

## EK-3

### ÖZGEÇMİŞ

1. **Adı Soyadı** : Cem Yenidoğan
2. **Doğum Tarihi** : 11.05.1980
3. **Unvanı** : Dr. Öğretim Üyesi
4. **Öğrenim Durumu** : Doktora
5. **Çalıştığı Kurum** : Bahçeşehir Üniversitesi

Derece	Alan	Üniversite	Yıl
Lisans	İnşaat Mühendisliği	Yıldız Teknik Üniversitesi	2003
Y. Lisans	Deprem Mühendisliği	Boğaziçi Üniversitesi	2007
Doktora	Deprem Mühendisliği	Boğaziçi Üniversitesi	2014

## 7. Yayınlar

### 7.1. Uluslararası hakemli dergilerde yayınlanan makaleler (SCI,SSCI,Arts and Humanities)

- **Cem Yenidogan**, Ryota Nishi, Takuya Nagae, Takahiro Inoue, Koichi Kajiwara, 2020, " Full-Scale Cyclic Test of a Japanese Post and Beam Wood Shearwall Assembly." *Bulletin of Earthquake Engineering* (Accepted Paper).
- **Cem Yenidogan**, Ryo Yokoyama, Takuya Nagae, Kenichi Tahara, Yusuke Tosauchi, Koichi Kajiwara, Wassim Ghannoum, 2018, "Shake table test of a full-scale four-story reinforced concrete structure and numerical representation of overall response with modified IMK model", Springer, *Bulletin of Earthquake Engineering*, DOI 10.1007/s10518-017-0261-0.
- **Cem Yenidogan**, Mustafa Erdik, "A Comparative Evaluation Of Design Provisions For Seismically Isolated Buildings" (*Journal of Soil Dynamics and Earthquake Engineering*, 2016.
- Luigi Di Sarno, **Cem Yenidogan**, Mustafa Erdik, 2013, "Field evidence and numerical investigation of the Mw = 7.1 October 23 Van, Tabanlı and the MW > 5.7 November earthquakes of 2011", *Bulletin of Earthquake Engineering*, 11:313-346
- Hancilar, U., Tuzun, **C., Yenidogan**, C., and Erdik, M. "ELER software – a new tool for urban earthquake loss assessment", *Natural Hazards Earth System. Sci.*, 10, 2677-2696, doi: 10.5194/nhess-10-2677-2010, 2010.
- Erdik, M., Sesetyan, K., Demircioglu, M.B., Hancilar, U., Zulfikar, C., Durukal, E., Kamer, Y., **Yenidogan, C.**, Tuzun, C., Cagnan, Z., Harmandar, E., (2010), "Rapid Earthquake Hazard and Loss Assessment for Euro-Mediterranean Region", *Acta Geophysica*, vol.58, no.5, pp: 855 -892

### 7.2. Uluslararası diğer dergilerde yayınlanan makaleler

- Deng Xuan, Constantin Pavel, Shiang-Jung Wang, Raul Alvaraz Medel, Vladimir Smirnov, **Cem Yenidogan**, Massimo Forni, Ian Aiken, Recent Information on Seismically Isolated Buildings in the World , *Journal of Japanese Society of Seismic Isolation "MENSIN"*, May, 2016.
- **Cem Yenidogan**, Mustafa Erdik, 2014, " The State of Art in Seismic Isolation and Energy Dissipation Applications in Turkey", *The Japan Society of Seismic Isolation, Menshin* (83), 49-59, 2014-02.

### 7.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

- **C. Yenidogan**, R. Nishi S. Uwadan, T. Nagae, T. Takahashi, T. Inoue, K. Kajiwara (2020): Full-Scale Testing of a Two-Story P&B Shearwall Assembly Under Dynamic Loading Test Protocol. 17th World Conference on Earthquake Engineering, 17WCEE, Paper N° C003236.
- **C. Yenidogan**, T. Takahashi, T. Nagae, T. Inoue, (2020): Seismic Performance Evaluation of A Base Isolated P&B Structure Through Full-Scale Shake Table Tests. 17th World Conference on Earthquake Engineering, 17WCEE, Paper N° C004350.
- T. Nagae, S. Uwadan, **C. Yenidogan**, S. Yamada, H. Kashiwa, K. Hayashi, T. Takahashi, T. Inoue (2020): The 2019 full-scale shake table test program of wood dwellings. 17th World Conference on Earthquake Engineering, 17WCEE, Paper N° C002274.
- T. Nagae, S. Uwadan, K. Takaya, **C. Yenidogan**, S. Yamada, H. Kashiwa, K. Hayashi, T. Takahashi, T. Inoue (2020): Sliding-rocking combined actions at base foundation influencing global and local deformations of upper wood structure. *17th World Conference on Earthquake Engineering, 17WCEE*, Paper N° C002277
- T. Takahashi, S. Uwadan, T. Nagae, **C. Yenidogan**, S. Yamada, H. Kashiwa, K. Hayashi, T. Inoue (2020): Stiffness, ultimate strength capacity and cyclic loading deterioration characteristics of two different wood-structure dwellings following the current Japanese practice. *17th World Conference on Earthquake Engineering, 17WCEE*, Paper N° C002285
- **Cem Yenidogan**, 長江拓也, 西峻汰, 高橋武宏, "地中配管設備等の非構造部材を含む3階建て住宅の機能を検証するE-ディフェンス実験(首都圏レジリエンスプロジェクト) その5. 下層2層外構の面切り出し実験(2018.1)と数値解析モデル", AIJ Conference, 2019
- **Cem Yenidogan**, Ryo Yokoyama, Takuya Nagae, Koichi Kajiwara, Luis Ibarra, "Performance Assessment of a Four-Story RC Structure Through Full-Scale Tests and Numerical Analysis", 16th European Conference on Earthquake Engineering, Thessaloniki, Greece, June 18-21, 2018
- **Cem Yenidogan**, Mustafa Erdik, Lindsay R. Jones, "Comparative Evaluation of Trilinear Isolation Systems for the Same Performance Objectives", 16th European Conference on Earthquake Engineering, Thessaloniki, Greece, June 18-21, 2018
- **Cem Yenidogan** and Mustafa Erdik, "Overview of Seismic Isolation systems from a Perspective of Performance-Based Design Procedures", International Workshop on Performance-Based Seismic Design of Structures", 13-15 October, 2017, Shanghai, China (Keynote Speech)
- Withana Vethma, **Cem Yenidogan**, Takuya Nagae, Yusuke Tosauchi, Kenichi Tahara, Koichi Kajiwara, "Numerical Analysis Studies of a Full-Scale Four-Story Reinforced Concrete Test Structure", AIJ Conference, 2018
- 横山遼, 長江拓也, **Cem YENIDOGAN**, "田原健一, 土佐内優介, 鉄筋コンクリート造骨組の大変形時弾塑性応答性状に関する数値解析モデルの再現性 (Ibarra-Medina-Krawinkler Model)", AIJ Conference, 2017
- **Cem Yenidogan**, Mustafa Erdik, "An Overview of Equivalent Lateral Force Procedure for Seismically Isolated Buildings", 14th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures, September 2015 San Diego, US
- **Cem Yenidogan**, Mustafa Erdik, "The Performance Assessment of Seismically Isolated Bridges in Near-Fault Regions", Special Session, -Earthquake issues associated with long-span bridges", In Proceedings of the 2nd European Conference on Earthquake Engineering and Seismology (2ECEES). Istanbul, Turkey. 2014.
- **Cem Yenidogan**, Mustafa Erdik, "Effects of Near-field Earthquakes on Seismically Isolated Bridges", 13th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures-commemorating JSSI 20th Anniversary-September 24-27, 2013 Sendai, Japan
- **Cem Yenidogan**, Eren Uckan, Mustafa Erdik, "Shake Table Tests of a Passive-Hybrid Isolation System", Second Conference on Smart Monitoring Assessment and Rehabilitation of Civil Structures, 9-11, September 2013, Istanbul, Turkey
- **C. Yenidogan**, M.Erdik, F. Paolacci and S. Alessandri, "The Selection of Earthquake Records for Pseudo Dynamic Tests of an old Highway Bridge", Second Conference on Smart Monitoring Assessment and Rehabilitation of Civil Structures, 9-11 September, 2013, Istanbul, Turkey
- Paolacci, F., Giannini, R., Alessandri, S., Di Sarno, L., Erdik, M., **Yenidogan, C.**, Ceravolo, R., Taucer, F. "Pseudo-Dynamic Testing of an old Highway Bridge with Plain Steel Bars- Part-I :Assessment of the as-built configuration", Second Conference on Smart Monitoring Assessment and Rehabilitation of Civil Structures, 9-11 September, 2013, Istanbul, Turkey.
- K. Oikonomou, M. C. Constantinou, A. M. Reinhorn, **C. Yenidogan** "Seismic Isolation of Electrical Equipment - Seismic Table Simulation", 15th Earthquake Engineering World Conference 2012, Lisbon
- **C. Yenidogan**, M. Erdik, M. Constantinou, "Effects of Near-Field Earthquakes on Seismically Isolated Bridges under Bi-Directional Loading", 15th Earthquake Engineering World Conference 2012, Lisbon.

- Fabrizio Paolacci, Renato Giannini, Silvia Alessandri, Luigi Di Sarno, Gaetano Della Corte, Raffaele Derisi, Mustafa Erdik, **Cem Yenidogan**, Agostino Marioni, Mauro Sartori, Fabio Taucer, Pierre Pegon, Rosario Ceravolo, "Seismic analysis and retrofitting of an existing R.C. highway bridge: investigation through pseudo-dynamic tests" 15th Earthquake Engineering World Conference 2012, Lisbon.
- Tanircan G., **Yenidogan C.**, Savas N., "Near Field Ground Motion Synthesis for Yalova-Bursa Region, Turkey Based on Scenario Earthquakes", 2010 9th US National and 10th Canadian Conference on Earthquake Engineering.
- C.Tuzun, C.Zulfikar, **C.Yenidogan**, U.Hancilar, M.E. Akdogan and M.Erdik "Parametric Evaluation of Seismic Retrofitting Techniques Applied to The Public School Buildings In Istanbul", 2010 ATC&SEI Conference On Improving The Seismic Performance of Existing Buildings and Other Structures.
- Hancilar U., Kamer Y., Abdülhamitbilal E., **Yenidogan C.**, Tuzun C., Durukal E., Erdik M., Şeşetyan K., Zülfikar C., Demircioğlu B.M., "Urban Earthquake Shaking and Loss Estimation by ELER", Poster, EUROPEAN GEOSCIENCES UNION GENERAL ASSEMBLY 2009 VIENNA, AUSTRIA, 19-24 APRIL 2009.
- **Yenidogan C.**, Uckan E., Seismic Performance of a Base Isolated Structure by Shake Table Tests, AIP Conf. Proc. -- July 8, 2008 -- Volume 1020, pp. 1493-1502 2008 SEISMIC ENGINEERING CONFERENCE: Commemorating the 1908 Messina and Reggio Calabria Earthquake; Issue Date: 8 July 2008.
- Eren Uckan, **Cem Yenidogan**, Cüneyt Tüzün, Mustafa Erdik; "Seismic Isolation Applications and Current Research Practice in Turkey", Structural Engineers World Congress, Bangalore, India, November 2-7, 2007
- **Yenidogan C.**, Uckan E., Shake Table Tests of a ¼ Scaled Mass Concentric Three Storey Steel Structure Isolated by a Hybrid Passive Control System 10th World Conference on Seismic Isolation, Energy Dissipation and Active Vibrations Control of Structures, Istanbul, Turkey, May 28-31, 2007.

### 7.7. Diğer yayınlar

- **Cem Yenidogan**, "Near Real-Time Earthquake Risk Reduction Strategies and Current Trends in Earthquake Disaster Management Activities", REAKT Project, Final Report, July, 2016
- **Cem Yenidogan**, Can Zulfikar, Mustafa Erdik, "Time-dependent fragility curves for critical transportation system components (bridges and tunnels)", REAKT Project, WP5 Final Report, 2014
- Assessment of the seismic vulnerability of an old RC viaduct with frame piers and study of the effectiveness of base isolation through PsD testing (RETRO). SERIES Transnational Access report (<https://ec.europa.eu/jrc/en/publication/eur-scientific-and-technical-research-reports/assessment-seismic-vulnerability-old-rc-viaduct-frame-piers-and-study-effectiveness-base>)
- Di Sarno, L., Erdik, M., Moroni, **Yenidogan, C.** (2012), The Mw=7.2 October 23 Van, Tabanlı and the ML=5.6 November earthquakes of 2011: preliminary report, V1.1 - <http://www.reluis.it>
- Alessandri S., Corritore D., De Risi R., Di Sarno L., Mohamad A., Paolacci F., **Yenidogan C.** "Numerical simulation of the seismic response of the Rio-Torto Viaduct for the PsD test campaign", RETRO Project Report-2,
- Mine B. Demircioglu, Mustafa Erdik, Ufuk Hancilar, Ebru Harmandar, Yaver Kamer, Karin Sesetyan, Cüneyt Tuzun, **Cem Yenidogan**, A.Can Zulfikar, Network of Research Infrastructures for European Seismology(NERIES), Earthquake Loss Estimation Routine ELER v3.0 Technical Manual(2010)
- Mine B. Demircioglu, Mustafa Erdik, Ufuk Hancilar, Ebru Harmandar, Yaver Kamer, Karin Sesetyan, Cüneyt Tuzun, **Cem Yenidogan**, A.Can Zulfikar, Network of Research Infrastructures for European Seismology(NERIES), Earthquake Loss Estimation Routine ELER v3.0 User Manual(2010)
- More than 30 consultancy project reports have been conducted considering the structural analysis and seismic hazard assessment studies of critical structures and infrastructures (e.g., Akkuyu Nuclear Power Plant, Sabiha Gokcen International Airport, Seismically Isolated Integrated Health Care Facilities, Dam projects)

## 8. Projeler

- 2017-2022 Nagoya University Senior Research Associate and Project participant of Earthquake Resilience of Tokyo Metropolitan Project funded by Ministry of Education, Science Sports and Culture (Current Position).
- Participant of US-JAPAN Collaboration Work Group 2019-2022

- 2017-2019 JSPS Postdoctoral Standard Fellowship for Professors and Early Career Researchers
- 2013-2016 SATREPS (Science and Technology Research Partnership for Sustainable Development, Turkey-Japan)-MARDIM Project, Group 3-Subtask Member for the Performance Assessment and Earthquake Damage Prediction.
- 2014-2016 Senior Research Associate, Bogazici University, Kandilli Observatory and Earthquake Research Inst., Earthquake Engineering Department
- 2012-2014 REAKT: Strategies and Tools for Real Time Earthquake Risk Reduction: WP-5 Activities-Time Dependent Vulnerability of Bridges European Union FP7 Framework Programme
- 2008-2014 Research Assistant, Bogazici University, Kandilli Observatory and Earthquake Research Inst., Earthquake Engineering Department.
- 2013-2014 DASK (Development of Real time spectral based data preparation for the development of Shakemaps for the compulsory earthquake insurance system in Turkey)
- 2013-Member of Reconnaissance team in the Aftermath studies of Mw 7.1 Van Tabanlı Earthquake-KOERI-RELUIS-DPC (Department of Civil Protection-Italy)
- 2011 Visiting Scholar, University at Buffalo (UB), The State University of New York, 2011-MCEER Thrust Area 1 (Infrastructure Systems and Public Policy), Bonneville Power Administration (Contract No. 00037794) and the California Energy Commission (Contract No. TRP-08-03), The performance assessment studies of seismically isolated High Voltage Transformers and Bushings
- 2010-2013 Seismic Engineering Research Infrastructures for European Synergies (SERIES)-Transnational Access Use-RETRO Project (European Union Project)
- 2008-2010 European Commission Project, FP6, Network of Research Infrastructures for European Seismology (NERIES), ELER-Computer Code Development of Spectral Based vulnerability analyses (Level2) and integration of Level2 with level0 and Level1 analyses
- Granted Researcher, Granted by The Scientific and Technological Research Council of Turkey, TUBITAK under the Project titled "Monitoring and Modeling Local Site Response During Earthquakes based on Vertical Strong Motion Arrays" June 2008-September 2009

## 9. İdari Görevler

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## 10. Bilimsel ve Mesleki Kuruluşlara Üyelikler

- Architectural Institute of Japan (AIJ)
- IMO- Turkish Chamber of Civil Engineers
- Boğaziçi University Alumni Association

## 11. Ödüller

- 2017-2019 JSPS (Japanese Society for Promotion of Science) 2-year Postdoctoral Standard Fellowship for professors and early career researchers
- Granted scholarship for the 1st International Summer School on Smart Structures, new technologies from a civil and mechanical engineering perspective, 2012, Trento, Italy
- Scholarship for NeesQUAKE Summit 2011 granted by MCEER Thrust Area 1 (Infrastructure Systems and Public Policy,US.
- Scholarship for the Preparatory Course on Pseudo-Dynamic Experimental Testing granted by European Union, Ispra, November 2010.
- 2214-Visiting Scholar Research Fellowship granted by The Scientific and Technological Research Council of Turkey, 2011.
- Scholarship for the Preparatory Course on Experimental Testing, Pavia, March 2010
- Selected paper for Outstanding Young Scientists Award by European Geosciences Union (EGU) for the study entitled 'Urban earthquake shaking and loss assessment', 2009,
- Network of Research Infrastructures for European Seismology (NERIES) European Commission Project, FP6, 2008-2010, ELER-Computer Code Development of Spectral Based Vulnerability Analyses (Level2) and integration of Level2 with level0 and Level1 analyses; Researcher in charge of development of spectral based damage assessment strategies for Level 2 Analysis.
- Fellowship for Researcher, Granted by The Scientific and Technological Research Council of Turkey, TUBITAK under the Project titled "Monitoring and Modeling Local Site Response During Earthquakes based on Vertical Strong Motion Arrays" 2008- 2009
- Scholarship for International Training Program for Seismic Design of Structures and Hazard Mitigation (ITP 2008), granted by National Centre for Research on Earthquake Engineering (NCREE), Taipei, Taiwan
- Graduate Student Conference Participation Support, Bogazici University Foundation, 2008, 2009, 2010, 2012, 2013.
- Granted Scholarship of National Earthquake Foundation of Turkey (2004-2006)
- BAP Project of Bogazici University, 'The use of Hybrid Passive Control Systems for Seismically Isolated Buildings'

12. Son iki yılda verdiğiniz lisans ve lisansüstü düzeydeki dersler için aşağıdaki tabloyu doldurunuz.

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2019-2020	Güz-Lisans	Betonarme	3		74
	Güz-Lisansüstü	Olasılıksal Modeller ve Uygulamaları	3		7
	İlkbahar				
	Güz				35
	İlkbahar Lisans	Özel Yapılar Tasarımı Ve İnşası			10
		Yapısal Mühendislikte Bilgisayar Uygulamaları			35

**Not:** Açılmışsa, yaz döneminde verilen dersler de tabloya ilave edilecektir.