

CURRICULUM VITAE

Full Name : Serhan ŞENSOY
 Gender : Male
 Date of Birth : 16th April, 1970
 Place of birth : Nicosia, Cyprus
 Permanent Address : 6/A, Okul Sokak, Dumlupinar Mahallesi, Gazimagusa
 North Cyprus (via Mersin 10 Turkey)
 Nationality : Turkish Cypriot
 Present Status : Assistant Professor in the Department of Civil Engineering, EMU.
 Marital status : Married having one child
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EDUCATIONAL QUALIFICATIONS:

<u>School/University</u>	<u>Year</u>	<u>Degree</u>
Civil Engineering / Eastern Mediterranean University	1999	Ph.D.
Civil Engineering / Eastern Mediterranean University	1995	M.Sc
Civil Engineering / Eastern Mediterranean University	1993	B.Sc.

TEACHING POSITIONS AND RANKS HELD

Institution	Rank	Date	Major Subject
Eastern Mediterranean University / Mağusa	Associate Professor	October 2015- Present	Civil Eng. Dept. (Structures branch)
Eastern Mediterranean University / Mağusa	Assistant Professor	Sept. 1999- 2015	Civil Eng. Dept. (Structures branch)
Eastern Mediterranean University / Mağusa	Research Assistant	Sept. 1993 – Aug. 1999	Civil Eng. Dept. (Structures branch)

TEACHING EFFECTIVENESS

COURSES TAUGHT

1. Undergraduate

<i>Course Code and Title</i>	<i>Credit Hours</i>	<i>Last Academic Year</i>
CMPE 105 Introduction to Computer Usage	3	1999/2000 Spring
CE 221 Strength of Materials	4	2000/2001 Spring
CE 341 Structural Analysis II	4	2004/2005 Spring
CE 372 Reinforced Concrete	4	2007/2008 Fall
CIVL372 Fundamentals of Reinforced Concrete	4	2015/2016 Spring
CE 422 Introduction to Finite Elements	4	2000/2001 Fall
CIVL471 Structural Design	4	2013/2014 Spring
CIVL 471 Design of Reinforced Concrete Structures	3	2010/2011 Fall
CE 477 Earthquake Resistant Design of Structures	4	2004/2005 Spring
INSA372 Betonarmenin Esasları	4	2015/2016 Spring

2. Graduate

<i>Course Code and Title</i>	<i>Credit Hours</i>	<i>Last Academic Year</i>
CE 511 Mathematical Topics for Engineers	3	2004/2005 Fall
CE 512 Stability of Systems (Linear)	3	2009/2010 Fall
CE 547 Structural Reliability	3	2007/2008 Spring
CE 577 Seismic Performance Assessment of Buildings	3	2012/2013 Fall

THESIS/PROJECTS SUPERVISED:

Graduate Thesis Supervised:

PhD Thesis

- i) Foad Karimi Ghaleh Jough “Prediction of Seismic Collapse Risk in Steel Moment Framed Structures by Metaheuristic Algorithm” January 2016
- ii) Ali Kia “Assessment of Seismic Behavior of Mid-Rise R/C Slab Column Buildings in Cyprus Using Fragility Curves and Artificial Neural Network” PhD Thesis, EMU, February 2015

- iii) Hakan Yalçiner “Predicting Performance Level of Reinforced Concrete Structures Subject to Corrosion as a Function of Time” PhD Thesis, EMU, June 2012 (Co-Supervisor)

MS Thesis

- i) Orod Zarrinkafsh “Experimental investigation on self-compacting fiber reinforced concrete slabs” MS Thesis, EMU, February 2015
- ii) Hassan Moniri “Evaluation of Seismic Performance of Reinforced Concrete Buildings Using Incremental Dynamic Analysis (IDA) for Near-Field Earthquakes, MS Thesis, EMU, October 2014
- iii) Saeid Moussavi Tayyebi “Nonlinear Analysis Methods for Evaluating Seismic Performance of Multi-Story RC- Buildings, MS Thesis, October 2014
- iv) Mezgeen Abdulrahman Rasol “Seismic Performance Assessment and Strengthening of a Multi-Storey RC Building Through a Case Study of Seaside Hotel”, MS Thesis, EMU, January 2014.
- v) Mazen Al-Bdoor “Behavior of Composite Column Subjected to Lateral Cyclic Loading”, MS Thesis, EMU, July 2013
- vi) Arash Pir “Experimental and Numerical Investigation on Steel Fibrous Reinforced Concrete Slab Strips with Traditional Longitudinal Steel Bars”, MS Thesis, EMU, January 2013
- vii) Hind Mahmood Khudhur “Discussions on the Seismic Performance Assessment Through a Case Study of Sosyal Konutlar Building in Famagusta”, MS Thesis, EMU, June 2012.
- viii) Aydin Gharagozloo “Seismic Performance Assessment of RC Buildings Case of “Bakir Paşa” High School”, MS Thesis, EMU, September 2011.
- ix) Pedram Khajehhesameddin “Probabilistic Seismic Demand of 2-D Steel Moment Resisting Frames in Estimation of Collapse under Earthquake Ground Motions”, MS Thesis, EMU, June 2010.
- x) Temuçin Yardımcı “Seismic Performance Assessment and Strengthening of Gazimağusa Namık Kemal Lisesi, July 2009 (with Ö. Eren)
- xi) Amir Hosein Mohammad Khanlou “Evaluation and Assessment of Reinforced Concrete Building by Incremental Dynamic Analysis”, MS Thesis, EMU, September 2008
- xii) Mousavi, S. M. F., “Evaluation of Nonlinear Static Procedures in Estimating Seismic Demand”, MS Thesis, EMU, September 2006
- xiii) Öztemel, A., “Seismic Vulnerability Assessment of Existing Reinforce Concrete Buildings”, MS Thesis, EMU, August 2003.
- xiv) Erbilien, D., “Comparison of Equivalent Seismic Load and Mode Superposition Methods for Buildings Having Irregularities”, MS Thesis, EMU, October 2001.

RESEARCH PROJECT:

A-Type A Project proposal has been prepared (with Ö. Eren)

Title of project:

Determination of strength-permeability-age of concrete for existing reinforced concrete structures

Proposed by: Ö.Eren & S. Şensoy, Civil Engineering Department.

30 May, 2007

Completed: 2009

PUBLICATIONS, CONFERENCES:

PAPERS IN JOURNALS COVERED BY SCIENCE CITATION INDEX (SCI)

Ghaleh Jough F. K and Şensoy, S. “Prediction of Seismic Collapse Risk in Steel Moment Framed Mid-rise Structures by Metaheuristic Algorithm”, *Earthquake Engineering and Engineering Vibration* (accepted for publication)

Yalçın H, Şensoy S and Eren Ö. “Seismic Performance Assessment of A Corroded 50-Year-Old Reinforced Concrete Building”, *ASCE J. Struct. Eng.*, 141(12):05015001, 2015

Kia A., and Şensoy S. “Classification of Earthquake-Induced Damage for R/C Slab Column Frames Using Multiclass SVM and Its Combination with MLP Neural Network”, *Mathematical Problems in Engineering*, 2014 - 734072, pp 1-14, 2014

Yalçın H, Şensoy, S and Eren Ö. “Time-dependent Seismic Performance Assessment of a Single-Degree-of-Freedom Frame Subject to Corrosion”, *Journal of Engineering Failure Analysis*, 19 , pp. 109-122, 2012.

Yalçın H, Şensoy S and Eren Ö. “Effect of corrosion damage on the performance level of a 25-year old reinforced concrete building”, *Journal of Shock and Vibration*, vol. 19, pp. 891-902, 2012.

Yalçın H, Eren Ö and Şensoy S. “An experimental study on the bond strength between reinforcement bars and concrete as a function of concrete cover, strength and corrosion level”, *Cement and Concrete Research*, vol.42, issue 5, pp. 643-655, May 2012.

Şensoy, S. and Huseyin, K., “On the Application of IHB Technique to the Analysis of Non-linear Oscillations and Bifurcations”, *Journal of Sound and Vibration*, 215(1), pp. 35-46, 1998

INTERNATIONAL JOURNAL

Kia, A. and Şensoy, S. “Assessment the Effective Ground Motion Parameters on Seismic Performance of R/C Buildings Using Artificial Neural Network”, *Indian Journal of Science and Technology*, Vol. 7, Issue 12, pp.2076-2082, December 2014

Foad, K. and Şensoy, S., “Seismic Behavior of Mid-Rise Semi Rigid Moment-Resisting Steel Frames”, *European Journal of Scientific Research*, Vol. 111, No. 4, pp.577-587, September 2013.

INTERNATIONAL CONFERENCE PAPERS/PRESENTATIONS:

Khanlou, A and **Sensoy, S.**, “Assessment of Reinforced Concrete Building by Incremental Dynamic Analysis”, *NZSEE 2010 Conference*, Univ. of Canterbury, New Zealand. 2010 (Poster presentation)

Şensoy, S., and Mousavi, S. M. F., “Evaluation of MPA Method in Estimating Seismic Demand” *International Symposium on Advances in Earthquake & Structural Engineering*, Antalya, 24-26 October, 2007.

Öztemel A., and **Şensoy, S.**, “Mathematical Model for the Probability Distribution of In-Situ Concrete Compressive Strength in North Cyprus”, *Proceedings of the 29th Conference on Our World in Concrete and Structures*, Paper No.1126, pp. 387-395, Singapore, August 2004.

Bilsel, H., Celikag, M., Eren O. and **Sensoy, S.**, "Repairs to Teacher Training Academy RC Building in North Cyprus-Case Study", *Proceedings of The 7th International Conference on Inspection, Appraisal, Repairs and Maintenance of Buildings and Structures*, p. 225-232, Nottingham-Trent University Campus, United Kingdom, 11-13 September 2001.

NATIONAL CONFERENCE PAPERS:

Safkan, İ., Şensoy, S. ve Çağnan, Z."Kıbrıs'taki Yönetmelik Öncesi Binaların Deprem Performansı'nın Değerlendirilmesi". 3. *Türkiye Deprem Mühendisliği ve Sismoloji Konferansı*, DEÜ-İZMİR, Türkiye, 14-16 Ekim 2015.

Al Hindi, H., Al -Bdoor, M., **Şensoy, S.** and Çelikağ, M. “Seismic Performance Evaluation of Concrete-Encased Composite Beam Column”, *International Civil Engineering and Architecture Symposium for Academicians (ICESA 2014)*, Antalya, Turkey, 17-20 May 2014.

Moniri, H., Zarrinkafsh, O. and **Şensoy, S.** “Seismic Assessment of a Steel Structure with Viscoelastic and Friction Dampers”, *11th International Congress on Advances in Civil Engineering (ACE2014)*, İstanbul, Turkey, 21-25 October, 2014

Khanlou, A and **Sensoy, S.**, “Performance Assessment of a Reinforced Concrete Building by Incremental Dynamic Analysis”, *ACE2010-9th International Conference on Advances in Civil Engineering*, KTÜ, Trabzon, Turkey, 27-30 September 2010.

Şensoy, S. “Ülkemizdeki mevcut betonarme yapıların deprem güvenliklerinin tespiti için alternatif yaklaşımlar”, *Deprem Haftası Bildiriler Kitabı*, s.95-104, *KTMMOB, Lefkoşa*, 12-16 Ağustos 2002.

Sensoy, S., "Dynamic (Flutter) Instability Phenomenon of a Cantilever Beam on Elastic Foundation" *proceedings of 4th Technical (International) Congress on Advances in Civil Engineering ACE2000*, Vol. III pp. 1159-1168, G. Magusa, TRNC, 1-3 November 2000.

CHAPTER IN A BOOK

Sensoy, S., "Degenerate Hopf Bifurcation Phenomena of a Cantilever Beam on Elastic Foundation", *Structural Engineering, Mechanics and Computation (SEMC2001)*, Vol 2, p. 811-820, Elsevier, 2001 (Edited by A. Zingoni)

THESIS:

Sensoy, S., “On the Bifurcation and Stability Analysis of Non-Autonomous Systems”, Ph.D Thesis EMU, August 1999. (Supervisor: Prof. Dr. Koncay Hüseyin)

Sensoy, S., “Two Dimensional Structural Analysis by Flexibility Method”, M.Sc. Thesis, EMU, August 1995. (Supervisor: Prof. Mehmet Bayer)

ACADEMIC AND PROFESSIONAL SERVICES**Administrative Duties**

Vice Chair, Department of Civil Engineering, Eastern Mediterranean University (Sep. 2013- present)

Assistant Director, Institute of Graduate Studies and Research, EMU (May 2006-July 2007)

Vice Chair, Department of Civil Engineering, Eastern Mediterranean University (Sep. 2001- July 2004)

Academic Committee Memberships in EMU

<u>Committee</u>	<u>Period</u>
University Disciplinary Committee	2006/2007 Academic Year
Department Curriculum Committee	2006/2007 Academic Year
Faculty ABET Committee member	September 2001 - July 2004 and 2007-Present
Department ABET Committee Coordinator	September 2001 - July 2004 and 2007 - Present
Founding member of Building Sciences Research Center	April 2001 - Present
Faculty of Engineering “Thesis format and Appearance Guidelines” Committee member	November 2003 – April 2004
Department Laboratory Committee, member	January 2004 – July 2004
Department Laboratory Committee member (Coordinator)	September 2001 – January 2004
Faculty Graduate Committee member	September 2002 – July 2004
Chair, Department Graduate Committee	September 2002 – January 2004
Department Graduate Committee member	September 2006-May 2010 September 2001 – September 2002
Department Computer Committee member (Coordinator)	September 2001 – September 2006
Department Student Activity Committee (Coordinator)	September 2002 – September 2003 and July 2004 – 2006
Department Project Development and Activities Committee member	July 2004 - 2005

Professional Memberships

<u>Organization</u>	<u>Period</u>
Earthquake Engineering Research Institute, member	2004 - 2005
Union of the Chambers of the Cyprus Turkish Engineers and Architects member	July 1993 – Present
Union of the Chambers of the Cyprus Turkish Engineers and Architects Earthquake Committee member	1995 – 2005
Professional Action for Sustainable Development (PROACTION) [NGO est. 1991] member	April 2003 – Present
Founding member “DAÜ Mezunlar Derneği”	1999 – 2000

Technical Reports

a) EMU

SUBJECT	Technical Committee	DATE submitted	DETAILS
European University of Leadership Building Assessment Report	S. Şensoy, Ö. Eren, İ. Safkan, F. Karimi, O. Kılıç	February 2016	Seismic performance assessment of the old building (pre-1974) has been performed. All the structural system including trusses have been analyzed and reported.
EMU Faculty of Education Building Strengthening Project	S. Şensoy, Ö. Eren, M. F. Mousavi and A. Nataj	June 2014	A detailed strengthening project for the Faculty building effected from corrosion is prepared.
“Sn. Vedat Ertüngü’ye ait Gönyeli Yenikent Bölgesindeki Konutların Değerlendirilmesi”	S. Şensoy and (Ö. Eren – for Concrete tests)	July 2007	Technical report on seismic performance of the building has been done and remedial measures suggested for improving the performance of the building.
“Bafra Bölgesi İçin Tasarlanmış Betonarme Projenin Statik Değerlendirme Raporu”	S. Şensoy	June 2007	Technical report on earthquake resistant design of the building.
“Report on AÖA Building”	Ö. Eren S. Şensoy	Feb 2007	Technical report on observed structural and non-structural problems of the building.
“Evalaution of the Theathere Building in Nicosia”	S. Şensoy	May 2006	Technical report on seismic behaviour of the damaged theater building in Nicosia
“Lapta Huzurevi RC Project” for Ministry of Health	S. Şensoy T. Hatay A. Öztemel	December 2004	RC Building Design project (13322 m ² – 12,145,711 YTL estimated cost)

EMU-5000m ³ capacity water tank	Ö.Eren, S.Şensoy, H.Bilsel	May 2003	Technical report on cracks formed on the walls of water tank.
EMU Campus – EE Engineering Building	Ö.Eren, S.Şensoy,	February 2002	Technical report on observed structural cracks on the building.
Disabled Children Center-TRNC Ministry of Health-Lefkosa	Ö.Eren, S.Şensoy, H.Bilsel	August 2001	Technical report on the observed structural cracks of the damaged building.
Private Villa (H.H. Sonder) in Kumsal/Lefkosa	Ö.Eren, S.Şensoy, H.Bilsel	July 2001	Technical report on the observed structural cracks of the damaged building.
Private Villa (K. Karamanoğlu) in Boğaz/Gazimağusa	Ö.Eren, S.Şensoy, T.Çelik	October 2000	Technical report on the observed structural cracks of the damaged building.

b) Union of the Chambers of the Cyprus Turkish Engineers and Architects Earthquake Committee

Çağnan, A., Ulaş, A., Piyale S., Şensoy, S., Çağnan Ş., Seral T., Yılmaz N., Kunt E., ve Bengisu T., Marmara Depremi Teknik İnceleme Raporu, 24 September 1999, KTMMOB, Lefkoşa.

Workshop Presentation

Sensoy S., “Seismic Vulnerability Assessment of Buildings in North Cyprus”, BSRC Mediterranean Workshop 2002, EMU, 24-26 September 2002.