

## Asst. Prof. HABİB CEM YENİDOĞAN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: GSI-4965-2022

ScopusID: 35977207600

Yoksis Researcher ID: 147912

### Education Information

Doctorate, Bogazici University, Kandilli Observatory And Earthquake Research Institute, Department Of Earthquake Engineering, Turkey 2007 - 2014

Postgraduate, Bogazici University, Kandilli Observatory And Earthquake Research Institute, Department Of Earthquake Engineering, Turkey 2003 - 2007

Undergraduate, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey 1999 - 2003

### Research Areas

Buildings (industrial, commercial and public), Structural Engineering, Timber Structures, Performance of Constructed Facilities, Earthquake Engineering, Repair and Strengthening in Buildings

### Academic and Administrative Experience

Head of Department, Bahcesehir University, Mühendislik ve Doğa Bilimleri, İnşaat Mühendisliği, 2021 - 2023

### Courses

Reinforced Concrete Structural Design, Undergraduate, 2023 - 2024

Structural Dynamics, Undergraduate, 2023 - 2024

Earthquake Engineering, Doctorate, 2023 - 2024

Advanced Structural Dynamics, Doctorate, 2023 - 2024

Structural Analysis-2, Undergraduate, 2023 - 2024

Structural Analysis-1, Undergraduate, 2023 - 2024, 2022 - 2023

Graduation Thesis, Undergraduate, 2022 - 2023

Computer Applications in Structural Engineering, Undergraduate, 2022 - 2023

## Jury Memberships

Doctoral Examination, Doctoral Examination, Özyeğin Üniversitesi, January, 2024

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

- I. **6 Şubat 2023 Depremleri ve Saha Gözlemlerine Dayalı Bina Hasarları Hakkında Ön Değerlendirme**  
Yenidoğan H. C.  
Turkish Journal of Civil Engineering, vol.35, no.5, pp.75-113, 2024 (SCI-Expanded)
- II. **Full-scale shake table tests of P&B type of Japanese three-story wood dwellings for the collapse characterization**  
Yenidogan C., Nishi R., Uwadan S., Nagae T., Isoda H., Tsuchimoto T., Inoue T., Kajiwara K.  
Soil Dynamics and Earthquake Engineering, vol.150, 2021 (SCI-Expanded)
- III. **Full-scale cyclic test of a Japanese post and beam wood shearwall assembly**  
Yenidogan C., Nishi R., Nagae T., Inoue T., Kajiwara K.  
Bulletin of Earthquake Engineering, vol.18, no.10, pp.4985-5008, 2020 (SCI-Expanded)
- IV. **Shake table test of a full-scale four-story reinforced concrete structure and numerical representation of overall response with modified IMK model**  
Yenidogan C., Yokoyama R., Nagae T., Tahara K., Tosauchi Y., Kajiwara K., Ghannoum W.  
Bulletin of Earthquake Engineering, vol.16, no.5, pp.2087-2118, 2018 (SCI-Expanded)
- V. **A comparative evaluation of design provisions for seismically isolated buildings**  
Yenidogan C., Erdik M.  
Soil Dynamics and Earthquake Engineering, vol.90, pp.265-286, 2016 (SCI-Expanded)
- VI. **Field evidence and numerical investigation of the Mw = 7.1 October 23 Van, Tabanlı and the Mw > 5.7 November earthquakes of 2011**  
Di Sarno L., Yenidogan C., Erdik M.  
Bulletin of Earthquake Engineering, vol.11, no.1, pp.313-346, 2013 (SCI-Expanded)
- VII. **ELER software - A new tool for urban earthquake loss assessment**  
Hancılar U., Tuzun C., Yenidogan C., Erdik M.  
Natural Hazards and Earth System Science, vol.10, no.12, pp.2677-2696, 2010 (SCI-Expanded)
- VIII. **Rapid earthquake hazard and loss assessment for Euro-Mediterranean region**  
Erdik M., Sesetyan K., Demircioglu M., Hancılar U., Zulfikar C., Cakti E., Kamer Y., Yenidogan C., Tuzun C., Cagnan Z., et al.  
Acta Geophysica, vol.58, no.5, pp.855-892, 2010 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Deprem Yalıtımlı ve Ankastre Temelli Betonarme Yapıların Performansının TBDY-2018 Kapsamında Kıyaslamalı Olarak Değerlendirmesi**  
YENİDOĞAN H. C.  
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.15, no.3, pp.767-781, 2024 (Peer-Reviewed Journal)
- II. **Comprehensive wood dwelling tests for Post-and-Beam and Shear-Wall structures reflecting foundation boundaries**  
Takaya K., Ota K., Yenidogan C., Takahashi T., Yamada S., Kashiwa H., Kawamata Y., Hayashi K., Nagae T.  
EARTHQUAKE ENGINEERING AND RESILIENCE, vol.3, no.1, pp.5-31, 2024 (Scopus)
- III. **Karma Deprem Yalıtım Sistemlerinin Deneysel Performans Değerlendirmesi**  
Yenidoğan H. C.  
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.23, no.69, pp.767-779, 2021 (Peer-Reviewed Journal)
- IV. **Earthquake-Resilient Design of Seismically Isolated Buildings: A Review of Technology**

Yenidoğan H. C.  
VIBRATION, vol.4, pp.602-647, 2021 (ESCI)

## Books

- I. **Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures -18th World Conference on Seismic Isolation (18WCSI) - Volume 2**  
Sigaher A. N. (Editor), Sütçü F. (Editor), Yenidoğan H. C. (Editor)  
Springer Nature, Zürich, 2024
- II. **Proceedings of the 7th International Conference on Earthquake Engineering and Seismology 7ICEES 2023—Volume 1**  
Uçkan M. E. (Editor), Akgün H. (Editor), Gök E. (Editor), Yenidoğan H. C. (Editor)  
Springer Nature, Zürich, 2024
- III. **Seismic Performance of Base-Isolated and Conventional Hospital Buildings in the February 6, 2023, Earthquakes**  
Yenidoğan H. C.  
in: Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures (WCSI 2023), Bahadır Sadan, Cuneyt Tuzun, Mustafa Erdik, Editor, Springer Nature, Zürich, pp.766-777, 2024

## Refereed Congress / Symposium Publications in Proceedings

- I. **Seismic performance of SI hospital buildings during the 2023 Kahramanmaras Earthquakes:Field survey and rapid quantification**  
Yenidoğan H. C.  
15th General Assembly of Asian Seismological Commission, Antalya, Turkey, 3 - 07 November 2024, pp.1
- II. **Seismic performance assessment of surrogate models in extreme loading of the 2023 Kahramanmaras earthquakes**  
Yenidoğan H. C.  
15th General Assembly of Asian Seismological Commission, Antalya, Turkey, 3 - 07 November 2024, no.8701, pp.1
- III. **Seismic Performance of Base-Isolated and Conventional Hospital Buildings in the February 6, 2023, Earthquakes**  
Yenidoğan H. C.  
18th World Conference on Seismic Isolation(18WCSI), Antalya, Turkey, 3 - 07 November 2023, vol.1, pp.766-777
- IV. **Hospital Damage and Functional Impact Survey After The 2023 Kahramanmaras Turkey Earthquake Sequence**  
Kurata M., Yenidoğan H. C., Fukui H., Kobayasi H., Hisada Y., Nagae T.  
18th World Conference on Earthquake Engineering, Milan, Italy, 30 June - 05 July 2024, vol.1, no.3, pp.1-12
- V. **February 6, 2023, Earthquakes: Preliminary Findings From Damage Surveys Of Buildings**  
Yenidoğan H. C., Kurata M., Nagae T., Hisada Y., Fukui H., Kobayasi H.  
18th World Conference on Earthquake Engineering, Milan, Italy, 30 June - 05 July 2024, vol.1, no.2, pp.1-12
- VI. **Near-Fault Strong Motion, Surface Rupture and Building Damage by The 2023 Kahramanmaras Earthquake**  
Hisada Y., Tanaka S., Kurata M., Yenidoğan H. C., Fukui H., Kobayashi H., Nagae T.  
18th World Conference on Earthquake Engineering, Milan, Italy, 30 June - 05 July 2024, vol.1, no.4, pp.1-10
- VII. **Comprehensive Seismic Response Tests Towards Resilient Residential Buildings and PBEE**  
Nagae T., Yenidoğan H. C.  
WCEE2024 - 18th World Conference on Earthquake Engineering, Milan, Italy, 30 June - 05 July 2024, vol.1, no.1, pp.1-9
- VIII. **Şubat 2023 Depremlerinin Bölgede Oluşturduğu Etkiler ve Yapay Zeka ile Afet Yönetim Planlaması**

Doğan U., Yüzer N., Acar U., Akbaba M. F., Akbulut M. T., Akgün C., Akın O., Akkaya H. C., Akpınar B., Aktaş Z., et al. Türkiye Ulusal Jeodezi Komisyonu (TUJK) XXII. Sempozyumu 2023, Trabzon, Turkey, 29 November - 01 December 2023, pp.5-6

- IX. **Full-Scale Testing of a Two-Story PB Shearwall Assembly Under Dynamic Loading Test Protocol.**  
YENİDOĞAN H. C., Nishi R., Uwadan S., Nagae T., Takehiro T., Inoue T., Kajiwara K.  
17th World Conference on Earthquake Engineering, 17WCEE, Sendai, Japan, 27 September - 02 October 2021
- X. **Seismic Performance Evaluation of A Base Isolated PB Structure Through Full-Scale Shake Table Tests**  
YENİDOĞAN H. C., Takehiro T., Nagae T., Inoue T.  
7th World Conference on Earthquake Engineering, 17WCEE, Sendai, Japan, 27 September - 02 October 2021
- XI. **The 2019 full-scale shake table test program of wood dwellings**  
Nagae T., Uwadan S., YENİDOĞAN H. C., Yamada S., Kashiwa H., Hayashi K., Takahashi T., Inoue T.  
17th World Conference on Earthquake Engineering, 17WCEE, Sendai, Japan, 27 September - 02 October 2021
- XII. **Stiffness, ultimate strength capacity and cyclic loading deterioration characteristics of two different wood-structure dwellings following the current Japanese practice**  
Takahashi T., Uwadan S., Nagae T., YENİDOĞAN H. C., Yamada S., Kashiwa H., Hayashi K., Inoue T.  
17th World Conference on Earthquake Engineering, 17WCEE, Sendai, Japan, 27 September - 02 October 2021
- XIII. **Comparative Evaluation of Trilinear Isolation Systems for the Same Performance Objectives**  
Yenidoğan H. C., Erdik M. Ö., Jones L. R.  
16th European Earthquake Engineering Conference, Thessaloniki, Greece, 18 - 21 June 2018, vol.1, no.2, pp.1-12
- XIV. **Performance Assessment of a four-story RC Structure Through Full-Scale Tests and Numerical Analysis**  
Yenidoğan H. C., Yokoyama R., Nagae T., Kajiwara K., Ibarra L.  
16th European Conference on Earthquake Engineering, Thessaloniki, Greece, 18 - 21 June 2018, vol.1, no.1, pp.1-12
- XV. **An Overview of Equivalent Lateral Force Procedure for Seismically Isolated Buildings**  
YENİDOĞAN H. C., Erdik M.  
14th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures, San Diego, United States Of America, 7 - 09 September 2015
- XVI. **Effects of Near-field Earthquakes on Seismically Isolated Bridges**  
YENİDOĞAN H. C., Erdik M.  
13th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures-commemorating JSSI 20th Anniversary-September, Sendai, Japan, 24 September 2013 - 27 September 2015
- XVII. **Seismic analysis and retrofitting of an existing RC highway bridge: investigation through pseudo-dynamic**  
Yenidoğan H. C.  
15th World Conference on Earthquake Engineering, Lisbon, Portugal, 24 - 28 September 2012, vol.1, pp.1-10
- XVIII. **Seismic isolation of electrical equipment "Seismic Table Simulation"**  
Yenidoğan H. C.  
15th World Conference of Earthquake Engineering, Lisbon, Portugal, 24 - 28 September 2012, vol.1, pp.1-10
- XIX. **Near field ground motion synthesis for Gemlik region, Turkey based on scenario earthquakes**  
Tanircan G., Yenidoğan H. C., Savas N.  
9th US National and 10th Canadian Conference on Earthquake Engineering 2010, Including Papers from the 4th International Tsunami Symposium, Toronto, Canada, 25 - 29 July 2010, vol.4, pp.3261-3270
- XX. **Seismic Isolation Applications and Current Research Practice in Turkey**  
UÇKAN M. E., YENİDOĞAN H. C., Tüzün C., Erdik M.  
Structural Engineers World Congress, Bangalore, 2 - 07 July 2007

## **Memberships / Tasks in Scientific Organizations**

Turkish Association for Seismic Isolation, Member, 2023 - Continues, Turkey  
the Anti-Seismic Systems International Society, Member, 2023 - Continues, United States Of America  
Architectural Institute of Japan, Member, 2015 - Continues, Japan  
Turkish Chamber of Civil Engineers, Member, 2003 - Continues, Turkey

### **Scientific Refereeing**

EARTHQUAKE ENGINEERING AND STRUCTURAL DYNAMICS, Journal Indexed in SSCI, October 2024  
EARTHQUAKE ENGINEERING AND STRUCTURAL DYNAMICS, SCI Journal, April 2024  
Turkish Journal of Civil Engineering, SCI Journal, June 2023  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, January 2014  
BULLETIN OF EARTHQUAKE ENGINEERING, SCI Journal, January 2014

### **Tasks In Event Organizations**

Yenidoğan H. C., 15th General Assembly of Asian Seismological Commission, Scientific Congress, Antalya, Turkey, Kasım 2024  
Yenidoğan H. C., 15th General Assembly of Asian Seismological Commission-ASC2024, Scientific Congress, Antalya, Turkey, Kasım 2024  
Yenidoğan H. C., 7th International Conference on Earthquake Engineering and Seismology (7ICEES), Scientific Congress, Antalya, Turkey, Kasım 2023  
Yenidoğan H. C., The 18th World Conference on Seismic Isolation, Energy Dissipation, and Active Vibration Control of Structures (18WCSI), Scientific Congress, Antalya, Turkey, Kasım 2023

### **Congress and Symposium Activities**

Canadian Conference on Earthquake Engineering, Invited Speaker, Vancouver, Canada, 2023