

## **Asst. Prof. BARBAROS YET**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: L-8355-2018

ScopusID: 55413450700

Yoksis Researcher ID: 224336

### **Education Information**

Doctorate, University of London-Queen Mary and Westfield College, School Of Electronic Engineering And Computer Science, Computer Science, United Kingdom 2010 - 2014

Postgraduate, Chalmers Tekniska Högskola (Chalmers University of Technology), Technology Management And Economics, Quality And Operations Management, Sweden 2008 - 2010

Undergraduate, Middle East Technical University, Faculty Of Engineering, Endüstri Mühendisliği, Turkey 2004 - 2008

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Doctorate, Bayesian networks for evidence based clinical decision support, University Of London-Queen Mary And Westfield College, School Of Electronic Engineering And Computer Science, 2013

Postgraduate, Decision support system for warfarin therapy using bayesian networks, Chalmers Tekniska Högskola (Chalmers University Of Technology), Quality And Operations Management, 2013

### **Research Areas**

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Uncertainty Management, Industrial Engineering , Stochastic Modeling, Decision Theory, Decision Support Systems, Engineering and Technology

### **Academic Titles / Tasks**

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2018 - Continues

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2014 - 2018

Research Assistant, University of London-Queen Mary and Westfield College, School Of Electronic Engineering And Computer Science, Computer Science, 2013 - 2014

## Courses

Decision Analysis EMÜ424, Undergraduate, 2017 - 2018  
Olasılıksal Grafiksel Modeller - EMÜ639, Postgraduate, 2017 - 2018  
PROJE PLANLAMA VE KONTROL - MÜY613, Postgraduate, 2017 - 2018, 2016 - 2017  
Probabilistic Risk Assessment and Decision Support - EMÜ437, Undergraduate, 2016 - 2017  
Güvenilirlik Mühendisliği - EMÜ634 , Postgraduate, 2016 - 2017  
PROJECT MANAGEMENT - EMÜ464, Undergraduate, 2016 - 2017  
RELIABILITY ANALYSIS - EMÜ434, Undergraduate, 2016 - 2017  
TAHMİN YÖNTEMLERİ - MÜY658, Postgraduate, 2016 - 2017

## Advising Theses

YET B., Integration of Bayesian networks with dematel for causal risk analysis: A supplier selection case study in automotive industry, Postgraduate, R.KAYA(Student), 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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, vol.74, no.10, pp.2187-2198, 2023 (SCI-Expanded)
- II. **Analyzing the Simonshaven Case Using Bayesian Networks**  
Fenton N., Neil M., YET B., Lagnado D.  
TOPICS IN COGNITIVE SCIENCE, vol.12, no.4, pp.1092-1114, 2020 (SSCI)
- III. **Estimating criteria weight distributions in multiple criteria decision making: a Bayesian approach**  
YET B., TUNCER ŞAKAR C.  
ANNALS OF OPERATIONS RESEARCH, vol.293, no.2, pp.495-519, 2020 (SCI-Expanded)
- IV. **Integrating Risk into Project Control Using Bayesian Networks**  
PİŞİRİR E., Su Y., YET B.  
INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING, vol.19, no.5, pp.1327-1352, 2020 (SCI-Expanded)
- V. **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, vol.15, no.6, 2020 (SCI-Expanded)
- VI. **Building Bayesian networks based on DEMATEL for multiple criteria decision problems: A supplier selection case study**  
Kaya R., YET B.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.134, pp.234-248, 2019 (SCI-Expanded)
- VII. **Cyber-physical-based PAT (CPbPAT) framework for Pharma 4.0**  
Barenji R. V., Akdag Y., YET B., ÖNER L.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.567, 2019 (SCI-Expanded)
- VIII. **An improved method for solving Hybrid Influence Diagrams**  
YET B., Neil M., Fenton N., Constantinou A., Dementiev E.  
INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, vol.95, pp.93-112, 2018 (SCI-Expanded)
- IX. **Expected Value of Partial Perfect Information in Hybrid Models Using Dynamic Discretization**  
YET B., Constantinou A., Fenton N., Neil M.  
IEEE ACCESS, vol.6, pp.7802-7817, 2018 (SCI-Expanded)
- X. **Clinical evidence framework for Bayesian networks**  
YET B., Perkins Z. B., Tai N. R. M., Marsh D. W. R.

KNOWLEDGE AND INFORMATION SYSTEMS, vol.50, no.1, pp.117-143, 2017 (SCI-Expanded)

- XI. **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, vol.113, pp.39-50, 2016 (SCI-Expanded)
- XII. **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, vol.60, pp.141-155, 2016 (SCI-Expanded)
- XIII. **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, vol.102, no.5, pp.436-450, 2015 (SCI-Expanded)
- XIV. **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, vol.52, pp.373-385, 2014 (SCI-Expanded)
- XV. **Compatible and incompatible abstractions in Bayesian networks**  
Yet B., Marsh D. W. R.  
KNOWLEDGE-BASED SYSTEMS, vol.62, pp.84-97, 2014 (SCI-Expanded)
- XVI. **Not just data: A method for improving prediction with knowledge**  
Yet B., Perkins Z., Fenton N., TAI N., Marsh W.  
JOURNAL OF BIOMEDICAL INFORMATICS, vol.48, pp.28-37, 2014 (SCI-Expanded)
- XVII. **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, vol.55, no.2, pp.488-498, 2013 (SCI-Expanded)

## Articles Published in Other Journals

- I. **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, vol.23, no.1, pp.379-402, 2018 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Optimization of blank poly(lactic-coglycolic acid) nanoparticle formulations using Artificial Neural Networks**  
ÇOPUR T., PEHLİVAN S., YET B., ÖNER L.  
8th BBBB International Conference on Pharmaceutical Sciences, 14 - 16 October 2019
- II. **Application of Central Composite Design in the optimization of blank poly(lactic-coglycolic acid) nanoparticles**  
ÇOPUR T., PEHLİVAN S., YET B., ÖNER L.  
8th BBBB International Conference on Pharmaceutical Sciences, 14 - 16 October 2019
- III. **Multicriteria Decision Support Approaches for Physiotherapy Under Uncertainty**  
CEBESoy M., TUNCER ŞAKAR C., YET B.  
30th European Conference on Operational Research (EURO 2019), Dublin, Ireland, 23 - 26 June 2019, pp.302
- IV. **PROMETHEE Approaches for Medical Decision Support under Uncertainty**  
CEBESoy M., TUNCER ŞAKAR C., YET B.  
25th International Conference on Multiple Criteria Decision Making (MCDM 2019), İstanbul, Turkey, 16 - 21 June

2019, pp.159-160

**V. Otomotiv Endüstrisinde Çok Kriterli Güvenilirlik Yaklaşımları**

GÜNER G. G., TUNCER ŞAKAR C., YET B.

39. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi (YA/EM 2019), Ankara, Turkey, 12 - 14 June 2019, pp.89

**VI. Sıralı Döğümler Yöntemi ile Bayes Ağı Temelli Fizyoterapi Karar Destek Aracı Öğrenilmesi**

GÜNER G. G., TUNCER ŞAKAR C., YET B.

39. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi(YA/EM 2019), Ankara, Turkey, 12 - 14 June 2019, pp.93

**VII. Belirsizlik Altında Medikal Karar Destek İçin Çok Kriterli Karar Verme Yaklaşımları**

GÜNER G. G., TUNCER ŞAKAR C., YET B.

39. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi (YA/EM 2019), Ankara, Turkey, 12 - 14 June 2019, pp.99

**VIII. 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, Greece, 28 - 30 August 2019, pp.186-192

**IX. 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, Serbia, 25 - 28 May 2018, pp.39

**X. Towards an Evidence-Based Decision Support Tool for Management of Musculoskeletal Conditions**

YET B., Marsh W., Morrissey D.

Special Topic Conference of the European-Fedeeration-for-Medical-Informatics (EFMI STC), Zagreb, Croatia, 15 - 16 October 2018, vol.255, pp.175-179

**XI. Estimating the Weights of a Utility Function using a Bayesian Approach**

TUNCER ŞAKAR C., YET B.

The 24th International Conference on Multiple Criteria Decision Making (MCDM 2017), Ottawa, Canada, 10 - 14 July 2017, pp.117

## Supported Projects

YET B., Project Supported by Higher Education Institutions, Bir tarımsal kalkınma vaka çalışması ile proje maliyet, fayda ve risk analizi için bir Bayes Ağı çerçevesi, 2016 - 2017

YET B., Project Supported by Higher Education Institutions, Tek Değişkenli Metaanaliz Sonuçları ve Çok Değişkenli Veriyi Birlikte Kullanarak Bayes Ağı Modelleri Öğrenme, 2016 - 2016

YET B., Project Supported by Higher Education Institutions, Endüstri Mühendisliği Karar Destek Modellerinin Çevrimiçi Uygulama Olarak Yayınlanması, 2016 - 2016

YET B., Project Supported by Higher Education Institutions, Bayes Ağları ile Proje Maliyet Fayda ve Risk Analizi, 2015 - 2016

## Metrics

Publication: 29

Citation (WoS): 178

Citation (Scopus): 143

H-Index (WoS): 8

H-Index (Scopus): 6