Prof. HALUK SUCUOĞLU

Personal Information

Office Phone: +90 312 210 5480 Email: sucuoglu@metu.edu.tr

Web: https://avesis.metu.edu.tr/sucuoglu

International Researcher IDs

ScholarID: Kht8OysAAAAJ ORCID: 0000-0003-4475-8182

Publons / Web Of Science ResearcherID: J-3654-2016

ScopusID: 57221862225 Yoksis Researcher ID: 163267

Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, Turkey 1976 - 1982

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1974 - 1976

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1970 - 1974

Dissertations

Doctorate, Yığma duvarların deprem davranışı, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 1982

Postgraduate, Betonarme Çerçevelerin Deprem Davranışı, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1976

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1978 - Continues

Advising Theses

ERBERİK M. A., SUCUOĞLU H., ENERGY BASED SEISMIC ASSESSMENT AND DESIGN, Doctorate, F.SONER(Student), 2019 SUCUOĞLU H., Inelastic Seismic Response Analysis and Design of Torsionally Coupled Systems, Doctorate,

K.KAATSIZ(Student), 2019

SUCUOĞLU H., YILMAZ M. T., An investigation of seismic face stability of deep tunnels by using an axisymmetric finite element model, Postgraduate, H.ELIZABETH(Student), 2018

SUCUOĞLU H., KURÇ Ö., A comparative study on nonlinear modeling of structural walls, Postgraduate, S.EREN(Student), 2018

SUCUOĞLU H., Performance based seismic design of reinforced concrete tall buildings, Postgraduate, E.BUDAK(Student), 2015

SUCUOĞLU H., A general evaluation of linear elastic assessment procedures in seismic codes, Postgraduate, U.ÖZÇAMUR(Student), 2014

SUCUOĞLU H., A linear modal combination procedure for structural dynamics, Postgraduate, S.TANIŞER(Student), 2013 BİNİCİ B., SUCUOĞLU H., Modelling effects of insufficient lap splices on a deficient reinforced concrete frame,

Postgraduate, W.WEI(Student), 2013

SUCUOĞLU H., Linear modal combination procedure for structural dynamics, Postgraduate, S.Tanışer(Student), 2013 SUCUOĞLU H., Generalized pushover analysis, Postgraduate, F.SONER(Student), 2012

SUCUOĞLU H., Generalized pushover analysis for unsymmetrical plan buildings, Postgraduate, K.KAATSIZ(Student), 2012 SUCUOĞLU H., A nonlinear equivalent frame model for displacement based analysis of unreinforced brick masonry buildings, Postgraduate, İ.OZAN(Student), 2010

SUCUOĞLU H., Displacement-based seismic rehabilitation of non-ductile RC frames with added shear walls, Postgraduate, C.KARAGEYİK(Student), 2010

ERBERİK M. A., SUCUOĞLU H., Energy based seismic performance assessment of reinforced concrete columns, Doctorate, B.ACUN(Student), 2010

SUCUOĞLU H., An equivalent linearization procedure for seismic response prediction of MDOF systems, Doctorate, M.SELİM(Student), 2008

SUCUOĞLU H., Quantitative evaluation of assessment methods in the 2007 Turkish earthquake code, Postgraduate, A.ŞENGÖZ(Student), 2007

SUCUOĞLU H., Dynamic pull analysis for estimating seismic response, Postgraduate, C.DEĞİRMENCİ(Student), 2006 SUCUOĞLU H., A comparative assessment of an existing reinforced concrete building by using different seismic rehabilitation codes and procedures, Postgraduate, İ.ÖZTÜRK(Student), 2006

SUCUOĞLU H., Performance evaluation of existing medium rise reinforced concrete buildings according to 2006 Turkish Seismic Rehabilitation Code, Postgraduate, Z.DÜZCE(Student), 2006

ÇETİN K. Ö., SUCUOĞLU H., Effects of soil structure interaction and base isolated systems on seismic performance of foundation soils, Postgraduate, S.SOYÖZ(Student), 2004

SUCUOĞLU H., Simplified procedures for seismic assessment of medium rise reinforced concrete building structures, Postgraduate, M.SELİM(Student), 2003

SUCUOĞLU H., Seismic evaluation of school buildings after the 12 November 1999 Düzce earthquake., Postgraduate, H.AYDIN(Student), 2002

SUCUOĞLU H., Seismic performance assessment of a residential building in Düzce during the 12 November 1999 Düzce Earhquake., Postgraduate, S.Bayılı(Student), 2002

SUCUOĞLU H., Assessment of seismic retrofitting by life cycle costing method, Postgraduate, G.MACİT(Student), 2002 SUCUOĞLU H., Seismic performance assessment of a residential building in Düzce during the 12 November 1999 Düzce earthquake, Postgraduate, S.BAYILI(Student), 2002

SUCUOĞLU H., Cost comparison of clay brick and AAC masonry walls employed in seiemic resistant masonry and reinforced concrete building construction, Postgraduate, H.Burak(Student), 2001

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SUCUOĞLU H., Energy based seismic evaluation of degrading systems, Doctorate, M.ALTUĞ(Student), 2001 POLAT U., SUCUOĞLU H., Development of a uniaxial shaking table and a data acquisition system, Postgraduate,

A.Korucu(Student), 1999

SUCUOĞLU H., Capacity evaluation of damaged and repaired structures, Postgraduate, T.GÜR(Student), 1999

 $SUCUO\c GLU~H., A~methodology~for~the~seismic~damage~assessment~of~low-rise~reinforced~concrete~buildings,$

Postgraduate, K.Omane(Student), 1998

SUCUOĞLU H., A Methodology for the seismic damage assesment of low-rise reinforced concrete buildings, Postgraduate, K.OMAGE(Student), 1998

SUCUOĞLU H., Performance and cost evaluation of reinforced concrete buildings designed according to 1975 and 1997 Turkish Seismic Design Codos, Postgraduate, M.HAKAN(Student), 1998

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SUCUOĞLU H., Controlling the seismic behaviour of exterior reinforced concrete frame joints with relocated beam plastic

hinges, Postgraduate, E.Başaran (Student), 1997

SUCUOĞLU H., Inelastic dynamic response analysis of an instrumented R/C building located on the on the North Anatolian fault, Postgraduate, M.Onur(Student), 1995

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SUCUOĞLU H., The Effect of connection characteristics on the inelastic seismic behavior of precast frames, Postgraduate, A.YUSUF(Student), 1992

SUCUOĞLU H., An Interactive computer program to generate in elastic response spectra, Postgraduate,

A ŞAHİN (Student), 1991

SUCUOĞLU H., Seismic shear strenght of reinforced masonry piers, Postgraduate, N.SHİRALİ(Student), 1989

SUCUOĞLU H., An Approximate method for the nonlinear seismic analysis of soil layers, Postgraduate,

EMELTEM(Student), 1989

SUCUOĞLU H., Seismic shear stregth of reinforced masonry piers, Postgraduate, N.Mohammad(Student), 1989 SUCUOĞLU H., Inelastic spectral analysis of structural systems under seismic excitation, Postgraduate,

M.DİCLELİ(Student), 1989

SUCUOĞLU H., Nonlinear collapse analysis of frame-wall structures, Postgraduate, H.TULUNAY(Student), 1989 SUCUOĞLU H., Analysis of lateral-torsional coupled building with base isolation, Postgraduate, I.Can(Student), 1988 SUCUOĞLU H., Analysis of lateral-torsional coupled buildings with base isolation, Postgraduate, İ.CAN(Student), 1988 SUCUOĞLU H., Nonlinear seismic response of horizontally layered soil deposits, Postgraduate, A.MAHMOUD(Student), 1987

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I. A critical assessment of the design displacements of friction pendulum systems

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V. Response parameters that control the service, safety and collapse performances of a 253 m tall concrete core wall building in Istanbul

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VIII. Development of Fragility Curves for Single-Column RC Italian Bridges Using Nonlinear Static Analysis

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XII. The role of overstrength on the seismic performance of asymmetric-plan structures KAATSIZ K., SUCUOĞLU H.

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XIV. Generalized force vectors for multi-mode pushover analysis of bridges

Perdomo C., Monteiro R., SUCUOĞLU H.

BULLETIN OF EARTHQUAKE ENGINEERING, vol.15, no.12, pp.5247-5280, 2017 (SCI-Expanded)

XV. Prediction of input energy spectrum: attenuation models and velocity spectrum scaling Alici F. S., SUCUOĞLU H.

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XVII. Practical Implementation of Generalized Force Vectors for the Multimodal Pushover Analysis of Building Structures

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XXIX. Evaluation of the Performance Limit States of Reinforced Concrete Columns in View of Experimental Observations

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XXX. Generalized force vectors for multi-mode pushover analysis

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EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.40, no.1, pp.55-74, 2011 (SCI-Expanded)

XXXI. A Displacement-Based Approach for the Seismic Retrofitting of Medium Rise Non-Ductile RC Frames with Added Shear Walls

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XXXVI. Enhancement of the national strong-motion network in Turkey

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XXXVII. A screening procedure for seismic risk assessment in urban building stocks

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EARTHQUAKE SPECTRA, vol.23, no.2, pp.441-458, 2007 (SCI-Expanded)

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XL. Energy-based hysteresis and damage models for deteriorating systems

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V. Performance Based Seismic Evaluation of a 62 Story RC Tower in Istanbul

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VIII. Earthquake Resilience: Performance-based seismic design of concrete structures SUCUOĞLU H.

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IX. Sismik Girdi Enerjisi Tahmini: Tahmin Denklemleri ve Hız Spektrumu Ölçeklendirmesi ALICI F. S., SUCUOĞLU H.

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X. INVESTIGATION OF OVERSTRENGTH IN ASYMMETRIC-PLAN STRUCTURES AS AN OPTIMUM DESIGN STRATEGY

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XI. Application of Performance Based Seismic Design to Tall buildings Located in high Seismic Region BUDAK E., SUCUOĞLU H.

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XII. Safety of Airport Structures Against Blast Attack

SUCUOĞLU H.

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XIII. Performance Based Seismic Design of Reinforced Concrete Tall Buildings

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XIV. GENERALIZED PUSHOVER ANALYSIS FOR TORSIONALLY COUPLED SYSTEMS

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XVI. BURULMALI SİSTEMLER İÇİN GENEL YÜK VEKTÖRLERİ İLE ÇOK MODLU İTME ANALİZİ KAATSIZ K., SUCUOĞLU H.

3. TÜRKİYE DEPREM MÜHENDİSLİĞİ VE SİSMOLOJİ KONFERANSI, İzmir, Turkey, 14 - 16 October 2015

XVII. BİNA YAPILARININ ÇOK MODLU İTME ANALİZİ İÇİN GENEL YÜK VEKTÖRLERİNİN PRATİK UYGULAMASI

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XX. Generalized force vectors for analysis of torsionally coupled systems KAATSIZ K., SUCUOĞLU H.

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XXII. Performance Based Procedures in the Assessment and Retrofitting of Existing Structures SUCUOĞLU H.

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XXXVII. EARTHQUAKE VULNERABILITY LOSS AND RISK ASSESSMENT IN TURKEY

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2ND INTERNATIONAL CONF ON STRUCTURES UNDER SHOCK AND IMPACT, 16 - 18 June 1992, pp.601-612

Supported Projects

SUCUOĞLU H., Other International Funding Programs, Masters in Earthquake Engineering and Engineering Seismology, 2015 - 2019

SUCUOĞLU H., TUBITAK Project, YIĞMA DOLGU DUVARLI BETONARME ÇERÇEVELERİN DAVRANIŞ BÜTÜNLÜĞÜ İÇİN BİR BAĞ SİSTEMİ, 2013 - 2015

Contractual Researches

SUCUOĞLU H., UNIFREE, 2018 - 2019

SUCUOĞLU H., UNIFREE DUTY A.Ş. PROJE, 2016 - 2017

SUCUOĞLU H., ENERJİ-SA PROJESİ, 2013 - 2013

SUCUOĞLU H., Star Rafineri AŞ Projesi, 2012 - 2012

SUCUOĞLU H., ENERJİSA DANIŞMANLIK, 2012 - 2012

SUCUOĞLU H., Riskli Binaların Hızlı Degerlendirme Yöntemleri ile Belirleme Formunun Gelistirilmesi ve Pilot Uygulaması İşi Danışmanlık Hizmetleri , 2009 - 2009

SUCUOĞLU H., Evaluation of projects of facilities for electricity power generation, 2009 - 2009

SUCUOĞLU H., TC Milli Eğitim Bakanlığı OKullarında Yeni Deprem Yönetmeliğine Uygun Hesap ve Detayların Geliştirilmesi, 2007 - 2007

Activities in Scientific Journals

Earthquakes and Structures, Committee Member, 2012 - Continues
Earthquake Spectra, Committee Member, 2010 - Continues
Journal Of Earthquake Engineering, Committee Member, 2001 - Continues

Metrics

Publication: 118 Citation (WoS): 918 Citation (Scopus): 913 H-Index (WoS): 17 H-Index (Scopus): 15

Invited Talks

 $New\ Improvements\ in\ the\ 2018\ Turkish\ Seismic\ Code,\ Conference,\ CEB-FIP,\ Turkey,\ November\ 2018$

Awards

Sucuoğlu H., Bilim Ödülü, Parlar Eğitim Ve Araştırma Vakfı, December 2012

Non Academic Experience

METU

METU