

## Doç. Dr. BARBAROS YET

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Yoksis Araştırmacı ID: 224336

### Eğitim Bilgileri

Doktora, University of London-Queen Mary and Westfield College, School of Electronic Engineering and Computer Science, Computer Science, Birleşik Krallık 2010 - 2014

Yüksek Lisans, Chalmers Tekniska Högskola (Chalmers University of Technology), Technology Management & Economics, Quality and Operations Management, İsveç 2008 - 2010

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Türkiye 2004 - 2008

### Araştırma Alanları

Bilgisayar Bilimleri, Benzetim ve Modelleme, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma, Belirsizlik Yönetimi , Karar Destek Sistemleri

### Akademik Unvanlar / Görevler

Doç. Dr., Orta Doğu Teknik Üniversitesi, Enformatik Enstitüsü, Bilişsel Bilimler Anabilim Dalı, 2022 - Devam Ediyor

Dr. Öğr. Üyesi, Orta Doğu Teknik Üniversitesi, Enformatik Enstitüsü, Bilişsel Bilimler Anabilim Dalı, 2020 - 2022

Dr. Öğr. Üyesi, Hacettepe Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2015 - 2020

### Yönetilen Tezler

YET B., How does resource scarcity perception affect economic decision-making? An investigation of the cognitive and behavioral consequences of resource scarcity perception, Yüksek Lisans, D.DEMİRCİOĞLU(Öğrenci), 2022

YET B., Implementing shared decision-making for returning to play sports after an injury using the Analytic Hierarchy Process (AHP) in a web application, Yüksek Lisans, N.YILMAZ(Öğrenci), 2022

YET B., Shared decision making: A serious game based on OSCE for clinicians, Yüksek Lisans, A.SÜLÜN(Öğrenci), 2022

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

1. Statistical modelling of determinants of child stunting using secondary data and Bayesian networks: a UKRI Global Challenges Research Fund (GCRF) Action Against Stunting Hub protocol paper

Rosenstock T. S., YET B.

BMJ PAEDIATRICS OPEN, cilt.8, sa.SUPPL\_1, 2024 (SCI-Expanded)

- II. **The Role of Honor Concerns in Disclosing (vs. Hiding) COVID-19 Diagnosis: Insights from Türkiye**  
Ceylan-Batur S., Dođulu C., Akbař G., YET B., Uskul A. K.  
Sex Roles, cilt.89, sa.7-8, ss.409-424, 2023 (SSCI)
- III. **A Multicriteria Method to Form Optional Preventive Maintenance Plans: A Case Study of a Large Fleet of Vehicles**  
Guner G. G., Sakar C. T., YET B.  
IEEE Transactions on Engineering Management, cilt.70, sa.6, ss.2153-2164, 2023 (SCI-Expanded)
- IV. **Celecoxib Nanoformulations with Enhanced Solubility, Dissolution Rate, and Oral Bioavailability: Experimental Approaches over In Vitro/In Vivo Evaluation**  
Arslan A., YET B., NEMUTLU E., AKDAĐ ÇAYLI Y., EROĐLU H., ÖNER L.  
Pharmaceutics, cilt.15, sa.2, 2023 (SCI-Expanded)
- V. **Reliability prediction for aircraft fleet operators: A Bayesian network model that combines supplier estimates, maintenance data and expert judgement**  
Kucuker F. U., Yet B.  
JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY, cilt.74, sa.10, ss.2187-2198, 2023 (SCI-Expanded)
- VI. **Reducing the question burden of patient reported outcome measures using Bayesian networks**  
Yuceturk H., Gulle H., TUNCER řAKAR C., Joyner C., Marsh W., ÜNAL E., Morrissey D., YET B.  
JOURNAL OF BIOMEDICAL INFORMATICS, cilt.135, 2022 (SCI-Expanded)
- VII. **Early Identification of Trauma-induced Coagulopathy: Development and Validation of a Multivariable Risk Prediction Model.**  
Perkins Z., Yet B., Marsden M., Glasgow S., Marsh W., Davenport R., Brohi K., Tai N.  
Annals of surgery, cilt.274, 2021 (SCI-Expanded)
- VIII. **Effectiveness of intubation devices in patients with cervical spine immobilisation: a systematic review and network meta-analysis**  
Singleton B. N., Morris F. K., YET B., Buggy D. J., Perkins Z. B.  
BRITISH JOURNAL OF ANAESTHESIA, cilt.126, sa.5, ss.1055-1066, 2021 (SCI-Expanded)
- IX. **Analyzing the Simonshaven Case Using Bayesian Networks**  
Fenton N., Neil M., Yet B., Lagnado D.  
TOPICS IN COGNITIVE SCIENCE, cilt.12, sa.4, ss.1092-1114, 2020 (SSCI)
- X. **Estimating criteria weight distributions in multiple criteria decision making: a Bayesian approach**  
Yet B., Sakar C. T.  
ANNALS OF OPERATIONS RESEARCH, cilt.293, sa.2, ss.495-519, 2020 (SCI-Expanded)
- XI. **Predicting the Outcome of Limb Revascularization in Patients With Lower-extremity Arterial Trauma: Development and External Validation of a Supervised Machine-learning Algorithm to Support Surgical Decisions.**  
Perkins Z. B., Yet B., Sharrock A., Rickard R., Marsh W., Rasmussen T. E., Tai N. R. M.  
Annals of surgery, cilt.272, sa.4, ss.564-572, 2020 (SCI-Expanded)
- XII. **Integrating Risk into Project Control Using Bayesian Networks**  
PİřİRİR E., Su Y., YET B.  
INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING, cilt.19, sa.5, ss.1327-1352, 2020 (SCI-Expanded)
- XIII. **Evidence-based investment selection: Prioritizing agricultural development investments under climatic and socio-political risk using Bayesian networks**  
YET B., Lamanna C., Shepherd K. D., Rosenstock T. S.  
PLOS ONE, cilt.15, sa.6, 2020 (SCI-Expanded)
- XIV. **Building Bayesian networks based on DEMATEL for multiple criteria decision problems: A supplier selection case study**  
Kaya R., YET B.  
EXPERT SYSTEMS WITH APPLICATIONS, cilt.134, ss.234-248, 2019 (SCI-Expanded)

- XV. **Cyber-physical-based PAT (CPbPAT) framework for Pharma 4.0**  
VATANKHAH BARENJI R., Akdag Y., YET B., ÖNER L.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, cilt.567, 2019 (SCI-Expanded)
- XVI. **Long-term, patient-centered outcomes of lower-extremity vascular trauma**  
Perkins Z. B., YET B., Glasgow S., Marsh D. W. R., Tai N. R. M., Rasmussen T. E.  
JOURNAL OF TRAUMA AND ACUTE CARE SURGERY, cilt.85, 2018 (SCI-Expanded)
- XVII. **An improved method for solving Hybrid Influence Diagrams**  
YET B., Neil M., Fenton N., Constantinou A., Dementiev E.  
INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, cilt.95, ss.93-112, 2018 (SCI-Expanded)
- XVIII. **Expected Value of Partial Perfect Information in Hybrid Models Using Dynamic Discretization**  
YET B., Constantinou A., Fenton N., Neil M.  
IEEE ACCESS, cilt.6, ss.7802-7817, 2018 (SCI-Expanded)
- XIX. **The role of splenic angioembolization as an adjunct to nonoperative management of blunt splenic injuries: A systematic review and meta-analysis**  
Crichton J. C. I., Naidoo K., YET B., Brundage S. I., Perkins Z.  
JOURNAL OF TRAUMA AND ACUTE CARE SURGERY, cilt.83, sa.5, ss.934-943, 2017 (SCI-Expanded)
- XX. **Clinical evidence framework for Bayesian networks**  
YET B., Perkins Z. B., Tai N. R. M., Marsh D. W. R.  
KNOWLEDGE AND INFORMATION SYSTEMS, cilt.50, sa.1, ss.117-143, 2017 (SCI-Expanded)
- XXI. **How to model mutually exclusive events based on independent causal pathways in Bayesian network models**  
Fenton N., Neil M., Lagnado D., Marsh W., YET B., Constantinou A.  
KNOWLEDGE-BASED SYSTEMS, cilt.113, ss.39-50, 2016 (SCI-Expanded)
- XXII. **A Bayesian network framework for project cost, benefit and risk analysis with an agricultural development case study**  
YET B., Constantinou A., Fenton N., Neil M., Luedeling E., Shepherd K.  
EXPERT SYSTEMS WITH APPLICATIONS, cilt.60, ss.141-155, 2016 (SCI-Expanded)
- XXIII. **Value of information analysis for interventional and counterfactual Bayesian networks in forensic medical sciences**  
Constantinou A. C., YET B., Fenton N., Neil M., Marsh W.  
ARTIFICIAL INTELLIGENCE IN MEDICINE, cilt.66, ss.41-52, 2016 (SCI-Expanded)
- XXIV. **Meta-analysis of prognostic factors for amputation following surgical repair of lower extremity vascular trauma**  
Perkins Z. B., YET B., Glasgow S., Cole E., Marsh W., Brohi K., Rasmussen T. E., Tai N. R. M.  
BRITISH JOURNAL OF SURGERY, cilt.102, sa.5, ss.436-450, 2015 (SCI-Expanded)
- XXV. **Combining data and meta-analysis to build Bayesian networks for clinical decision support**  
YET B., Perkins Z. B., Rasmussen T. E., Tai N. R. M., Marsh D. W. R.  
JOURNAL OF BIOMEDICAL INFORMATICS, cilt.52, ss.373-385, 2014 (SCI-Expanded)
- XXVI. **Compatible and incompatible abstractions in Bayesian networks**  
YET B., Marsh D. W. R.  
KNOWLEDGE-BASED SYSTEMS, cilt.62, ss.84-97, 2014 (SCI-Expanded)
- XXVII. **Not just data: A method for improving prediction with knowledge**  
YET B., Perkins Z., Fenton N., Tai N., Marsh W.  
JOURNAL OF BIOMEDICAL INFORMATICS, cilt.48, ss.28-37, 2014 (SCI-Expanded)
- XXVIII. **Decision support system for Warfarin therapy management using Bayesian networks**  
YET B., Bastani K., Raharjo H., Lifvergren S., Marsh W., Bergman B.  
DECISION SUPPORT SYSTEMS, cilt.55, sa.2, ss.488-498, 2013 (SCI-Expanded)

- I. **Assessing Serious Spinal Pathology Using Bayesian Network Decision Support: Development and Validation Study**  
Hill A., Joyner C. H., Keith-Jopp C., Yet B., Tuncer Sakar C., Marsh W., Morrissey D.  
JMIR FORMATIVE RESEARCH, cilt.7, ss.44187, 2023 (ESCI)
- II. **A Bayesian Network Decision Support Tool for Low Back Pain Using a RAND Appropriateness Procedure: Proposal and Internal Pilot Study**  
Hill A., Joyner C. H., Keith-Jopp C., YET B., TUNCER ŞAKAR C., Marsh W., Morrissey D.  
JMIR RESEARCH PROTOCOLS, cilt.10, sa.1, 2021 (ESCI)
- III. **Football Analytics using Bayesian Networks: the FutBA Model**  
Karabıyık M., YET B.  
Pamukkale University Journal of Engineering Sciences, cilt.25, sa.1, ss.121-131, 2019 (Hakemli Dergi)
- IV. **Çok Kriterli Karar Verme Problemlerinde Fayda Fonksiyonu Ağırlıklarının Tahmin Edilmesi için Matematiksel Model Temelli bir Yöntem**  
TUNCER ŞAKAR C., YET B.  
Uludağ University Journal of The Faculty of Engineering, cilt.23, sa.1, ss.379-402, 2018 (Hakemli Dergi)
- V. **COTTAPP: An Online University Timetable Application based on a Goal Programming Model**  
Dursun T., Sü Y., Coşgun R., Durak A. S., YET B.  
International Journal of Intelligent Systems and Applications in Engineering, cilt.3, sa.5, ss.117-123, 2017 (Hakemli Dergi)
- VI. **Using operational data for decision making a feasibility study in rail maintenance**  
Marsh W., Nur K., YET B., Majumdar A.  
Safety and Reliability, cilt.36, sa.1, ss.35-47, 2016 (Hakemli Dergi)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Decision Support for Project Management by using Diagnostic Inference and Explaining-Away in Bayesian Networks**  
YET B., PİŞİRİR E.  
6th International Conference on Decision Support System Technology (ICDSST 2020), Zaragoza, İspanya, 27 - 29 Mayıs 2020, ss.131-136
- II. **Sınırlı Sayıda Veri ile Güvenilirlik Tahmini: SARP Modeli**  
KÜÇÜKER F. U., YET B.  
Sekizinci Ulusal Savunma Uygulamaları Modelleme ve Simulasyon Konferansı - USMOS 2019, Ankara, Türkiye, 19 - 20 Kasım 2019, ss.327-338
- III. **Improved Software Reliability Prediction by Using Model Stacking and Averaging**  
Karaomer R. B., YET B., CHOUSEİNOGLOU O.  
45th Euromicro Conference on Software Engineering and Advanced Applications (SEAA) / 22nd Euromicro Conference on Digital System Design (DSD), Kallithea, Yunanistan, 28 - 30 Ağustos 2019, ss.186-192
- IV. **Probabilistic Earned Value Management Using Bayesian Networks**  
YET B., SÜ Y.  
INFORMS 2018, Phoenix, Amerika Birleşik Devletleri, 2 - 06 Kasım 2018, ss.488
- V. **A Probabilistic Approach for Indirect Elicitation of the Preferences of a Decision Maker**  
YET B., TUNCER ŞAKAR C.  
BALCOR 2018 - XIII Balkan Conference on Operational Research, Belgrade, Sırbistan Ve Karadağ, 25 - 28 Mayıs 2018, ss.39
- VI. **Towards an Evidence-Based Decision Support Tool for Management of Musculoskeletal Conditions**  
YET B., Marsh W., Morrissey D.  
Special Topic Conference of the European-Federation-for-Medical-Informatics (EFMI STC), Zagreb, Hırvatistan, 15 - 16 Ekim 2018, cilt.255, ss.175-179
- VII. **A Framework to Present Bayesian Networks to Domain Experts and Potential Users**

YET B.

Probability and Statistics in Forensic Science - Isaac Newton Institute for Mathematical Sciences, Cambridge, Kanada, 18 Temmuz - 21 Aralık 2016

VIII. **Tek Değişkenli Meta analiz Sonuçları ve Çok Değişkenli Veriyi Birlikte Kullanarak Bayes Ağı Modelleri Öğrenme**

YET B., Perkins Z., Tai N., Marsh W.

36. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi (YAEM-2016), İzmir, Türkiye, 13 - 15 Temmuz 2016, ss.56-57

IX. **NEDENSEL BAYES AĞLARI İLE CERRAHİ KARAR DESTEK**

YET B., Perkins Z., Tai N., Marsh W.

35. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi (YAEM-2015), Ankara, Türkiye, 9 - 11 Eylül 2015

X. **Project Cost Benefit and Risk Analysis using Bayesian Networks**

YET B., Constantinou A., Fenton N., Neil M., Luedeling E., Shepherd K.

31st Conference on Uncertainty in Artificial Intelligence (UAI 2015) - Bayesian Applications Workshop, Amsterdam, Hollanda, 12 - 16 Temmuz 2015

XI. **Explicit Evidence for Prognostic Bayesian Network Models**

YET B., Perkins Z., Tai N., Marsh W.

25th European Medical Informatics Conference (MIE), İstanbul, Türkiye, 31 Ağustos - 03 Eylül 2014, cilt.205, ss.53-57

XII. **Predicting Latent Variables with Knowledge and Data A Case Study in Trauma Care**

YET B., Marsh W., Perkins Z., Tai N., Fenton N.

29th Conference on Uncertainty in Artificial Intelligence (UAI 2013 - Bayesian Applications Workshop, BELLEVUE, WASHINGTON, Amerika Birleşik Devletleri, 15 Temmuz 2013, cilt.1024, ss.49

XIII. **Towards a Method for Building Causal Bayesian Networks for Prognostic Decision Support**

YET B., Perkins Z., Marsh W., Fenton N.

AIME'11 Workshop on Probabilistic Problem Solving in Biomedicine (ProBioMed-11), BLED, Slovenya, 02 Temmuz 2011, ss.107-120

## Metrikler

Yayın: 63

Atf (WoS): 499

Atf (Scopus): 607

H-İndeks (WoS): 12

H-İndeks (Scopus): 14