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Personal Information

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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, İnşaat Mühendisliği Anabilim Dalı, Turkey 2015 - Continues

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, İnşaat Mühendisliği Anabilim Dalı, Turkey 2014 - 2015

Research Areas

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Identification of Contractual and Financial Dispute Causes in the Off-Site Construction Projects**
Yıldıran M. P., DEMİRDÖĞEN G.
Buildings, vol.14, no.8, 2024 (SCI-Expanded)
- II. **Evaluating the Contribution of Lean Construction to Achieving Sustainable Development Goals**
Hasan S., IŞIK Z., DEMİRDÖĞEN G.
Sustainability (Switzerland), vol.16, no.8, 2024 (SCI-Expanded)
- III. **Development of Knowledge Management Risk Framework for the Construction Industry**
DEMİRDÖĞEN G.
Buildings, vol.13, no.10, 2023 (SCI-Expanded)
- IV. **BIM-based big data analytic system for healthcare facility management**
Demirdöğen G., Işık Z., Arayıcı Y.
Journal of Building Engineering, vol.64, 2023 (SCI-Expanded)
- V. **Determination of Business Intelligence and Analytics-Based Healthcare Facility Management Key Performance Indicators**
Demirdöğen G., Işık Z., Arayıcı Y.
APPLIED SCIENCES-BASEL, vol.12, no.2, 2022 (SCI-Expanded)
- VI. **Facility management information taxonomy framework for queries in healthcare buildings**
Demirdöğen G., Işık Z., Arayıcı Y.
Journal of Building Engineering, vol.44, 2021 (SCI-Expanded)
- VII. **Lean Based Maturity Framework Integrating Value, BIM and Big Data Analytics: Evidence from AEC Industry**
DEMİRDÖĞEN G., Diren N. S., ALADAĞ H., IŞIK Z.

SUSTAINABILITY, vol.13, no.18, 2021 (SCI-Expanded)

- VIII. **Structural Equation Model of the Factors Affecting Construction Industry Innovation Success**
Demirdöğen G., Işık Z.
TEKNIK DERGI, vol.32, no.2, pp.10717-10737, 2021 (SCI-Expanded)
- IX. **Investigation of dispute factors and effects on construction projects arising from COVID-19 pandemic as a force majeure event**
ALADAĞ H., DEMİRDÖĞEN G., IŞIK Z.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.36, no.3, pp.1214-1228, 2021 (SCI-Expanded)
- X. **Lean Management Framework for Healthcare Facilities Integrating BIM, BEPS and Big Data Analytics**
Demirdöğen G., Işık Z., Arayıcı Y.
Sustainability, vol.12, no.17, pp.1-33, 2020 (SCI-Expanded)
- XI. **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, vol.30, no.3, pp.9147-9174, 2019 (SCI-Expanded)
- XII. **Environmental Scanning Approach to Assess Innovation and Technology Transfer Performance of Construction Companies**
DEMİRDÖĞEN G., IŞIK Z.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, 2018 (SCI-Expanded)
- XIII. **EFFECT OF INTERNAL CAPABILITIES ON SUCCESS OF CONSTRUCTION COMPANY INNOVATION AND TECHNOLOGY TRANSFER**
DEMİRDÖĞEN G., IŞIK Z.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.23, no.6, pp.1763-1770, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Development of a Maturity Framework for Lean Construction**
Demirdöğen G., Diren N. S., Işık Z.
International Journal of Digital Innovation in the Built Environment, vol.1, no.1, pp.1-16, 2019 (Peer-Reviewed Journal)
- II. **Building Information Modeling (BIM) and BIG Data Analytics for Construction Industry**
Demirdöğen G., Işık Z., Arayıcı Y.
International Journal of Advances in Mechanical and Civil Engineering, vol.6, no.5, pp.75-80, 2019 (Peer-Reviewed Journal)
- III. **Risk Analysis of Road Construction Projects: A Case Study from Erbil**
Darwish K. Q., Işık Z., Aladağ H., Demirdöğen G.
TAMAP Journal of Engineering, vol.2018, pp.1-12, 2018 (Peer-Reviewed Journal)
- IV. **Role of Vocational Education and Training in the Construction Industry Performance**
IŞIK Z., ALADAĞ H., DEMİRDÖĞEN G., BUDAYAN C., YILMAZ T.
International Journal of Business and Management Studies (IJBMS), vol.7, pp.1-8, 2018 (Peer-Reviewed Journal)
- V. **Building Information Modelling (BIM) Use in Turkish Construction Industry**
Aladağ H., Demirdöğen G., Işık Z.
Procedia Engineering, vol.161, no.2016, pp.174-179, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Interoperability and emerging smart technologies**
Demirdöğen G., Işık Z., Arayıcı Y., Aladağ H.
in: BIM Teaching and Learning Handbook, M. Reza Hosseini, Farzad, Ajibade A. Aibinu, Sepehr Abrishami, Editor,

Routledge, London/New York , Bristol, pp.1-22, 2021

II. Application of SWOT Analysis in Turkish Construction Industry

IŞIK Z., ALADAĞ H., DEMİRDÖĞEN G., AYGÜN Ç.

in: Proceedings of the 21st International Symposium on Advancement of Construction Management and Real Estate, Chau K, Chan I, Lu W., Webster C., Editor, Springer Nature Singapore Pte Ltd, pp.299-309, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **Game Theory Applications in Construction Management Literature**
Aladağ H., Işık Z., Demirdöğen G., Koç K.
5th international Project and Construction Management Conference (IPCMC2018), Girne, Cyprus (Kkct), 16 - 18 November 2018
- III. **Application of SWOT Analysis in Turkish Construction Industry**
IŞIK Z., ALADAĞ H., DEMİRDÖĞEN G., AYGÜN Ç.
CRIOCM 2016 (21ST International Conference On Advancement Of Construction Management And Real Estate), Hongkong, Hong Kong, 14 December 2016
- IV. **Assessment of Energy Efficiency for Retrofit vs Reconstruction Projects by Building Information Modeling**
DEMİRDÖĞEN G., IŞIK Z.
CRIOCM 2016 21ST INTERNATIONAL CONFERENCE ON ADVANCEMENT OF CONSTRUCTION MANAGEMENT AND REAL ESTATE, Hongkong, Hong Kong, 14 December 2016
- V. **Yapı Bilgi Modellemesinin Sürdürülebilir Tasarım Evrelerinde ve LEED Sertifika Sürecindeki Rolü**
Demirdöğen G., IŞIK Z.
Anadolu Üniversitesi, 01 November 2016
- VI. **Yapı Bilgi Modellemesinin Paydaş Yönetiminde Rolü**
Demirdöğen G., IŞIK Z.
Anadolu Üniversitesi, 01 November 2016
- VII. **Factors Affecting the Selection of Dispute Resolution Methods in IJVs**
ALADAĞ H., DEMİRDÖĞEN G., IŞIK Z.
12th International Congress on Advances in Civil Engineering (ACE 2016), İstanbul, Turkey, 21 September 2016, pp.186
- VIII. **Cost-Efficient Sustainable Construction**
ALADAĞ H., DEMİRDÖĞEN G., IŞIK Z.
12th International Congress on Advances in Civil Engineering (ACE 2016), İstanbul, Turkey, 21 September 2016, pp.183
- IX. **Building Information Modeling (BIM) Use in Turkish Construction Industry**
ALADAĞ H., Demirdöğen G., Işık Z.
World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium (WMCAUS), Prague, Czech Republic, 13 - 17 June 2016, vol.161, pp.174-179
- X. **Proje Yönetimi Süreçlerinde ve Bilgi Alanlarında Teknoloji Transferi ve İnovasyon**
DEMİRDÖĞEN G., IŞIK Z.
3. Proje ve Yapım Yönetimi Kongresi, Antalya, Turkey, 06 November 2014
- XI. **Proje Yönetimi Süreçlerinde Teknoloji Transferi ve İnovasyon**
Demirdöğen G.
3. Proje Yapım ve Yönetim Kongresi (PYYK 2014) Antalya, 01 November 2014, vol.1, pp.1
- XII. **Technology Transfer in Construction Industry**

Demirdöğen G.

11th International Congress on Advances in Civil Engineering (ACE 2014), İTÜ, İstanbul, 01 October 2014, vol.1, pp.1

Supported Projects

İŞİK Z., DEMİRDÖĞEN G., Project Supported by Higher Education Institutions, A Framework for Integrating Building Information Modeling and Big Data Analytics for Sustainable Energy Management in Buildings, 2019 - 2022

Demirdöğen G., Işık Z., Newton Programme Project, Yapı Bilgi Modellemesi ve Dayanıklı Konut için Retrofit ve Sürdürülebilirlik için İşbirliği: Araştırma, Uygulama ve Sosyal Inovasyon için Destek, 2015 - 2016

İŞİK Z., DEMİRDÖĞEN G., Project Supported by Higher Education Institutions, İnşaat Sektörü İçin İnovasyonel Teknoloji Transfer Modeli, 2014 - 2016

DEMİRDÖĞEN G., Project Supported by Higher Education Institutions, AN INNOVATIONAL TECHNOLOGY TRANSFER MODEL FOR THE CONSTRUCTION INDUSTRY, 2014 - 2016

Metrics

Publication: 41

Citation (WoS): 30

Citation (Scopus): 121

H-Index (WoS): 3

H-Index (Scopus): 6

Non Academic Experience

Eray Çadır

İş Bankası Teknoloji ve Operasyon Merkezi Projesi