

Doç.Dr. Onur Behzat Tokdemir

Kişisel Bilgiler

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Biyografi

Dr. Tokdemir gained his undergraduate degree from the Civil Engineering Department of Middle East Technical University and his M.Sc. and Ph.D. degrees from the Civil Engineering Department of Illinois Institute of Technology. He is a licensed engineer in the State of Illinois and LEED AP BD+C. He holds unique and diverse specialties and expertise in various areas such as; construction and project management, building information modeling (BIM), lean construction, sustainability, and green buildings.

During his tenure in Rönesans Holding, he managed the Environmental and Social Sustainability requirements, which eventually paved the way for Rönesans and IFC's (International Finance Corporation) partnership. He signed and followed up on all public documentation, including green building commitment. His team built the corporate-level environmental and social management system based on IFC Performance Standards.

Since 2004, Dr. Tokdemir has taught various courses in prestigious universities such as "The Illinois Institute of Technology," "City College of New York," "New York University (Poly)," "Qatar University," and Istanbul Technical University as an Adjunct Professor.

Dr. Tokdemir has several papers in major journals such as "Journal of Computing in Civil Engineering," "Construction Management and Economics," "Journal of Construction Engineering and Management," "Engineering Construction and Architectural Management," and "International Journal of Project Management."

Eğitim Bilgileri

Doktora, Illinois Institute of Technology, Faculty of Engineering, Department of Civil Engineering, Amerika Birleşik Devletleri 1997 - 2003

Yüksek Lisans, Illinois Institute of Technology, Faculty of Engineering, Department of Civil Engineering, Amerika Birleşik Devletleri 1995 - 1997

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 1990 - 1995

Araştırma Alanları

İnşaat Yönetiminde Bilişim, Yapı İşletmesi

Akademik Unvanlar / Görevler

Doç.Dr., İstanbul Teknik Üniversitesi, İnşaat, İnşaat Mühendisliği, 2022 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2020 - 2022

Dr.Öğr.Üyesi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2017 - 2020

Akademik İdari Deneyim

Bölüm Başkan Yardımcısı, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2019 - 2020

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Quality Failures-Based Critical Cost Impact Factors: Logistic Regression Analysis**
Kazar G., Dogan N. B. , Ayhan B. U. , Tokdemir O. B.
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT, cilt.148, sa.12, 2022 (SCI-Expanded)
- II. **Development of zero-based budgeting approach for multinational construction contractors**
Kazar G., Mutlu U., Tokdemir O. B.
ENGINEERING CONSTRUCTION AND ARCHITECTURAL MANAGEMENT, 2022 (SCI-Expanded)
- III. **Automating Coordination Efforts for Reviewing Construction Contracts with Multilabel Text Classification**
Candas A. B. , TOKDEMİR O. B.
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT, cilt.148, sa.6, 2022 (SCI-Expanded)
- IV. **Automated Identification of Vagueness in the FIDIC Silver Book Conditions of Contract**
Candas A. B. , TOKDEMİR O. B.
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT, cilt.148, sa.4, 2022 (SCI-Expanded)
- V. **A decentralized structure to reduce and resolve construction disputes in a hybrid blockchain network**
Saygili M., Mert I. E. , TOKDEMİR O. B.
AUTOMATION IN CONSTRUCTION, cilt.134, 2022 (SCI-Expanded)
- VI. **BIM-based facility management models for existing buildings**
Soliman K., Naji K., Gunduz M., TOKDEMİR O. B. , Faqih F., Zayed T.
Journal of Engineering Research (Kuwait), cilt.10, sa.1, ss.21-37, 2022 (SCI-Expanded)
- VII. **Accident Analysis for Construction Safety Using Latent Class Clustering and Artificial Neural Networks**
Ayhan B. U. , TOKDEMİR O. B.
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT, cilt.146, sa.3, 2020 (SCI-Expanded)
- VIII. **AN ASSOCIATION RULE MINING MODEL FOR THE ASSESSMENT OF THE CORRELATIONS BETWEEN THE ATTRIBUTES OF SEVERE ACCIDENTS**
Ayhan B. U. , Dogan N. B. , TOKDEMİR O. B.
JOURNAL OF CIVIL ENGINEERING AND MANAGEMENT, cilt.26, sa.4, ss.315-330, 2020 (SCI-Expanded)
- IX. **Safety assessment in megaprojects using artificial intelligence**
Ayhan B. U. , TOKDEMİR O. B.
SAFETY SCIENCE, cilt.118, ss.273-287, 2019 (SCI-Expanded)
- X. **Predicting the outcome of construction incidents**
Ayhan B. U. , TOKDEMİR O. B.
SAFETY SCIENCE, cilt.113, ss.91-104, 2019 (SCI-Expanded)
- XI. **Delay Risk Assessment of Repetitive Construction Projects Using Line-of-Balance Scheduling and Monte Carlo Simulation**

TOKDEMİR O. B. , EROL H. H. , DİKMEN TOKER İ.

JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT, cilt.145, sa.2, 2019 (SCI-Expanded)

XII. Integrating lean construction into the civil engineering curriculum

Kuzucuoglu D., Ayhan B. U. , TOKDEMİR O. B.

International Journal of Engineering Education, cilt.35, sa.6A, ss.1787-1802, 2019 (SCI-Expanded)

XIII. Challenges in line-of-balance scheduling

Arditi D., TOKDEMİR O. B. , Suh K.

JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT-ASCE, cilt.128, sa.6, ss.545-556, 2002 (SCI-Expanded)

XIV. Comparison of case-based reasoning and artificial neural networks

Arditi D., TOKDEMİR O. B.

JOURNAL OF COMPUTING IN CIVIL ENGINEERING, cilt.13, sa.3, ss.162-169, 1999 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **A quantitative, evidence-based analysis of correlations between lean construction and building information modelling**
Arayıcı Y., Tokdemir O. B. , Kassem M.
SMART AND SUSTAINABLE BUILT ENVIRONMENT, 2022 (ESCI)
- II. **Potential benefits of agile project management in improving construction project performances: A case study of Iraq**
KAZAR G., Almhamdawe A., TOKDEMİR O. B.
Journal of Construction Engineering, Management & Innovation (Online), cilt.5, sa.2, ss.64-76, 2022 (Hakemli Dergi)
- III. **A lean thinking perspective towards K12 classroom design in Turkey**
TAŞKIN G. N. , TOKDEMİR O. B.
Journal of Construction Engineering, Management & Innovation (Online), cilt.3, sa.3, ss.232-248, 2020 (Hakemli Dergi)
- IV. **A unified approach to evaluate green hospitals' certification criteria**
Candaş A. B. , TOKDEMİR O. B.
Journal of Construction Engineering, Management & Innovation (Online), cilt.2, sa.3, ss.157-166, 2019 (Hakemli Dergi)
- V. **Türkiye İnşaat Sektörü Alt Yüklenici Sözleşmelerinde İhtilafa Sebep Olan Konuların Delphi tekniği ile belirlenmesi**
Candaş A. B. , TOKDEMİR O. B.
ENGINEERING SCIENCES, cilt.8, sa.2, ss.1005-1017, 2019 (Hakemli Dergi)
- VI. **Keskin Bir Cisim ile Temas Sonucu Yaralanma Kazalarının Analitik Hiyerarşi Prosesi ve Yapay Sinir Ağları ile Analizi**
AYHAN B. U. , TOKDEMİR O. B.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, cilt.10, sa.1, ss.323-334, 2019 (Hakemli Dergi)
- VII. **Sustainable Construction in Turkish Higher Education Context**
TOPAK F., TOKDEMİR O. B. , PEKERİÇLİ M. K. , TANYER A. M.
Journal of Construction Engineering, Management & Innovation (Online), cilt.2, sa.1, ss.40-47, 2019 (Hakemli Dergi)
- VIII. **Lean Project Management using Unmanned Aerial Vehicles**
ERSÖZ A. B. , PEKCAN O., TOKDEMİR O. B.
Tamap Journal of Engineering, 2019 (Hakemli Dergi)
- IX. **Research development of lean construction journal: A bibliometric analysis**
Saygılı M., ERDEKLİ Y. K. , TOKDEMİR O. B.
Lean Construction Journal, cilt.2019, ss.47-63, 2019 (Scopus)

- X. **REDUCING WATER CONSUMPTION WITH SUSTAINABLE BUILDING DESIGN A CASE STUDY**
THOMOLLARI X, BAHADIR Ü., TOĞAN V., TOKDEMİR O. B.
The Turkish Journal Of Occupational/Environmental Medicine and Safety, cilt.2, sa.1 (3), ss.444-453, 2017
(Hakemli Dergi)
- XI. **ALISS: Advanced Linear Scheduling System**
TOKDEMİR O. B. , Arditi D., Balcik C.
CONSTRUCTION MANAGEMENT AND ECONOMICS, cilt.24, sa.12, ss.1253-1267, 2006 (ESCI)
- XII. **Scheduling system for high rise building construction**
Arditi D., Sikangwan P., TOKDEMİR O. B.
Construction Management and Economics, cilt.20, sa.4, ss.353-364, 2002 (Scopus)
- XIII. **Scheduling system for repetitive unit construction using line-of-balance technology**
Arditi D., TOKDEMİR O. B. , Suh K.
Engineering, Construction and Architectural Management, cilt.8, sa.2, ss.90-103, 2001 (Scopus)
- XIV. **Effect of learning on line-of-balance scheduling**
Arditi D., TOKDEMİR O. B. , Suh K.
International Journal of Project Management, cilt.19, sa.5, ss.265-277, 2001 (Scopus)
- XV. **Using case-based reasoning to predict the outcome of construction litigation**
Arditi D., TOKDEMİR O. B.
Computer-Aided Civil and Infrastructure Engineering, cilt.14, sa.6, ss.385-393, 1999 (Scopus)
- XVI. **Predicting the outcome of construction litigation using neural networks**
Arditi D., Oksay F. E. , TOKDEMİR O. B.
Computer-Aided Civil and Infrastructure Engineering, cilt.13, sa.2, ss.75-81, 1998 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Research Review Summary of the San Fernando Earthquake**
Saygılı M., Yıkılmaz D., TOKDEMİR O. B.
ASCE Lifelines Conference 2021 2022, Los-Angeles, Şili, 07 Şubat 2021
- II. **Risk Management of Construction Projects by Implementation of Lean Construction and Building Information Modelling**
Coşkun C., TOKDEMİR O. B.
IES'20 International Engineering Symposium | Engineering Applications in Industry (Virtual), İzmir, Türkiye, 05 Aralık 2020
- III. **Exploring the Adaptability of Daily Look-Ahead Meetings in the Construction Industry**
Yılmaz A., TOKDEMİR O. B.
6th International Project and Construction Management Conference (e-IPCMC2020), İstanbul, Türkiye, 12 - 14 Kasım 2020, ss.1318-1325
- IV. **Cost Comparison of Reinforced Concrete Structures Designed According to Turkish and European Earthquake Codes**
Buzuku J., Gorona L., TOKDEMİR O. B.
6th International Project and Construction Management Conference (e-IPCMC2020), İstanbul, Türkiye, 12 - 14 Kasım 2020, ss.618-631
- V. **Investigating the Trinity Between Sustainability and BIM - Lean Synergy: A Systematic Review of Existing Studies**
BOSTANCI SABUR H. B. , TOKDEMİR O. B. , TANYER A. M.
6th International Sustainable, Ecological, Engineering, Design for Society (SEEDS) Conference, Ipswich, İngiltere, 2 - 03 Eylül 2020
- VI. **Investigating the Trinity Between Sustainability and BIM - Lean Synergy: A Systematic Review of Existing Studies**
BOSTANCI SABUR H. B. , TOKDEMİR O. B. , TANYER A. M.

6th International Sustainable, Ecological, Engineering, Design for Society (SEEDS) Conference, İngiltere, 2 - 03 Eylül 2020, ss.45-46

VII. A BIBLIOMETRIC REVIEW OF GLOBAL SCIENTIFIC RESEARCH TRENDS ON ARTIFICIAL INTELLIGENCE AND CONSTRUCTION MANAGEMENT FROM 1988 TO 2018

KULOĞLU A. F. , SAYGILI M., TOKDEMİR O. B.

6th INTERNATIONAL CONFERENCE ON ENGINEERING NATURAL SCIENCES, URFA, Türkiye, 24 - 26 Ocak 2020, ss.135-142

VIII. Structural Performance of An Existing Building Roof Subjected to Additional PV Panel Load

Mostofi F., TOKDEMİR O. B. , TOĞAN V.

2nd International Conference on Photovoltaic Science and Technologies, PVCon 2020, Ankara, Türkiye, 30 Kasım - 02 Aralık 2020

IX. Scientific research trends of occupational health and safety in construction management over the past two decades

ERDEKLİ Y. K. , SAYGILI M., TOKDEMİR O. B.

5th International Conference on Engineering Sciences (ICES 2019), Ankara, Türkiye, 19 Eylül 2019, ss.59

X. Creating Lean Spaces: Utilizing Lean Methods to Achieve Optimal Architectural Design

Arslan B. B. , TOKDEMİR O. B.

International Civil Engineering and Architecture Conference 2019, Trabzon, Türkiye, 17 - 20 Nisan 2019

XI. Automation and Digitization in Construction for Eliminating Waste

Zeki Emre T., TOKDEMİR O. B.

International Civil Engineering and Architecture Conference 2019, Trabzon, Türkiye, 17 - 20 Nisan 2019

XII. Lean Project Management using Unmanned Aerial Vehicles

ERSÖZ A. B. , PEKCAN O., TOKDEMİR O. B.

5th International Project and Construction Management Conference (IPCMC2018), 16 - 18 Kasım 2018

XIII. Turkish Architectural and Civil Engineering Education within the Scope of Sustainable Construction

TOPAK F., TOKDEMİR O. B. , PEKERİÇLİ M. K. , TANYER A. M.

5. International Project Construction Management Conference, Girne, Kıbrıs (Kktc), 16 - 18 Kasım 2018, ss.200-208

XIV. The Evaluation of High Severe Occupational Accidents in Construction Industry

AYHAN B. U. , TOKDEMİR O. B.

VI. ULUSLARARASI GAP MÜHENDİSLİK KONGRESİ, 8 - 10 Kasım 2018, ss.368-373

XV. The Effect of Window Alternatives on Energy Consumption and Life Cycle Cost in Moderate-Humid Climate Regions in Residential Buildings

BAHADIR Ü., THOMOLLARI X., MAÇKA KALFA S., TOĞAN V., TOKDEMİR O. B.

2nd International Energy Engineering Conference, Gaziantep, Türkiye, 12 - 13 Ekim 2017, ss.139-153

XVI. Yapı Bilgi Modellemesi Yardımıyla Metraj ve Maliyet Hesabı

Gerçek B., İLAL M. E. , TOKDEMİR O. B. , GÜNAYDIN H. M.

4. Proje ve Yapım Yönetimi Kongresi, Eskişehir, Türkiye, 3 - 05 Kasım 2016, ss.786-796

XVII. Organizasyonel değişimin bir parçası olarak Proje Yönetim Ofisi (PMO): Bir inşaat şirketinde PMO kurulumu ve operasyonları

Yıldız A. E. , TOKDEMİR O. B.

3. Proje ve Yapım Yönetimi Kongresi, Antalya, Türkiye, 6 - 08 Kasım 2014, ss.458-470

XVIII. Prediction of Highway Bridge Performance by Artificial Neural Networks and Genetic Algorithms

TOKDEMİR O. B. , Ayvalık C., Mohammadi J.

ISARC 17, Taipei, Taiwan, TAYVAN, 18 - 20 Eylül 2000, ss.1091-1098

Bilimsel Dergilerdeki Faaliyetler

Journal of Construction Engineering, Management & Innovation (Online), Editör, 2018 - Devam Ediyor

Metrikler

Yayın: 49

Atıf (WoS): 305

Atıf (Scopus): 674

H-İndeks (WoS): 8

H-İndeks (Scopus): 12