

## **Assoc. Prof. Esra Bař**

### **Personal Information**

**Email:** atace@itu.edu.tr

### **Education Information**

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Endüstri Mühendislięi Anabilim Dalı, Turkey 2005 - 2008

Postgraduate, Technische Universitaet Berlin, Üretim Mühendislięi, Germany 2001 - 2004

Postgraduate, Yeditepe University, Institute Of Social Sciences, Uluslararası İşletme (YI) (Tezli) (Almanca), Turkey 1999 - 2001

Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendislięi Bölümü, Turkey 1994 - 1999

### **Foreign Languages**

German

### **Academic Titles / Tasks**

Associate Professor, Istanbul Technical University, İşletme Fakültesi, Endüstri Mühendislięi Bölümü, 2014 - Continues

Assistant Professor, Istanbul Technical University, İşletme Fakültesi, Endüstri Mühendislięi Bölümü, 2010 - Continues

### **Academic and Administrative Experience**

İstanbul Teknik Üniversitesi, İşletme Fakültesi, Endüstri Mühendislięi Bölümü, 2013 - Continues

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

- I. **STPA methodology in a socio-technical system of monitoring and tracking diabetes mellitus**  
Bař E.  
APPLIED ERGONOMICS, vol.89, 2020 (SCI-Expanded)
- II. **An integrated OSH risk management approach to surgical flow disruptions in operating rooms**  
Bař E.  
SAFETY SCIENCE, vol.109, pp.281-293, 2018 (SCI-Expanded)
- III. **A three step methodology for GI classification GL estimation of foods by fuzzy c means classification and fuzzy pattern recognition and an LP based diet model for glycaemic control**  
Bař E.  
FOOD RESEARCH INTERNATIONAL, vol.0, 2016 (SCI-Expanded)
- IV. **A robust optimization approach to diet problem with overall glycemic load as objective function**  
Bař E.  
Applied Mathematical Modelling, vol.0, 2014 (SCI-Expanded)

- V. **An integrated quality function deployment and capital budgeting methodology for occupational safety and health as a systems thinking approach: The case of the construction industry**  
Baş E.  
ACCIDENT ANALYSIS AND PREVENTION, vol.68, pp.42-56, 2014 (SSCI)
- VI. **A framework for child safety and health management by analogy to occupational safety and health management**  
Baş E.  
Safety Science, vol.0, 2014 (SCI-Expanded)
- VII. **A robust approach to the decision rules of NPV and IRR for simple projects**  
Baş E.  
Applied Mathematics and Computation, vol.0, 2013 (SCI-Expanded)
- VIII. **The integrated framework for analysis of electricity supply chain using an integrated SWOT fuzzy TOPSIS methodology combined with AHP The case of Turkey**  
Baş E.  
International Journal of Electrical Power & Energy Systems, vol.0, 2013 (SCI-Expanded)
- IX. **Surrogate relaxation of a fuzzy multidimensional 0 1 knapsack model by surrogate constraint normalization rules and a methodology for multi attribute project portfolio selection**  
Baş E.  
Engineering Applications of Artificial Intelligence, vol.0, 2012 (SCI-Expanded)
- X. **A capital budgeting problem for preventing workplace mobbing by using analytic hierarchy process and fuzzy 0 1 bidimensional knapsack model**  
Baş E.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.0, 2011 (SCI-Expanded)
- XI. **An investment plan for preventing child injuries using risk priority number of failure mode and effects analysis methodology and a multi objective multi dimensional mixed 0 1 knapsack model**  
Baş E.  
RELIABILITY ENGINEERING & SYSTEM SAFETY, vol.0, 2011 (SCI-Expanded)
- XII. **Fuzzy capital rationing model**  
BAŞ E., Kahraman C.  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.224, no.2, pp.628-645, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **An Application of Fuzzy Data Envelopment Analysis Approach for Occupational Safety**  
Baş E.  
PERFORMANCE MEASUREMENT WITH FUZZY DATA ENVELOPMENT ANALYSIS, vol.309, pp.231-242, 2014 (Scopus)
- II. **Fuzzy Capital Rationing Models**  
Baş E., Kahraman C.  
FUZZY ENGINEERING ECONOMICS WITH APPLICATIONS, vol.233, pp.359-380, 2008 (Scopus)

## Books & Book Chapters

- I. **Einführung in Wahrscheinlichkeitsrechnung, Statistik und Stochastische Prozesse**  
Baş E.  
Springer-Verlag , Wiesbaden, 2020
- II. **Basics of Probability and Stochastic Processes**  
BAŞ E.  
Springer Nature Switzerland AG, 2019

**III. 50 Soruda Endüstri Mühendisliği**

Baş E.

Bilim ve Gelecek Yayınevi, İstanbul, 2017

**IV. Mühendislik Ekonomisi Temel Kavramlar ve Örnek Problemler**

BAŞ E.

Beta Yayıncılık, 2012

## **Metrics**

Publication: 23

Citation (WoS): 20

Citation (Scopus): 23

H-Index (WoS): 1

H-Index (Scopus): 1

## **Non Academic Experience**

Yeditepe Üniversitesi