

Assoc. Prof. BARBAROS YET

Personal Information

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Education Information

Doctorate, University of London-Queen Mary and Westfield College, School of Electronic Engineering and Computer Science, Computer Science, England 2010 - 2014

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

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 2004 - 2008

Research Areas

Computer Sciences, Simulation and Modelling, Artificial Intelligence, Computer Learning and Pattern Recognition, Uncertainty Management, Decision Support Systems

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Graduate School of Informatics, Cognitive Science, 2020 - Continues

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2015 - 2020

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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, vol.126, no.5, pp.1055-1066, 2021 (Journal Indexed in SCI)
- II. **Estimating criteria weight distributions in multiple criteria decision making: a Bayesian approach**
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- III. **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, vol.272, no.4, pp.564-572, 2020 (Journal Indexed in SCI)
- IV. **Analyzing the Simonshaven Case Using Bayesian Networks**
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TOPICS IN COGNITIVE SCIENCE, vol.12, no.4, pp.1092-1114, 2020 (Journal Indexed in SSCI)
- V. **Integrating Risk into Project Control Using Bayesian Networks**
PIŞİRİR E., Su Y., YET B.

INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING, vol.19, no.5, pp.1327-1352, 2020 (Journal Indexed in SCI)

- VI. **Evidence-based investment selection: Prioritizing agricultural development investments under climatic and socio-political risk using Bayesian networks**
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- VII. **Early Identification of Trauma-induced Coagulopathy: Development and Validation of a Multivariable Risk Prediction Model.**
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- VIII. **Building Bayesian networks based on DEMATEL for multiple criteria decision problems: A supplier selection case study**
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EXPERT SYSTEMS WITH APPLICATIONS, vol.134, pp.234-248, 2019 (Journal Indexed in SCI)
- IX. **Cyber-physical-based PAT (CPbPAT) framework for Pharma 4.0**
VATANKHAH BARENJI R., Akdag Y., YET B., ÖNER L.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.567, 2019 (Journal Indexed in SCI)
- X. **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, vol.85, 2018 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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, vol.83, no.5, pp.934-943, 2017 (Journal Indexed in SCI)
- XIV. **Clinical evidence framework for Bayesian networks**
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- XV. **How to model mutually exclusive events based on independent causal pathways in Bayesian network models**
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- XVI. **A Bayesian network framework for project cost, benefit and risk analysis with an agricultural development case study**
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- XVII. **Value of information analysis for interventional and counterfactual Bayesian networks in forensic medical sciences**
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- XVIII. **Meta-analysis of prognostic factors for amputation following surgical repair of lower extremity vascular trauma**
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BRITISH JOURNAL OF SURGERY, vol.102, no.5, pp.436-450, 2015 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **Compatible and incompatible abstractions in Bayesian networks**
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- XXI. **Not just data: A method for improving prediction with knowledge**
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JOURNAL OF BIOMEDICAL INFORMATICS, vol.48, pp.28-37, 2014 (Journal Indexed in SCI)
- XXII. **Decision support system for Warfarin therapy management using Bayesian networks**
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DECISION SUPPORT SYSTEMS, vol.55, no.2, pp.488-498, 2013 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Football Analytics using Bayesian Networks: the FutBA Model**
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Pamukkale University Journal of Engineering Sciences, vol.25, no.1, pp.121-131, 2019 (Other Refereed National Journals)
- II. **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 (Other Refereed National Journals)
- III. **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, vol.3, no.5, pp.117-123, 2017 (Other Refereed National Journals)
- IV. **Using operational data for decision making a feasibility study in rail maintenance**
Marsh W., Nur K., YET B., Majumdar A.
Safety and Reliability, vol.36, no.1, pp.35-47, 2016 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Decision Support for Project Management by using Diagnostic Inference and Explaining-Away in Bayesian Networks**
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6th International Conference on Decision Support System Technology (ICDSST 2020), Zaragoza, Spain, 27 - 29 May 2020, pp.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, Turkey, 19 - 20 November 2019, pp.327-338
- III. **Optimization of blank poly(lactic-coglycolic acid) nanoparticle formulations using Artificial Neural Networks**
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8th BBBB International Conference on Pharmaceutical Sciences, 14 - 16 October 2019
- IV. **Application of Central Composite Design in the optimization of blank poly(lactic-coglycolic acid) nanoparticles**
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- V. **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
- VI. **PROMETHEE Approaches for Medical Decision Support under Uncertainty**
CEBESOY M., TUNCER ŞAKAR C., YET B.
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- VII. **Otomotiv Endüstrisinde Çok Kriterli Güvenilirlik Yaklaşımları**
GÜNER G. G. , TUNCER ŞAKAR C., YET B.
39. Yöneyem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi (YA/EM 2019), Ankara, Turkey, 12 - 14 June 2019, pp.89
- VIII. **Sıralı Döğümler Yöntemi ile Bayes Ağı Temelli Fizyoterapi Karar Destek Aracı Öğrenilmesi**
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- IX. **Belirsizlik Altında Medikal Karar Destek İçin Çok Kriterli Karar Verme Yaklaşımları**
GÜNER G. G. , TUNCER ŞAKAR C., YET B.
39. Yöneyem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi (YA/EM 2019), Ankara, Turkey, 12 - 14 June 2019, pp.99
- X. **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
- XI. **Probabilistic Earned Value Management Using Bayesian Networks**
YET B., SÜ Y.
INFORMS 2018, Phoenix, United States Of America, 2 - 06 November 2018, pp.488
- XII. **Belirsizlik Altında Proje Kontrolü İçin Bayes Temelli Kazanılan Değer Yönetimi**
SÜ Y., YET B.
38. Yöneyem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi (YAEM-2018), Eskişehir, Turkey, 26 - 29 June 2018, pp.70
- XIII. **Karmaşık Bayes Ağlarının Sıralı Döğümler Yöntemi ile Küçük Miktarda Veriden Öğrenilmesi**
İŞYAR S., YET B.
38. Yöneyem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi (YAEM-2018), Eskişehir, Turkey, 26 - 29 June 2018, pp.85
- XIV. **A Probabilistic Approach for Indirect Elicitation of the Preferences of a Decision Maker**
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BALCOR 2018 - XIII Balkan Conference on Operational Research, Belgrade, Serbia And Montenegro, 25 - 28 May 2018, pp.39
- XV. **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, Croatia, 15 - 16 October 2018, vol.255, pp.175-179
- XVI. **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
- XVII. **Predicting limb viability following lower extremity vascular trauma**
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Annual Meeting of the Society-of-Academic-and-Research-Surgery (SARS), Dublin, Ireland, 18 - 19 January 2017, vol.104, pp.7
- XVIII. **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, Canada, 18 July - 21 December 2016

- XIX. **Predictive Accuracy of a Civilian Bayesian Network Trauma Tool in a Military Cohort and Applicability to Trauma Performance Improvement**
Mossadegh S., YET B., Perkins Z., Marsh W., Tai N.
International Surgical Congress of the Association-of-Surgeons-of-Great-Britain-and-Ireland, Belfast, England, 01 January 2016, vol.103, pp.96
- XX. **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, Turkey, 13 - 15 July 2016, pp.56-57
- XXI. **NEDENSEL BAYES AĞLARI İLE CERRAHİ KARAR DESTEK**
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35. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi (YAEM-2015), Ankara, Turkey, 9 - 11 September 2015
- XXII. **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, Netherlands, 12 - 16 July 2015
- XXIII. **Prognostic Factors for Amputation Following Surgical Repair of Lower Extremity Vascular Trauma: A Systematic Review and Meta-Analysis of Observational Studies**
Perkins Z. B. , YET B., Glasgow S., Marsh W., Brohi K., Rasmussen T. E. , Tai N. R.
Vascular Annual Meeting of the Society-for-Vascular-Surgery, Massachusetts, United States Of America, 5 - 07 June 2014, vol.59
- XXIV. **Explicit Evidence for Prognostic Bayesian Network Models**
YET B., Perkins Z., Tai N., Marsh W.
25th European Medical Informatics Conference (MIE), İstanbul, Turkey, 31 August - 03 September 2014, vol.205, pp.53-57
- XXV. **EARLY PREDICTION OF TRAUMATIC COAGULOPATHY USING ADMISSION CLINICAL VARIABLES**
Perkins Z., YET B., Glasgow S., Brohi K., Marsh W., Tai N. R. M.
5th Congress of the European-Shock-Society (ESS), Vienna, Austria, 12 - 14 September 2013, vol.40, pp.25
- XXVI. **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, United States Of America, 15 July 2013, vol.1024, pp.49
- XXVII. **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, Slovenia, 02 July 2011, pp.107-120

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YET B.

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Citations

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