 2017 - 2018

Kalite Planlama ve Denetimi, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015

Mühendislik Ekonomisi Finansı, Undergraduate, 2019 - 2020

Dinamik Programlama, Postgraduate, 2018 - 2019

Endüstri Mühendisliğine Giriş, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Yöneylem Araştırması 2, Undergraduate, 2017 - 2018

Çizelgeleme, Undergraduate, 2015 - 2016

Advising Theses

Yasin G., Direct search based approximate dynamic programming technique for dynamic stochastic advanced scheduling, Postgraduate, A.HASSAN(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

I. Simulation-based approximate policy iteration for dynamic patient scheduling for radiation therapy Gocgun Y.

Health Care Management Science, vol.21, no.3, pp.317-325, 2018 (SSCI)

II. Approximate policy iteration for dynamic resource-constrained project scheduling

Salemi Parizi M., Gocgun Y., Ghate A.

Operations Research Letters, vol.45, no.5, pp.442-447, 2017 (SCI-Expanded)

III. Cost-effectiveness of breast cancer screening policies using simulation

Gocgun Y., Banjevic D., Taghipour S., Montgomery N., Harvey B., Jardine A., Miller A.

Breast, vol.24, no.4, pp.440-448, 2015 (SCI-Expanded)

IV. Technical note-trading off quick versus slow actions in optimal search

Shechter S. M., Ghassemi F., Gocgun Y., Puterman M. L.

Operations Research, vol.63, no.2, pp.353-362, 2015 (SCI-Expanded)

V. Dynamic scheduling with due dates and time windows: An application to chemotherapy patient appointment booking

Gocgun Y., Puterman M. L.

Health Care Management Science, vol.17, no.1, pp.60-76, 2014 (SSCI)

VI. Lagrangian relaxation and constraint generation for allocation and advanced scheduling Gocgun Y., Ghate A.

Computers and Operations Research, vol.39, no.10, pp.2323-2336, 2012 (SCI-Expanded)

VII. A Markov decision process approach to multi-category patient scheduling in a diagnostic facility Gocgun Y., Bresnahan B. W., Ghate A., Gunn M. L.

Artificial Intelligence in Medicine, vol.53, no.2, pp.73-81, 2011 (SCI-Expanded)

VIII. Backtracking and exchange of information: Methods to enhance a beam search algorithm for assembly line scheduling

Sabuncuoğlu I., Gocgun Y., Erel E.

European Journal of Operational Research, vol.186, no.3, pp.915-930, 2008 (SCI-Expanded)

IX. Mixed-model assembly line sequencing using beam search

Erel E., Gocgun Y., Sabuncuoğlu I.

International Journal of Production Research, vol.45, no.22, pp.5265-5284, 2007 (SCI-Expanded)

X. Analysis of serial production lines: Characterisation study and a new heuristic procedure for optimal buffer allocation

Sabuncuoglu I., Erel E., Gocgun Y.

International Journal of Production Research, vol.44, no.13, pp.2499-2523, 2006 (SCI-Expanded)

Articles Published in Other Journals

I. Optimal Matchday Schedule for Turkish Professional Soccer League using Nonlinear Binary Integer Programming

GÖÇGÜN Y., BAKIR N. O.

AN INTERNATIONAL JOURNAL OF OPTIMIZATION AND CONTROL: THEORIES & APPLICATIONS (IJOCTA), vol.12, pp.113-127, 2022 (Scopus)

II. Performance comparison of approximate dynamic programming techniques for dynamic stochastic scheduling

GÖÇGÜN Y.

International Journal of Optimization and Control: Theories and Applications, vol.11, no.2, pp.178-185, 2021 (Scopus)

III. A Markov Decision Process Approach for Mental Health

GÖÇGÜN Y.

Konya mühendislik bilimleri dergisi (Online), vol.8, pp.258-268, 2020 (Peer-Reviewed Journal)

IV. Approximate Dynamic Programming for Optimal Search with an Obstacle GÖÇGÜN Y.

SELCUK UNIVERSITY JOURNAL OF ENGINEERING, SCIENCE AND TECHNOLOGY, vol.7, pp.89-104, 2019 (Peer-Reviewed Journal)

V. Dynamic Scheduling with Cancellations: An Application to Chemotherapy Appointment Booking GÖÇGÜN Y.

An International Journal of Optimization and Control: Theories and Applications, vol.8, pp.161-169, 2018 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. Fair Assignment of Matchdays in Turkish Super League under a Rest Mismatch Minimization Objective

Göçgün Y., Bakır N. O.

Proceedings of the 6th Industrial Engineering and Operations Management Bangladesh Conference, 26 - 28 December 2023, pp.228-239

II. A novel integer programming model for the fixture schedule of Turkish professional soccer league Göçgün Y.

Proceedings of the 6th European Conference on Industrial Engineering and Operations Management, Lisbon, Portugal, 18 - 20 July 2023, pp.1-9

III. Stochastic Dynamic Optimization for Dynamic Scheduling

Göçgün Y.

Proceedings of the 3rd South American International IEOM Conference, Asuncion, Paraguay, 19 - 21 July 2022, pp.327-335

IV. Factors Impacting Enrollment Rates of Foundation Universities: A Multiple Regression Analysis Göçgün Y.

Proceedings of the 3rd South American International IEOM Conference, Asuncion, Paraguay, 19 - 21 July 2022, pp.373-378

V. Determining the Matchdays for the Turkish Super League using Non-Linear Binary Integer Programming

Göçgün Y., Bakır N. O., Saleh B. A.

12th Annual International Conference on Industrial Engineering and Operations Management, 7 - 10 March 2022, pp.4745-4756

VI. İptal İçeren Dinamik Çizelgeleme: Kemoterapi Randevu Çizelgelemesine bir Uygulama GÖÇGÜN Y.

Yoneylem Arastirmasi ve Endustri Muhendisligi (YAEM), İstanbul, Turkey, 5 - 07 July 2017

VII. Simulation-based Approximate Dynamic Programming for Stochastic Resource-constrained Project Scheduling

GÖÇGÜN Y., Parizi M., Ghate A.

INFORMS Annual Meeting, Philadelphia, United States Of America, 1 - 04 November 2015

VIII. Dinamik, Stokastik ve Kaynak Kısıtlı Proje Çizelgeleme Problemleri için Yaklaşık Dinamik Programlama

GÖÇGÜN Y., Parizi M., Ghate A.

Yoneylem Arastirmasi ve Endustri Muhendisligi (YAEM), Ankara, Turkey, 9 - 11 September 2015

IX. Cost-effectiveness Analysis of Breast Cancer Screening Policies for The Canadian Population

GÖÇGÜN Y., Banjevic D., Tahgipour S., Montgomery N., Miller A., Harvey B., Jardine A.

INFORMS Annual Meeting, Minneapolis, United States Of America, 8 - 10 October 2013

X. Dynamic Patient Scheduling for Chemotherapy

GÖÇGÜN Y., Puterman M.

INFORMS Annual Meeting, Phoenix, United States Of America, 14 - 17 October 2012

XI. Approximate Dynamic Programming in Optimal Search with Application to Minimally Invasive Surgery

GÖÇGÜN Y., Shechter S.

INFORMS Annual Meeting, Charlottetown, Canada, 13 - 16 November 2011

XII. Hybrid Lagrangian Relaxation-Column Generation for Advanced Scheduling in Healthcare GÖÇGÜN Y., Ghate A.

INFORMS Annual Meeting, Austin, United States Of America, 7 November - 07 December 2010

XIII. A Lagrangian Approach to Dynamic Resource Allocation

GÖÇGÜN Y., Ghate A.

Proceedings of the 2010 Winter Simulation Conference, Baltimore, United States Of America, 05 December 2010

XIV. Approximate Dynamic Programming for Advanced Scheduling in Healthcare

GÖÇGÜN Y., Ghate A.

Canadian Mathematical Society, Vancouver, Canada, 04 December 2010

XV. Weakly Coupled MDP Models for Allocation Scheduling in Healthcare

GÖÇGÜN Y., Ghate A.

INFORMS Annual Meeting, Austin, United States Of America, 07 November 2010

XVI. Approximate Dynamic Programming for Dynamic Stochastic Project Scheduling GÖÇGÜN Y., Ghate A.

INFORMS Annual Meeting, San Diego, United States Of America, 11 - 14 October 2009

XVII. Multiclass Scheduling Problems with Applications to Healthcare

GÖÇGÜN Y., Ghate A.

IIE Annual Conference, Miami, United States Of America, 30 May 2009

XVIII. Dynamic Programming Approach to Multiclass Scheduling Problems

GÖÇGÜN Y., Ghate A.

INFORMS Annual Meeting, Washington, Kiribati, 12 October 2008