

Asst. Prof. Emine Yaylalı

Personal Information

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International Researcher IDs

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Education Information

Doctorate, North Carolina State University, Operations Research, United States Of America 2010 - 2012

Postgraduate, North Carolina State University, Operations Research, United States Of America 2007 - 2010

Undergraduate, Bogazici University, Faculty Of Engineering, Department Of Industrial Engineering, Turkey 2002 - 2007

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Stochastic Multi-agent Models for Alerting Decisions in Public Health, North Carolina State University, Operations Research, 2012

Postgraduate, A Two-Agent Stochastic Alert Threshold Model for Identifying a Potential Disease Outbreak: A Case Study for H1N1, North Carolina State University, Operations Research, 2010

Research Areas

Health Sciences, Medicine, Fundamental Medical Sciences, Biostatistics and Medical Informatics, Internal Medicine Sciences, Infectious Diseases and Clinical Microbiology, Technical Sciences, Industrial Engineering , Stochastic Modeling, Stochastic Processes, Optimization Theory and Methods, Integer and Mixed Integer Programming, Simulation

Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, İşletme Fakültesi, Endüstri Mühendisliği Bölümü, 2018 - Continues

Assistant Professor, Istanbul Technical University, İşletme Fakültesi, Endüstri Mühendisliği Bölümü, 2016 - 2018

Research Assistant, North Carolina State University, Engineering Faculty, Department Of Industrial Engineering, 2007 - 2012

Courses

Introduction to System Analysis, Undergraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Cost-effectiveness analysis of fissure sealants for caries prevention in children**
Egil E., Yaylali E.
JOURNAL OF PUBLIC HEALTH DENTISTRY, vol.83, no.1, pp.43-50, 2023 (SCI-Expanded)
- II. **Editorial: Interplay between schools and society in the context of infectious disease spread**
GÜÇLÜ H., Yaylali E.
FRONTIERS IN PUBLIC HEALTH, vol.10, 2022 (SCI-Expanded)
- III. **Productivity losses under various second-line recurrent or metastatic cervical cancer treatment scenarios in the United States.**
Ting J., Ayer T., Dalgic O. O., Erdogan M., Yaylali E., Chhatwal J.
JOURNAL OF CLINICAL ONCOLOGY, vol.40, no.16, 2022 (SCI-Expanded)
- IV. **Evaluation of Non-Pharmaceutical Interventions for Reducing Contact Rate in COVID-19 Pandemic: R-0 Estimation and Modeling for Istanbul**
MARAL I., Yaylali E., GÜÇLÜ H., İKİŞİK H., Guner A. E.
MIKROBİYOLOJİ BÜLTENİ, vol.55, no.3, pp.389-405, 2021 (SCI-Expanded)
- V. **Impact of Improved HIV Care and Treatment on PrEP Effectiveness in the United States, 2016-2020.**
KHURANA N., Yaylali E., FARNHAM P., HICKS K., ALLAIRE B., JACOBSON E., SANSOM S.
Journal of acquired immune deficiency syndromes (1999), vol.78, pp.399-405, 2018 (SCI-Expanded)
- VI. **Optimal allocation of HIV prevention funds for state health departments.**
Yaylali E., FARNHAM P., COHEN S., PURCELL D., HAUCK H., SANSOM S.
PloS one, vol.13, 2018 (SCI-Expanded)
- VII. **From Theory to Practice: Implementation of a Resource Allocation Model in Health Departments**
Yaylali E., FARNHAM P. G., SCHNEIDER K. L., LANDERS S. J., KOUZOUIAN O., LASRY A., PURCELL D. W., GREEN T. A., SANSOM S. L.
JOURNAL OF PUBLIC HEALTH MANAGEMENT AND PRACTICE, vol.22, no.6, pp.567-575, 2016 (SSCI)
- VIII. **Cost-Effectiveness of Frequent HIV Testing of High-Risk Populations in the United States**
Hutchinson A. B., FARNHAM P. G., SANSOM S. L., Yaylali E., MERMIN J. H.
JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES, vol.71, no.3, pp.323-330, 2016 (SCI-Expanded)
- IX. **Systems Engineering Methods for Enhancing the Value Stream in Public Health Preparedness: The Role of Markov Models, Simulation, and Optimization**
Yaylali E., Ivy J. S., Taheri J.
PUBLIC HEALTH REPORTS, vol.129, pp.145-153, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Modeling the effect of public health resources and alerting on the dynamics of pertussis spread**
Yaylali E., Ivy J. S., Uzsoy R., SAMOFF E., Meyer A. M., MAILLARD J. M.
HEALTH SYSTEMS, vol.5, no.2, pp.81-97, 2016 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Taxonomy of Mathematical Modeling Studies for Hepatitis C Among Injection Drug Users**
Yaylali E., Ucler S.
Global Joint Conference on Industrial Engineering and Its Application Areas (GJCIE), ELECTR NETWORK, 14 - 15

August 2020, pp.477-494

- II. **Türkiye’de HIV/AIDS İnsidans ve Prevelansının Matematiksel Modelleme ile Tahmini, 2005-2030**
YAYLALI E., ERDOĞAN Z. M.
HIV/AIDS Kongresi 2018, Antalya, Turkey, 15 - 18 November 2018
- III. **Cost-effectiveness of Hepatitis C Treatment among persons who inject drugs in Turkey**
YAYLALI E., BAŞLAR E., Üser Ü.
2018 IISE Annual Conference, 19 - 22 May 2018
- IV. **Resource allocation models for HIV prevention**
YAYLALI E.
Northwestern University Prevention Science Methodology Group Grand Rounds, 24 October 2017
- V. **Impact of Enhanced HIV Care and Treatment and Delivering PrEP in the United States**
Khurana N., YAYLALI E., Farnham P., Hicks K., Allaire B., Jacobson E., Sansom S.
2017 INFORMS ANNUAL MEETING, 22 - 25 October 2017
- VI. **Eliciting Lipid Management Guidelines’ Valuation of Future Lifeby Inverse Optimization**
YAYLALI E., Kurt M., Özaltın O.
INFORMS Healthcare 2017, 26 - 28 July 2017
- VII. **COST-EFFECTIVENESS OF HIV SCREENING OF HETEROSEXUALS IN THE UNITED STATES**
Hutchinson A., Hicks K., YAYLALI E., Tucker E., Jacobson E., Sansom S.
Conference on Retroviruses and Opportunistic Infections (CROI), 13 - 16 February 2017
- VIII. **Using The HIV Optimization And Prevention Economics HOPE Model For Evaluating HIV Interventions in The United States**
YAYLALI E.
INFORMS Annual Meeting, Nashville, TN, United States Of America, 13 - 16 November 2016
- IX. **Effects Of Reaching National HIV AIDS Strategy Viral Load Suppression Goal On HIV Incidence By Race And Ethnicity in The United States**
Jacobson E., Hicks K., YAYLALI E., Chen Y. H., Stephanie S.
38th Annual Meeting of Society for Medical Decision Making, Vancouver, Canada, 23 - 26 October 2016
- X. **Impact of improving HIV care and treatment and initiating PrEP in the U S 2015 2020**
YAYLALI E., Farnham P., Allaire B., Wagner D., Hicks K., Honeycutt A., Sansom S.
Conference on Retroviruses and Opportunistic Infections (CROI) 2016, Boston MA, United States Of America, 22 - 25 February 2016
- XI. **Calibrating Dynamic Compartmental Models of Human Immunodeficiency Virus in the United States**
Chen Y. H., YAYLALI E., Hicks K., Tucker E., Farnham P., Sansom S.
37th Annual Meeting of Society for Medical Decision Making, St. Louis MI, United States Of America, 18 October 2015 - 21 October 2016

Metrics

Publication: 24

Citation (WoS): 74

Citation (Scopus): 62

H-Index (WoS): 4

H-Index (Scopus): 3

Non Academic Experience

State Agency, Centers For Disease Control And Prevention