

## Doç.Dr. Cenk BUDAYAN

### Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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### Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, Türkiye 2004 - 2009

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği, Türkiye 2003 - 2009

### Araştırma Alanları

İnşaat Mühendisliği , Yapı Yönetimi, Yapı İşletmesi, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Doç.Dr., Yıldız Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2019 - Devam Ediyor

Dr.Öğr.Üyesi, Yıldız Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2013 - 2019

Diğer, University of Salford, Mühendislik Fakültesi, Built And Environment, 2012 - 2013

Araştırma Görevlisi Dr., Selçuk Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği, 2009 - 2012

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği, 2004 - 2009

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

- I. **Development of a knowledge-based tool for waste management of prefabricated steel structure projects**  
Mirshekarlou B. R., BUDAYAN C., DİKMEN TOKER İ., BİRGÖNÜL M. T.  
JOURNAL OF CLEANER PRODUCTION, cilt.323, 2021 (SCI-Expanded)
- II. **Reasons for Performance Differences among ISO 9001:2015-Certified Construction Companies in the Perspective of TQM Elements**  
OKUDAN O., BUDAYAN C.  
Journal of Management in Engineering, cilt.37, sa.5, 2021 (SCI-Expanded)
- III. **A knowledge-based risk management tool for construction projects using case-based reasoning**  
OKUDAN O., BUDAYAN C., DİKMEN TOKER İ.  
Expert Systems with Applications, cilt.173, 2021 (SCI-Expanded)
- IV. **Development of a conceptual life cycle performance measurement system for build-operate-transfer (BOT) projects**  
OKUDAN O., BUDAYAN C., Dikmen I.  
Engineering, Construction and Architectural Management, cilt.28, ss.1635-1656, 2021 (SCI-Expanded)
- V. **Determination of Important Building Construction Nuisances in Residential Areas on Neighbouring**

## **Community**

Budayan C., Çelik T.

Teknik Dergi, cilt.32, sa.2, ss.1-12, 2021 (SCI-Expanded)

- VI. **Identification and prioritization of stage-level KPIs for BOT projects - evidence from Turkey**  
BUDAYAN C., OKUDAN O., DİKMEN TOKER İ.  
INTERNATIONAL JOURNAL OF MANAGING PROJECTS IN BUSINESS, cilt.13, sa.6, ss.1311-1337, 2020 (SSCI)
- VII. **Construction cost map of European countries**  
BUDAYAN C., Dikmen I., BİRGÖNÜL M. T.  
Engineering Economist, cilt.65, sa.2, ss.135-157, 2020 (SCI-Expanded)
- VIII. **Assessing the social cost of housing projects on the built environment: Analysis and monetization of the adverse impacts incurred on the neighbouring communities**  
Çelik T., ARAYICI Y., BUDAYAN C.  
Environmental Impact Assessment Review, cilt.77, ss.1-10, 2019 (SSCI)
- IX. **Key Performance Indicators of Vocational Education and Training in the Construction Industry**  
IŞIK Z., BUDAYAN C., ALADAĞ H., DEMİRDÖĞEN G., YILMAZ T., ARDİTİ D.  
TEKNIK DERGI, cilt.30, sa.3, ss.9147-9174, 2019 (SCI-Expanded)
- X. **Estimation at Completion Simulation Using the Potential of Soft Computing Models: Case Study of Construction Engineering Projects**  
AlHares E. F. T., BUDAYAN C.  
SYMMETRY-BASEL, cilt.11, sa.2, 2019 (SCI-Expanded)
- XI. **Implementation of Genetic Algorithm Integrated with the Deep Neural Network for Estimating at Completion Simulation**  
Kareem Kamoon K. R., BUDAYAN C.  
Advances in Civil Engineering, cilt.2019, 2019 (SCI-Expanded)
- XII. **Evaluation of Delay Causes for BOT Projects Based on Perceptions of Different Stakeholders in Turkey**  
BUDAYAN C.  
JOURNAL OF MANAGEMENT IN ENGINEERING, cilt.35, sa.1, 2019 (SCI-Expanded)
- XIII. **Effects of Risk Attitude and Controllability Assumption on Risk Ratings: Observational Study on International Construction Project Risk Assessment**  
Dikmen I., BUDAYAN C., BİRGÖNÜL M. T., HAYAT E.  
JOURNAL OF MANAGEMENT IN ENGINEERING, cilt.34, sa.6, 2018 (SCI-Expanded)
- XIV. **A Computerized Method for Delay Risk Assessment Based on Fuzzy Set Theory using MS Project (TM)**  
BUDAYAN C., Dikmen I., BİRGÖNÜL M. T., GHAZIANI A.  
KSCE JOURNAL OF CIVIL ENGINEERING, cilt.22, sa.8, ss.2714-2725, 2018 (SCI-Expanded)
- XV. **Analysis of critical success factors in public private partnership projects by triangulation method: Turkey perspective**  
BUDAYAN C.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, cilt.33, sa.3, ss.1029-1044, 2018 (SCI-Expanded)
- XVI. **An expert system for the quantification of fault rates in construction fall accidents**  
BİRGÖNÜL M. T., Dikmen I., BUDAYAN C., Demirel T.  
INTERNATIONAL JOURNAL OF OCCUPATIONAL SAFETY AND ERGONOMICS, cilt.22, sa.1, ss.20-31, 2016 (SSCI)
- XVII. **Alignment of project management with business strategy in construction: evidence from the Turkish contractors**  
BUDAYAN C., Dikmen I., BİRGÖNÜL M. T.  
JOURNAL OF CIVIL ENGINEERING AND MANAGEMENT, cilt.21, sa.1, ss.94-106, 2015 (SCI-Expanded)
- XVIII. **Comparing the performance of traditional cluster analysis, self-organizing maps and fuzzy C-means method for strategic grouping**  
Budayan C., Dikmen I., BİRGÖNÜL M. T.

EXPERT SYSTEMS WITH APPLICATIONS, cilt.36, sa.9, ss.11772-11781, 2009 (SCI-Expanded)

**XIX. Strategic Group Analysis in the Construction Industry**

Dikmen I., BİRGÖNÜL M. T., Budayan C.

JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT-ASCE, cilt.135, sa.4, ss.288-297, 2009 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

**I. ASSESSMENT OF PROJECT CHARACTERISTICS AFFECTING RISK OCCURRENCES IN CONSTRUCTION PROJECTS USING FUZZY AHP**

Okudan O., Budayan C.

Sigma Journal of Engineering and Natural Science, cilt.38, sa.3, ss.1447-1462, 2020 (ESCI)

**II. Determination of the Critical Success Criteria for Public-Private Partnership (PPP) Projects in Turkey**

Okudan O., Budayan C.

Journal of Polytechnic, cilt.2020, 2020 (Hakemli Dergi)

**III. Project Portfolio Management Applications for Turkish Construction Industry in Istanbul Region**  
BUDAYAN C.

JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, cilt.20, sa.3, ss.699-709, 2017 (ESCI)

**IV. Investigation of drivers and modes of differentiation in Turkish construction industry**

Budayan C., Dikmen Toker İ., Birgönül M. T.

Engineering, Construction and Architectural Management, cilt.20, ss.345-364, 2013 (Scopus)

**V. Hybrid strategic groups in construction**

BUDAYAN C., Dikmen İ., Birgönül T.

Engineering Project Organization Journal, cilt.1, sa.3, ss.183-196, 2011 (Scopus)

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

**I. Matlab Script for Fuzzy AHP Analysis**

Okudan O., Budayan C.

6th international Project and Construction Management Conference, İstanbul, Türkiye, 12 - 14 Kasım 2020, ss.1377-1385

**II. Determination of KPIs for Small and Medium Sized Construction Companies**

Okudan O., Budayan C.

14TH INTERNATIONAL CONFERENCE ORGANIZATION, TECHNOLOGY AND MANAGEMENT IN CONSTRUCTION, Zagreb, Hırvatistan, 4 - 07 Eylül 2019, ss.160-176

**III. Role of Vocational Education and Training in the Construction Industry Performance**

IŞIK Z., ALADAĞ H., DEMİRDÖĞEN G., BUDAYAN C., YILMAZ T.

IJAS 2018 (International Journal of Arts Sciences) - International Conference for Teaching and Education, 23 - 27 Temmuz 2018

**IV. Critical Success Factors for Public Private Partnership Projects in Turkey**

BUDAYAN C.

5th international project and construction management conference, Girne, Kıbrıs (Kktc), 16 - 18 Kasım 2018, ss.1570-1582

**V. Akademisyenlerin ve Özel Sektörün Yeni Mezun İnşaat Mühendislerinin Sahip Olması Gereken Yeteneklere Dair Bakış Açıları**

BUDAYAN C., ÇELİK T.

4. Proje ve Yapım Yönetimi Kongresi, Türkiye, 3 - 05 Kasım 2016

**VI. How the Residents are Affected from Construction Operations Conducted in Residential Areas**

CELİK T., BUDAYAN C.

World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium, WMCAUS 2016, Prague, Çek Cumhuriyeti, 13 - 17 Haziran 2016, cilt.161, ss.394-398

**VII. Türkiye İnşaat Sektöründe ISO 9000 Sahip Firmaların Toplam Kalite Yönetim Sistemini Uygulama Seviyeleri**

Budayan C., Karakaya E., Öztürk M., Hacıdursunoğlu Y.

3. Proje ve Yapım Yönetimi Kongresi, Antalya, Türkiye, 01 Kasım 2014, ss.100-101

**VIII. Avrupa Ülkeleri Arasındaki İnşaat Maliyetlerinin Kıyaslanmasına Yönelik Bir Kümeleme Analizi**

BUDAYAN C., BİRGÖNÜL M. T., DİKMEN TOKER İ.

2. Proje ve Yapım Yönetimi Kongresi, Türkiye, 13 - 16 Eylül 2012

**IX. İnşaat Firmaları için Web Tabanlı Risk Bilgisi Toplama Platformu Kavramsal Çerçeve**

BUDAYAN C.

1. Proje ve Yapım Yönetimi Kongresi, Türkiye, 29 Eylül - 01 Ekim 2010

**X. Strategic group analysis by using fuzzy clustering**

BUDAYAN C., DİKMEN TOKER İ., BİRGÖNÜL M. T.

Proceedings of Fifth International Conference on Construction in the 21th century, 20 - 22 Mayıs 2009, ss.245-252

**XI. Modes of differentiation strategies in the construction industry**

BUDAYAN C., DİKMEN TOKER İ., BİRGÖNÜL M. T.

Proceedings of International Research Symposium, 27 - 28 Ocak 2009, ss.309-323

**XII. Strategic group analysis by using self organizing maps**

Budayan C., Dikmen I., Birgonul T.

23rd Annual Conference on Association of Researchers in Construction Management, ARCOM 2007, Belfast,

Birleşik Krallık, 3 - 05 Eylül 2007, cilt.1, ss.223-232

**XIII. Türk İnşaat Sektöründe Stratejik Grup Analizi**

BUDAYAN C., DİKMEN TOKER İ., BİRGÖNÜL M. T.

4. İnşaat Yönetimi Kongresi, Türkiye, 30 - 31 Ekim 2007

**XIV. Research Trends In Construction Management Throughout Twenty Years**

BUDAYAN C., Alshawhi M., Arayici Y.

## Desteklenen Projeler

Budayan C., Okudan O., Yükseköğretim Kurumları Destekli Proje, A KNOWLEDGE-BASED RISK MANAGEMENT TOOL FOR CONSTRUCTION PROJECTS USING CASE-BASED REASONING, 2020 - 2021

Budayan C., Işık Z., Aladağ H., Yılmaz T., Demirdöğen G., AB Destekli Diğer Projeler, Determination of a European Standart for Key Performance Indicators KPIs in Vocational Training Models of Construction Industry, 2014 - 2017

BUDAYAN C., TÜBİTAK Projesi, İnşaat Projelerinde Ortaya Çıkan Risk Bilgisinin Elde Edilmesi Ve Bu Bilginin Tekrar Kullanılabilmesi İçin Web Tabanlı Bir Platformun Geliştirilmesi, 2012 - 2013

## Metrikler

Yayın: 40

Atıf (WoS): 165

Atıf (Scopus): 314

H-İndeks (WoS): 6

H-İndeks (Scopus): 8