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Publons / Web Of Science ResearcherID: B-4614-2015

ScopusID: 8682323900

Yoksis Araştırmacı ID: 23528

Eğitim Bilgileri

Doktora, Eidgenössische Technische Hochschule, ETHZ (The Federal Institute of Technology, Zürich), Institute of Structural Engineering (IBK), Department of Civil, Environmental and Geomatic Engineering (D-BAUG), İsviçre 2004 - 2010

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), Türkiye 2001 - 2003

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 1997 - 2001

Yabancı Diller

İngilizce

Yaptığı Tezler

Doktora, THE USE OF POST-EARTHQUAKE RESIDUAL DISPLACEMENTS AS A PERFORMANCE INDICATOR IN SEISMIC ASSESSMENT, Eidgenössische Technische Hochschule, ETHZ (The Federal Institute of Technology, Zürich), Department of Civil, Environmental and Geomatic Engineering (D-BAUG), Institute of Structural Engineering (IBK), 2010

Yüksek Lisans, A methodology for determination of performance based design parameters, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), 2003

Araştırma Alanları

Yapı Mühendisliği, Deprem Mühendisliği, Betonarme Yapılar

Akademik Unvanlar / Görevler

Yrd.Doç.Dr., İstanbul Teknik Üniversitesi, Afet Yönetimi Enstitüsü, 2011 - Devam Ediyor

Ücr.Öğretim Görevlisi, University of California, San Diego, Jacobs School of Engineering, Structural Engineering Department, 2018 - 2019

Araştırma Görevlisi, Eidgenössische Technische Hochschule, ETHZ (The Federal Institute of Technology, Zürich), Mühendislik Fakültesi (School Of Engineering), İnşaat, Çevre Ve Geomatik Mühendisliği Bölümü (Department Of Civil, Environmental And Geomatic Engineering, D-Baug), 2004 - 2010

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), 2002 - 2004

Akademik İdari Deneyim

İstanbul Teknik Üniversitesi, Deprem Mühendisliği Ve Afet Yönetimi Enstitüsü, 2015 - Devam Ediyor

İstanbul Teknik Üniversitesi, Deprem Mühendisliği Ve Afet Yönetimi Enstitüsü, 2011 - 2012

Verdiği Dersler

Cephe Sistemlerinin Yapısal Tasarımı, Yüksek Lisans, 2022 - 2023

ADVANCED DYNAMICS OF STRUCTURES, Yüksek Lisans, 2015 - 2016, 2014 - 2015, 2013 - 2014

ENGINEERING MATHEMATICS, Yüksek Lisans, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

SEISMIC RELIABILITY ANALYSIS OF STRUCTURES, Yüksek Lisans, 2014 - 2015, 2013 - 2014, 2012 - 2013

STRENGTH OF MATERIALS I, Lisans, 2014 - 2015

STRENGTH OF MATERIALS FOR MINING ENGINEERS, Lisans, 2013 - 2014, 2012 - 2013

Yönetilen Tezler

Yazgan U., Temel Oturmasına Maruz Kalmış Standart Altı Betonarme Çerçevelerin Sismik Riski, Yüksek Lisans, S.HUSEYNLI(Öğrenci), 2022

Yazgan U., Zemin-yapı etkileşiminin betonarme binaların deprem performansına etkisi, Doktora, Y.AVCI(Öğrenci), 2018

Yazgan U., Collapse risk assessment of reinforced concrete buildings subjected to aftershock hazard, Doktora, Z.MÜDERRİSOĞLU(Öğrenci), 2017

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A note on two alternative probabilistic methods to address parametric uncertainty in magnitude frequency distribution (MFD) logic trees (BEEE-D-22-00704)**
Akkar S., Yazgan U., Eroğlu Azak T.
Bulletin of Earthquake Engineering, cilt.22, sa.4, ss.1581-1604, 2024 (SCI-Expanded)
- II. **Critical issues in nonlinear modeling of reinforced concrete buildings: code-compliant modeling approaches and the 2015 E-defense shake table tests on a full-scale 10-story building**
Tura C., Aydın S., Yazgan U., Orakçal K., İlki A., Kabeyasawa T., Kang J.
Bulletin of Earthquake Engineering, cilt.22, sa.2, ss.329-364, 2024 (SCI-Expanded)
- III. **Probabilistic estimation of inelastic displacement demands in soil-structure interaction systems on cohesive soils**
Avci Y., Yazgan U.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.51, sa.1, ss.22-43, 2022 (SCI-Expanded)
- IV. **Impact of rupture-plane uncertainty on earthquake hazard: observations from the 30 october 2020 Samos earthquake**
Akkar S., Caglar N. M., Kale O., Yazgan U., SANDIKKAYA M. A.
BULLETIN OF EARTHQUAKE ENGINEERING, cilt.19, sa.7, ss.2739-2761, 2021 (SCI-Expanded)
- V. **The effect of finite element modeling assumptions on collapse capacity of an RC frame building**

- Ghaemian S., Muderrisoglu Z., Yazgan U.
EARTHQUAKES AND STRUCTURES, cilt.18, sa.5, ss.555-565, 2020 (SCI-Expanded)
- VI. **A practical probabilistic earthquake hazard analysis tool: case study Marmara region**
Sianko I., Ozdemir Z., Khoshkholghi S., Garcia R., Hajirasouliha I., Yazgan U., Pilakoutas K.
BULLETIN OF EARTHQUAKE ENGINEERING, cilt.18, sa.6, ss.2523-2555, 2020 (SCI-Expanded)
- VII. **Development of an aftershock occurrence model calibrated for Turkey and the resulting likelihoods**
Muderrisoglu Z., Yazgan U.
EARTHQUAKE ENGINEERING AND ENGINEERING VIBRATION, cilt.19, sa.1, ss.149-160, 2020 (SCI-Expanded)
- VIII. **Maximum inelastic displacement ratio for systems with soil-structure interaction**
Avci Y., Yazgan U.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, cilt.34, sa.3, ss.1528-1537, 2019 (SCI-Expanded)
- IX. **Aftershock Hazard Assessment Based on Utilization of Observed Main Shock Demand**
Muderrisoglu Z., Yazgan U.
EARTHQUAKE SPECTRA, cilt.34, sa.2, ss.569-586, 2018 (SCI-Expanded)
- X. **Field testing of substandard RC buildings through forced vibration tests**
Goksu Ç., İNCİ P., DEMİR U., Yazgan U., İLKİ A.
BULLETIN OF EARTHQUAKE ENGINEERING, cilt.15, sa.8, ss.3245-3263, 2017 (SCI-Expanded)
- XI. **Seismic performance of buildings during 2011 Van earthquakes and rebuilding efforts**
Yazgan U., OYGUC R. A., ERGUVEN M. E., CELEP Z.
EARTHQUAKE ENGINEERING AND ENGINEERING VIBRATION, cilt.15, sa.3, ss.591-606, 2016 (SCI-Expanded)
- XII. **Empirical seismic fragility assessment with explicit modeling of spatial ground motion variability**
Yazgan U.
ENGINEERING STRUCTURES, cilt.100, ss.479-489, 2015 (SCI-Expanded)
- XIII. **Discussion of "Simulating Maximum and Residual Displacements of RC Structures: I. Accuracy"**
Yazgan U., Dazio A.
EARTHQUAKE SPECTRA, cilt.29, sa.2, ss.679-682, 2013 (SCI-Expanded)
- XIV. **Post-earthquake damage assessment using residual displacements**
Yazgan U., DAZIO A.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.41, sa.8, ss.1257-1276, 2012 (SCI-Expanded)
- XV. **Simulating Maximum and Residual Displacements of RC Structures: I. Accuracy**
Yazgan U., DAZIO A.
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- XVI. **Simulating Maximum and Residual Displacements of RC Structures: II. Sensitivity**
Yazgan U., DAZIO A.
EARTHQUAKE SPECTRA, cilt.27, sa.4, ss.1203-1218, 2011 (SCI-Expanded)
- XVII. **Enhancement of the national strong-motion network in Turkey**
Gülkan P., ÇEKEN U., ÇOLAKOĞLU Z., UĞRAŞ T., KURU T., APAK A., Anderson J., Sucuoğlu H., ÇELEBİ M., Akkar D., et al.
Seismological Research Letters, cilt.78, sa.4, ss.429-438, 2007 (SCI-Expanded)
- XVIII. **A screening procedure for seismic risk assessment in urban building stocks**
Sucuoğlu H., Yazgan U., YAKUT A.
EARTHQUAKE SPECTRA, cilt.23, sa.2, ss.441-458, 2007 (SCI-Expanded)
- XIX. **Drift estimates in frame buildings subjected to near-fault ground motions**
Akkar S., Yazgan U., GÜLKAN P.
JOURNAL OF STRUCTURAL ENGINEERING-ASCE, cilt.131, sa.7, ss.1014-1024, 2005 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Crime risk assessment in residential buildings: Openings**

Agarbatı G., D'Orazio M., Yazgan U.

International Journal for Housing Science and Its Applications, cilt.40, sa.2, ss.123-132, 2016 (Scopus)

II. Overview of the critical disaster management challenges faced during Van 2011 earthquakes

Tolon M., Yazgan U., Ural D. N., Goss K. C.

Journal of Emergency Management, cilt.12, sa.1, ss.82-96, 2014 (Scopus)

III. The use of post-earthquake residual displacements as a performance indicator in seismic assessment

Yazgan U., Dazio A.

GEORISK-ASSESSMENT AND MANAGEMENT OF RISK FOR ENGINEERED SYSTEMS AND GEOHAZARDS, cilt.5, sa.1, ss.59-76, 2011 (ESCI)

Kitap & Kitap Bölümleri

I. Post-Earthquake Risk-Based Decision Making Methodology for Turkish School Buildings

Yazgan U., Oyguc R. A.

Seismic Evaluation and Rehabilitation of Structures, Alper Ilki, Michael N. Fardis, Editör, Springer-Verlag, Amsterdam, ss.37-45, 2014

II. The use of post earthquake residual displacements as a performance indicator in seismic assessment

Yazgan U.

vdf Hochschulverlag AG, Zürich, 2010

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. Estimating Aggregate Earthquake Losses to Portfolios Using Convolution Approach

Yazgan U., Akkar S., Ülkü O.

12th National Conference on Earthquake Engineering, NCEE 2022, Utah, Amerika Birleşik Devletleri, 27 Haziran - 01 Temmuz 2022

II. Structural Damage Sensitive Content Vulnerability Modeling for Turk Reinsurance Earthquake Loss Modeling Platform

Akkar S., Yazgan U.

12th National Conference on Earthquake Engineering, NCEE 2022, Utah, Amerika Birleşik Devletleri, 27 Haziran - 01 Temmuz 2022

III. Challenges in Developing Seismic Vulnerability Models for Substandard Building Stocks in Turkey

YAZGAN U., İLKİ A., DEMİR C., Demir U., Ateş A. O., Küpçü E., Ünal G., Altınok M. A., Karakaya B., Narlıtepe F.

2nd International Workshop on Advanced Materials and Innovative Systems in Structural Engineering: Novel Researches, İstanbul, Türkiye, 20 Eylül 2019

IV. Development of a Framework for Rapid Earthquake Risk Assessment for Substandard Buildings in Turkey

İLKİ A., YAZGAN U., DEMİR C., Ateş A. O., Demir U., Küpçü E., Ünal G., Altınok M. A., Karakaya B., Narlıtepe F.

2nd International Workshop on Advanced Materials and Innovative Systems in Structural Engineering: Novel Researches, İstanbul, Türkiye, 20 Aralık 2019

V. Post-earthquake collapse safety of damaged RC buildings subjected to aftershock hazard

Muderrisoğlu Z., YAZGAN U.

Proceedings of the 11th National Conference in Earthquake Engineering, 25 - 29 Haziran 2018

VI. Post-earthquake collapse safety of damaged buildings subjected to aftershock hazard

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11th National Conference on Earthquake Engineering 2018: Integrating Science, Engineering, and Policy, NCEE 2018, California, Amerika Birleşik Devletleri, 25 - 29 Haziran 2018, cilt.12, ss.7489-7499

VII. Quantifying the value of SHM for emergency management of bridges at-risk from seismic damage

Omenzetter P., YAZGAN U., SOYÖZ S., Limongelli M.

JOINT COST TU1402 - COST TU1406 - IABSE WC1 WORKSHOP: The Value of Structural Health Monitoring for the Reliable Bridge Management, 2 - 03 Mart 2017

- VIII. **A new approach for aftershock hazard assessment that takes into account mainshock demand**
Muderrisoğlu Z., Yazgan U.
16th World Conference on Earthquake Engineering, Santiago, Şili, 9 - 13 Ocak 2017
- IX. **Quantifying the value of monitoring for post-earthquake emergency management of bridges**
Limongelli M. P., Omenzetter P., Yazgan U., Soyoz S.
39th IABSE Symposium in Vancouver 2017: Engineering the Future, Vancouver, Kanada, 21 - 23 Eylül 2017, ss.3245-3252
- X. **Effect of Modelling Assumptions on Collapse Capacity Estimation**
Muderrisoğlu Z., Ghaemian S., YAZGAN U.
12th International Conference on Advances in Civil Engineering, 21 - 23 Eylül 2016
- XI. **Quantifying the value of seismic structural health monitoring of buildings**
Omenzetter P., Limongelli M. P., Yazgan U.
8th European Workshop on Structural Health Monitoring, EWSHM 2016, Bilbao, İspanya, 5 - 08 Temmuz 2016, cilt.1, ss.510-519
- XII. **ARTÇI SARSINTI TEHLİKE ANALİZİ İÇİN YENİ BİR YAKLAŞIM**
MÜDERRİSOĞLU Z., YAZGAN U.
8. Ulusal Deprem Mühendisliği Konferansı, Türkiye, 11 - 14 Mayıs 2015
- XIII. **An improved approach for aftershock hazard assessment**
Muderrisoğlu Z., Yazgan U.
12th International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP 2012, Vancouver, Kanada, 12 - 15 Temmuz 2015
- XIV. **CRIME RISK ASSESSMENT IN RESIDENTIAL BUILDINGS OPENINGS**
AGARBATI G., DORAZIO M., YAZGAN U.
40th International Association for Housing Science World Congress, 16 - 19 Aralık 2014
- XV. **EXPLICIT MODELING OF GROUND MOTION VARIABILITY IN THE DEVELOPMENT OF FRAGILITY MODELS**
YAZGAN U.
2nd European Conference on Earthquake Engineering and Seismology, Istanbul, Turkey, 25 - 29 Ağustos 2014
- XVI. **Empirical vulnerability modeling considering geospatial ground motion variability**
Yazgan U.
11th International Conference on Structural Safety and Reliability, ICOSAR 2013, New York, Amerika Birleşik Devletleri, 16 - 20 Haziran 2013, ss.4513-4519
- XVII. **AN INTERNATIONAL COMPARISON OF THE 2011 VAN EARTHQUAKE IN THE MEANING OF DISASTER MANAGEMENT PRINCIPLES**
TOLON M., YAZGAN U., URAL D.
2013 INTERNATIONAL VAN EARTHQUAKE SYMPOSIUM, VAN, TURKEY, 23 - 27 Ekim 2013
- XVIII. **HASAR GÖREBİLİRLİK MODELLERİNİN DOĞRULANMASI İÇİN YENİ BİR YAKLAŞIM**
MÜDERRİSOĞLU Z., YAZGAN U.
2. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Türkiye, 25 - 27 Eylül 2013
- XIX. **October 23rd, 2011 Van Earthquake Preliminary Reconnaissance Report: Structural and Geotechnical Aspects of the Damage**
Yazgan U., Taşkın B., Özdemir Çağlayan P., Erken A., Celep Z., Ergüven M. E., Sezen A., Oyguc R. A., Mert Tuğsal Ü.
15th World Conference on Earthquake Engineering, Lisbon, Portekiz, 24 - 28 Eylül 2012, ss.1
- XX. **A New Approach to Building Stock Vulnerability Modeling based on Bayesian Analysis**
YAZGAN U.
15th World Conference on Earthquake Engineering, Lisbon, Portugal, 24 - 28 Eylül 2012
- XXI. **Critical aspects of finite element modeling of RC structures for seismic performance assessment**
Yazgan U., Dazio A.

- 9th US National and 10th Canadian Conference on Earthquake Engineering 2010, Including Papers from the 4th International Tsunami Symposium, Toronto, Kanada, 25 - 29 Temmuz 2010, cilt.7, ss.5835-5844
- XXII. **UTILIZATION OF RESIDUAL DISPLACEMENTS IN THE POST EARTHQUAKE ASSESSMENT**
YAZGAN U., DAZIO A.
14th World Conference on Earthquake Engineering, 12 - 17 Ekim 2008
- XXIII. **Comparison of different finite-element modeling approaches in terms of estimating the residual displacements of RC structures**
Yazgan U., Dazio A.
8th US National Conference on Earthquake Engineering 2006, San Francisco, CA, Amerika Birleşik Devletleri, 18 - 22 Nisan 2006, cilt.4, ss.2094-2103
- XXIV. **CAPABILITIES OF THE BAYESIAN PROBABILISTIC NETWORKS APPROACH FOR EARTHQUAKE RISK MANAGEMENT**
BAYRAKTARLI Y., YAZGAN U., DAZIO A., FABER M.
First European Conference on Earthquake Engineering and Seismology, Geneva, Switzerland, 3 - 08 Eylül 2006
- XXV. **Management of Earthquake Risks Using Condition Indicators**
DAZIO A., YAZGAN U.
1st International Workshop on An Earthquake Loss Estimation Program for Turkey, 1 - 02 Aralık 2005
- XXVI. **On the Application of Bayesian Probabilistic Networks for Earthquake Risk Management**
BAYRAKTARLI Y., ULKFJAER J., YAZGAN U., FABER M.
9th International Conference on Structural Safety and Reliability, Rome, Italy, 19 Haziran 2005 - 23 Haziran 2004
- XXVII. **Raised drift demands for framed buildings during near-field earthquakes**
Gulkan P., Yazgan U.
Workshop on Future Directions in Instrumentation for Strong Motion and Engineering Seismology, Kusadasi, Türkiye, 17 - 21 Mayıs 2004, cilt.58, ss.61-81
- XXVIII. **INTER STORY DRIFT REQUIREMENTS FOR NEAR FIELD EARTHQUAKES**
GÜLKAN H. P., YAZGAN U.
OECD Nuclear Energy Agency-NIED CSNI Workshop on Seismic Input Motions Incorporating Recent Geological Studies Tsukuba, Japan, 15 - 19 Kasım 2004
- XXIX. **DEFORMATION LIMITS FOR SIMPLE NON DEGRADING SYSTEMS SUBJECTED TO NEAR FAULT GROUND MOTIONS**
AKKAR D. S., YAZGAN U., GÜLKAN H. P.
13th World Conference on Earthquake Engineering, Vancouver, B.C., Canada, 1 - 06 Ağustos 2004
- XXX. **A SIMPLE PROCEDURE TO COMPUTE THE INTERSTORY DRIFT FOR FRAME TYPE STRUCTURES**
AKKAR D. S., YAZGAN U., GÜLKAN H. P.
13th World Conference on Earthquake Engineering, Vancouver, B.C., Canada, 1 - 06 Ağustos 2004
- XXXI. **An Approximate Procedure to Compute the Drift Demands on Frame Type Structures**
AKKAR D. S., YAZGAN U., GÜLKAN H. P.
Skopje Earthquake -40 Years Of European Earthquake Engineering (SE 40EEE), 26 - 29 Ağustos 2003
- XXXII. **Simple survey procedures for seismic risk assessment in urban building stocks**
SUCUOĞLU H., Yazgan U.
Workshop on Seismic Assessment and Rehabilitation of Existing Buildings, İzmir, Türkiye, 13 Mayıs 2003, cilt.29, ss.97-118

Desteklenen Projeler

Yazgan U., Diğer Ülkelerdeki Kamu Kurumları Tarafından Desteklenmiş Proje, Post-Earthquake Safety Assessment of Structures based on Joint Utilization of Vibration Sensor Data and Visual Inspection Results (Fulbright Project), 2018 - 2019

Yazgan U., Yükseköğretim Kurumları Destekli Proje, Gözleem Dayalı Deprem Hasar Görebilirlik Modellerinde Yer Hareketi Değişkenliğinin Dikkate Alınması, 2013 - 2018

Yazgan U., Yükseköğretim Kurumları Destekli Proje, Yapı Stoklarının Deprem Hasar Görebilirliğinin Modellenmesi İçin Yeni Bir Yöntem, 2012 - 2018
Yazgan U., TÜBİTAK Projesi, Depremde Hasar Görmüş Az Katlı Betonarme Çerçeve Binaların Artçı Sarsıntı Etkisiyle Göçme Riskinin Derecelendirilmesi, 2014 - 2017
Yazgan U., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Mevcut Binalarda Tam Ölçekli Deneylerle Deprem Performansının Saptanması, 2013 - 2014

Metrikler

Yayın: 60
Atıf (WoS): 397
Atıf (Scopus): 481
H-İndeks (WoS): 9
H-İndeks (Scopus): 9

Ödüller

Yazgan U., ETH Zurich Silver Medal, Eth Zurich, Mart 2010

Akademi Dışı Deneyim

Şirket, Swiss Reinsurance Co., Property & Casualty
Swiss Reinsurance Company, Zürih, İsviçre