

## Assoc. Prof. GÜZİDE ATASOY ÖZCAN

### Personal Information

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### International Researcher IDs

ScholarID: jiGoYUQAAAAJ

ORCID: 0000-0003-0512-9279

Publons / Web Of Science ResearcherID: A-6854-2018

ScopusID: 36676917400

Yoksis Researcher ID: 233026

### Education Information

Doctorate, Carnegie Mellon University, Civil And Environmental Engineering Department, United States Of America 2007 - 2013

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, İnşaat Mühendisliği (YI) (Tezli), Turkey 2005 - 2007

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 2000 - 2007

### Dissertations

Doctorate, Visualizing and Interacting with Construction Project Information, Carnegie Mellon University, Civil And Environmental Engineering Department, 2013

Postgraduate, Using Cognitive Maps for Modeling Project Success, Middle East Technical University, Graduate School of Natural and Applied Sciences, İnşaat Mühendisliği (YI) (Tezli), 2007

### Research Areas

Informatics in Construction Management, Construction Management

### Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2015 - 2018

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2005 - 2007

## Academic and Administrative Experience

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2023 - 2024

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Middle East Technical University, Presidency Office, Research and Implementation Center for Built Environment and Design (RICBED), 2016 - 2021

## Courses

Engineering Economy, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Construction Engineering and Management, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Research Methods and Ethical Issues in Civil Engineering, Postgraduate, 2021 - 2022, 2018 - 2019, 2017 - 2018, 2016 - 2017

Sustainability and Life Cycle Assessment of Civil Engineering Structures, Postgraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018

## Advising Theses

Atasoy Özcan G., Exploring the enablers and barriers of circular economy and blockchain adoption in the construction industry, Postgraduate, U.ŞAHİN(Student), 2023

Atasoy Özcan G., A BİM-based building circularity framework: Assessment and visualization through 5R strategies, Postgraduate, P.ECE(Student), 2023

Atasoy Özcan G., TRANSITIONING TO A CIRCULAR ECONOMY IN THE CONSTRUCTION INDUSTRY: BARRIERS AND ENABLERS FROM STAKEHOLDERS' PERSPECTIVES, Postgraduate, Z.KÖKSAL(Student), 2023

Atasoy Özcan G., Dikmen Toker İ., An Exploratory Study on Features of Intelligent Office Buildings and Development of an Assessment Tool, Doctorate, H.GÜNDOĞAN(Student), 2021

Atasoy Özcan G., QA/QC Formulation in Building Information Models via Structural Design Reviews, Postgraduate, E.ÇANDIR(Student), 2021

Atasoy Özcan G., Integrating smart city and smart building key performance indicators (KPI) for development of an integrated smart building assessment methodology, Postgraduate, A.SEMİH(Student), 2020

Atasoy Özcan G., Application of a risk visualization framework using semantic risk data to empower risk communication, Postgraduate, M.UĞURCAN(Student), 2020

Atasoy Özcan G., Error quantification in crack measurement of building materials using terrestrial laser scanning (TLS), Postgraduate, M.OYTUN(Student), 2020

Atasoy Özcan G., Quality Integrated Earned Value Management for Construction Projects, Postgraduate, E.AKGÜN(Student), 2019

Öztürk H. I., Atasoy Özcan G., Assessment of Applicability of Performance-based Contracts in Turkey for Road Maintenance Services, Postgraduate, K.ATEŞ(Student), 2019

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

- I. **Effect of Terrestrial Laser Scanning (TLS) parameters on the accuracy of crack measurement in building materials**  
Oytun M., ATASOY ÖZCAN G.  
AUTOMATION IN CONSTRUCTION, vol.144, 2022 (SCI-Expanded)
- II. **Exploring pattern of complexity in mega construction projects**  
Bilgin G., Erol H., ATASOY ÖZCAN G., Dikmen I., BİRGÖNÜL M. T.  
INTERNATIONAL JOURNAL OF MANAGING PROJECTS IN BUSINESS, vol.15, no.7, pp.1064-1090, 2022 (SSCI)
- III. **A decision-support tool for risk and complexity assessment and visualization in construction projects**

DİKMEN TOKER İ., ATASOY ÖZCAN G., EROL H. H., Kaya H. D., BİRGÖNÜL M. T.

Computers in Industry, vol.141, 2022 (SCI-Expanded)

- IV. **Empowering Risk Communication: Use of Visualizations to Describe Project Risks**  
ATASOY ÖZCAN G., Ertaymaz U., DİKMEN TOKER İ., BİRGÖNÜL M. T.  
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT, vol.148, no.5, 2022 (SCI-Expanded)
- V. **An analytic network process model for risk quantification of mega construction projects**  
EROL H. H., DİKMEN TOKER İ., ATASOY ÖZCAN G., BİRGÖNÜL M. T.  
Expert Systems with Applications, vol.191, 2022 (SCI-Expanded)
- VI. **Causal mapping to explore emergence of construction disputes**  
Tanriverdi C., ATASOY ÖZCAN G., DİKMEN TOKER İ., BİRGÖNÜL M. T.  
Journal of Civil Engineering and Management, vol.27, no.5, pp.288-302, 2021 (SCI-Expanded)
- VII. **Exploring the Relationship between Complexity and Risk in Megaconstruction Projects**  
Erol H., Dikmen İ., Atasoy G., BİRGÖNÜL M. T.  
Journal of Construction Engineering and Management, vol.146, no.12, 2020 (SCI-Expanded)
- VIII. **Sensing and Field Data Capture for Construction and Facility Operations**  
Taneja S., akinci b., garrett j., soibelman l., berges m., atasoy G., LIU X., SHAHANDASHTI S., ANIL B., ERGEN PEHLEVAN E., et al.  
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT, vol.137, no.10, pp.870-881, 2011 (SCI-Expanded)
- IX. **Analysis of modeling effort and impact of different levels of detail in building information models**  
Leite F., Akcamete A., Akinci B., Atasoy G., Kiziltas S.  
AUTOMATION IN CONSTRUCTION, vol.20, no.5, pp.601-609, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. **An Exploratory Study on Communication Complexity in Mega Construction Projects**  
Cakir I., Kaya H. D., Dikmen I., Atasoy Özcan G., Birgonul M. T.  
IOP CONFERENCE SERIES : EARTH AND ENVIRONMENTAL SCIENCE, vol.1101, pp.42045, 2022 (Scopus)
- II. **Examination of suitability of performance based contracts for the Turkish road maintenance sector**  
ATEŞ K., ATASOY ÖZCAN G., ÖZTÜRK H. I.  
Journal of Construction Engineering, Management Innovation, vol.3, no.3, pp.179-192, 2020 (Peer-Reviewed Journal)
- III. **Modeling Highway Projects: The Need for Highway Information Modeling (HIM) Guideline and Information Exchange**  
ERTAYMAZ U., ATASOY ÖZCAN G.  
Journal of Construction Engineering, Management & Innovation (Online), vol.2, no.1, pp.10-17, 2019 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Best Value Procurement in Build Operate Transfer Projects: The Turkish Experience**  
Dikmen Toker İ., Birgönül M. T., Atasoy Özcan G.  
in: Policy, finance and management for public-private partnerships, akintola akintoye, Matthias beck, Editor, John Wiley & Sons, West Sussex, UK , Singapore, pp.363-378, 2008

## Refereed Congress / Symposium Publications in Proceedings

- I. **Exploring quality issues in building information models via structural design reviews**  
Candir E., Atasoy G.  
IOP Conference Series: Earth and Environmental Science, 27 June 2022, vol.1101, pp.92011
- II. **Transitioning to a Circular Economy in the Construction Industry: Enablers and Barriers**  
KÖKSAL Z., ATASOY G.  
7th International Project and Construction Management Conference (IPCMC2022), İstanbul, Turkey, 20 - 22 October 2022, pp.1280-1291
- III. **Integrated Risk Assessment Process (IRAP) for Mega Construction Projects: A Demonstrative Case Study**  
EROL H. H., DİKMEN İ., ATASOY G., BİRGÖNÜL M. T.  
7th International Project and Construction Management Conference (IPCMC2022), İstanbul, Turkey, 20 - 22 October 2022, pp.1086-1098
- IV. **An Exploratory Study on Utilization of BIM for Risk Management**  
KAYA H. D., DİKMEN İ., ATASOY G., BİRGÖNÜL M. T.  
6th International Project and Construction Management Conference, İstanbul, Turkey, 12 - 14 November 2020, pp.1303-1317
- V. **An Assessment of Building Energy Performances by Building Envelope**  
YAZICIOĞLU G., İLİPİNAR D., ATASOY G.  
International Project and Construction Management Conference (IPCMC2020), İstanbul, Turkey, 12 - 14 November 2020
- VI. **Assessing Existing Buildings for LEED Retrofit: Case Study of a University Building**  
OYTUN M., BİLGİNER B. A., ATASOY G.  
6th International Project and Construction Management Conference (IPCMC2020), İstanbul, Turkey, İstanbul, Turkey, 12 - 14 November 2020, pp.371-381
- VII. **Evaluation of toolkits for visualizing information about performance of earthwork activities on a construction job site**  
Atasoy Özcan G., Akıncı B.  
17th International Workshop on Intelligent Computing in Engineering, EG-ICE 2010, Nottingham, United Kingdom, 30 June - 02 July 2010
- VIII. **From Smart Sustainable Cities to Smart Buildings: a Top to Bottom Approach**  
Parlak A. S., Atasoy G., Öztürk H. I., Akçamete Güngör A., Dikmen Toker İ., Tüydeş Yaman H.  
5th international Project and Construction Management Conference (IPCMC2018), Girne, Cyprus (Kktc), 16 - 18 November 2018
- IX. **Contemporary Issues in Mega Construction Projects**  
EROL H. H., DİKMEN TOKER İ., ATASOY G., BİRGÖNÜL M. T.  
5th international Project and Construction Management Conference (IPCMC 2018), Cyprus (Kktc), 16 - 18 November 2018
- X. **Categorization of Smartness in Smart Built Environments**  
Kaş S., Akçamete Güngör A., Öztürk H. I., Genel V., Atasoy G.  
5th international Project and Construction Management Conference (IPCMC2018), Girne, Cyprus (Kktc), 16 - 18 November 2018
- XI. **Strategic Plan for the Implementation and Monitoring of Performance-based Maintenance Contracting (P BMC) for Turkish Construction Sector**  
Öztürk H. I., Atasoy G., Ateş K.  
13th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, İzmir, Turkey, 12 - 14 August 2018
- XII. **Visualisation of Complexity and Risk in Mega Construction Projects**  
EROL H. H., DİKMEN TOKER İ., ATASOY G., BİRGÖNÜL M. T.  
COBRA 2018 Conference, 23 - 24 April 2018
- XIII. **Lazer Tarayıcı Uygulamalarında Planlama: Bir Vaka Çalışması**  
EROL H. H., özyurt b., BİLGİN G., ATASOY ÖZCAN G., BİRGÖNÜL M. T., DİKMEN TOKER İ.  
4. Proje ve Yapım Yönetimi Kongresi, Turkey, 3 - 05 November 2016

- XIV. **Lazer Tarayıcı Uygulamalarında Planlama Bir Vaka Çalışması**  
EROL H. H., Özyurt B., BİLGİN G., ATASOY ÖZCAN G., BİRGÖNÜL M. T., DİKMEN TOKER İ.  
4. Proje ve Yapım Yönetimi Kongresi, Eskişehir, Turkey, 3 - 05 November 2016
- XV. **Visualizing Laser Scanner Data for Bridge Inspection**  
atasoy G., tang p., zhang j., akinci b.  
International Symposium on Automation and Robotics in Construction, Bratislava, Slovakia, 25 - 27 June 2010
- XVI. **Visualizing laser scanner data for bridge inspection**  
ATASOY ÖZCAN G., Tang P., Zhang J., Akinci B.  
27th International Symposium on Automation and Robotics in Construction, ISARC 2010, Bratislava, Slovakia, 25 - 27 June 2010, vol.2010-January, pp.390-399
- XVII. **Comparative Case Study on the Use of Laser Scanners for Construction Quality Control and Progress Monitoring**  
Atasoy G., Tang P., Akinci B.  
CIB-W78, İstanbul, Turkey, 1 - 03 October 2009
- XVIII. **Unique Dashboard Needs of Construction Project Team Members**  
Atasoy G., Akinci B., Basta K.  
Fifth International Conference on Construction in 21st Century, İstanbul, Turkey, 20 - 22 May 2009
- XIX. **Using Cognitive Maps for Risk Modelling in Construction Projects**  
Dikmen Toker İ., Birgönül M. T., Atasoy G.  
CME 25, Reading, England, 16 - 18 July 2007

## Supported Projects

DİKMEN TOKER İ., ATASOY ÖZCAN G., TUBITAK Project, Mega İnşaat Projelerindeki Karmaşıklık Unsurlarının Görselleştirilmesi İçin Bilgisayar Destekli Bir Aracın Geliştirilmesi, 2018 - 2021

ATASOY ÖZCAN G., ÖZTÜRK H. İ., AKÇAMETE GÜNGÖR A., DİKMEN TOKER İ., TÜYDEŞ YAMAN H., Project Supported by Higher Education Institutions, AKILLI YAPILI ÇEVRE (AYÇ) DÖNÜŞÜM İSTERLERİNİN BELİRLENMESİ: ODTÜ YERLEŞKESİ ARAŞTIRMA PARKI VAKA ÇALIŞMASI, 2017 - 2020

## Activities in Scientific Journals

Smart and Sustainable Built Environment, Committee Member, 2020 - Continues

## Scientific Refereeing

Smart and Sustainable Built Environment, Journal Indexed in ESCI, May 2021

Journal Of Construction Engineering And Management-Asce, SCI Journal, March 2021

Journal of Construction Engineering, Management & Innovation, Other Indexed Journal, December 2020

Journal Of The Faculty Of Engineering And Architecture Of Gazi University, SCI Journal, December 2020

International Journal Of Sustainable Transportation, Journal Indexed in SSCI, November 2020

Journal Of Construction Engineering And Management-Asce, Journal Indexed in SCI-E, May 2020

Journal Of Construction Engineering And Management-Asce, SCI Journal, September 2019

Journal Of Construction Engineering And Management-Asce, Journal Indexed in SCI-E, December 2018

Journal Of Civil Engineering And Management, SCI Journal, June 2018

## Scientific Research / Working Group Memberships

Civil Engineering For Sustainable Future (Sürdürülebilir Gelecek İçin İnşaat Mühendisliği) , Middle East Technical University, Turkey, <https://avesis.metu.edu.tr/arastirma-grubu/cesustain/grup-uyeleri>, 2021 - Continues  
Proje Risk Araştırma Grubu, Middle East Technical University, Turkey, [prrg.ce.metu.edu.tr](http://prrg.ce.metu.edu.tr), 2018 - Continues

## Metrics

Publication: 32

Citation (WoS): 221

Citation (Scopus): 300

H-Index (WoS): 6

H-Index (Scopus): 6