

Assoc. Prof. Cenk BUDAYAN

Personal Information

Office Phone: [+90 212 383 5255](tel:+902123835255)

Web: <https://avesis.yildiz.edu.tr/budayan>

International Researcher IDs

ORCID: 0000-0002-8433-2824

Yoksis Researcher ID: 139952

Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, İnşaat Mühendisliği, Turkey 2004 - 2009

Undergraduate, Middle East Technical University, Faculty Of Engineering, İnşaat Mühendisliği, Turkey 2003 - 2009

Research Areas

Civil Engineering, Building Management, Construction Management, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, 2019 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, 2013 - 2019

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

Research Assistant PhD, Selçuk University, Faculty Of Engineering, İnşaat Mühendisliği, 2009 - 2012

Research Assistant, Middle East Technical University, Faculty Of Engineering, İnşaat Mühendisliği, 2004 - 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- 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, vol.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, vol.37, no.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, vol.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, vol.28, pp.1635-1656, 2021 (SCI-Expanded)

- V. **Determination of Important Building Construction Nuisances in Residential Areas on Neighbouring Community**
Budayan C., Çelik T.
Teknik Dergi, vol.32, no.2, pp.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, vol.13, no.6, pp.1311-1337, 2020 (SSCI)
- VII. **Construction cost map of European countries**
BUDAYAN C., Dikmen I., BİRGÖNÜL M. T.
Engineering Economist, vol.65, no.2, pp.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, vol.77, pp.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.
TEKNİK DERGI, vol.30, no.3, pp.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, vol.11, no.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, vol.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, vol.35, no.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, vol.34, no.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, vol.22, no.8, pp.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, vol.33, no.3, pp.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, vol.22, no.1, pp.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, vol.21, no.1, pp.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, vol.36, no.9, pp.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, vol.135, no.4, pp.288-297, 2009 (SCI-Expanded)

Articles Published in Other Journals

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, vol.38, no.3, pp.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, vol.2020, 2020 (Peer-Reviewed Journal)

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

JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.20, no.3, pp.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, vol.20, pp.345-364, 2013 (Scopus)

V. Hybrid strategic groups in construction

BUDAYAN C., Dikmen İ., Birgönül T.

Engineering Project Organization Journal, vol.1, no.3, pp.183-196, 2011 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. Matlab Script for Fuzzy AHP Analysis

Okudan O., Budayan C.

6th international Project and Construction Management Conference, İstanbul, Turkey, 12 - 14 November 2020, pp.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, Croatia, 4 - 07 September 2019, pp.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 July 2018

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

BUDAYAN C.

5th international project and construction management conference, Girne, Cyprus (Kktc), 16 - 18 November 2018, pp.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, Turkey, 3 - 05 November 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, Czech Republic, 13 - 17 June 2016, vol.161, pp.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, Turkey, 01 November 2014, pp.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, Turkey, 13 - 16 September 2012
- IX. **İnşaat Firmaları için Web Tabanlı Risk Bilgisi Toplama Platformu Kavramsal Çerçeve**
BUDAYAN C.
1. Proje ve Yapım Yönetimi Kongresi, Turkey, 29 September - 01 October 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 May 2009, pp.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 January 2009, pp.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, United Kingdom, 3 - 05 September 2007, vol.1, pp.223-232
- XIII. **Türk İnşaat Sektöründe Stratejik Grup Analizi**
BUDAYAN C., DİKMEN TOKER İ., BİRGÖNÜL M. T.
4. İnşaat Yönetimi Kongresi, Turkey, 30 - 31 October 2007
- XIV. **Research Trends In Construction Management Throughout Twenty Years**
BUDAYAN C., Alshawhi M., Arayici Y.

Supported Projects

Budayan C., Okudan O., Project Supported by Higher Education Institutions, 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., EU Supported Other Project, Determination of a European Standart for Key Performance Indicators KPIs in Vocational Training Models of Construction Industry, 2014 - 2017

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

Metrics

Publication: 40
Citation (WoS): 165
Citation (Scopus): 314
H-Index (WoS): 6
H-Index (Scopus): 8