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### Advising Theses

YÜCEMEN M. S., Reliability of transportation lifeline systems subjected to earthquake loads, Postgraduate, N.TOPKARA(Student), 2016

YÜCEMEN M. S., Estimation of potential earthquake losses for the evaluation of earthquake insurance risks, Doctorate, H.KARACA(Student), 2014

YÜCEMEN M. S., Multistage seismic assessment methods for existing reinforced concrete buildings and their applicability for retrofitting cost estimation, Postgraduate, O.DOĞAN(Student), 2013

YÜCEMEN M. S., Reliability based safety assessment of buried continuous pipelines subjected to earthquake effects, Postgraduate, E.Aykan(Student), 2013

CANER A., YÜCEMEN M. S., Reliability based safety level evaluation of Turkish type precast prestressed concrete bridge girders designed in accordance with the load and resistance factor design method, Postgraduate, O.Argınhan(Student), 2010

YÜCEMEN M. S., Probabilistic seismic hazard analysis : a sensitivity study with respect to different models, Doctorate, N.Yılmaz(Student), 2008

YÜCEMEN M. S., Development of load and resistance factors for reinforced concrete structures in Turkey, Doctorate, F.Kürşat(Student), 2007

YÜCEMEN M. S., Estimation of earthquake insurance premium rates based stochastic methods, Postgraduate, A.Deniz(Student), 2006

YÜCEMEN M. S., Assessment of the extreme value distributions for single and combined random processes, Doctorate, A.C(Student), 1995

YÜCEMEN M. S., Stochastic modeling of earthquake occurrences and estimation of seismic hazard: random field approach, Doctorate, A.Akkaya(Student), 1995

YÜCEMEN M. S., A probabilistic model for the evaluation of reliability of lifeline networks under seismic hazard, Doctorate, A.Sevtap(Student), 1995

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

#### I. Multicriteria Decision Making in Site Selection for Nuclear Power Plants

Tuncer B., AKKAYA A., YÜCEMEN M. S.

Nuclear Technology, vol.210, no.8, pp.1366-1391, 2024 (SCI-Expanded)

#### II. Evolution of seismic hazard maps in Turkey

AKKAR D. S., EROĞLU AZAK T., Can T., Ceken U., Tumsa M. B. D., Duman T. Y., ERDİK M. Ö., ERGİNTAV S., Kadirioglu

F. T., Kalafat D., et al.

Bulletin of Earthquake Engineering, vol.16, no.8, pp.3197-3228, 2018 (SCI-Expanded)

- III. **Sensitivity of seismic hazard results to alternative seismic source and magnitude-recurrence models: a case study for Jordan**  
Yilmaz N., YÜCEMEN M. S.  
GEODINAMICA ACTA, vol.27, pp.189-202, 2015 (SCI-Expanded)
- IV. **Comparison of loads in Turkish earthquake code with those computed statistically**  
Firat F. K., YÜCEMEN M. S.  
EARTHQUAKES AND STRUCTURES, vol.8, no.5, pp.977-994, 2015 (SCI-Expanded)
- V. **Determination of Reliability Based New Load and Resistance Factors for Reinforced Concrete Structural Members**  
Firat F. K., YÜCEMEN M. S.  
TEKNIK DERGI, vol.25, no.3, pp.6805-6829, 2014 (SCI-Expanded)
- VI. **Robust estimation of magnitude-frequency relationship parameters**  
YÜCEMEN M. S., AKKAYA A.  
STRUCTURAL SAFETY, vol.38, pp.32-39, 2012 (SCI-Expanded)
- VII. **An integrated earthquake vulnerability assessment framework for urban areas**  
Duzgun H. S. B., YÜCEMEN M. S., KALAYCIOĞLU H. S., ÇELİK K., Kemec S., Ertugay K., Deniz A.  
NATURAL HAZARDS, vol.59, no.2, pp.917-947, 2011 (SCI-Expanded)
- VIII. **Spatial sensitivity of seismic hazard results to different background seismic activity and temporal earthquake occurrence models**  
Yilmaz N., YÜCEMEN M. S.  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.31, no.7, pp.1027-1039, 2011 (SCI-Expanded)
- IX. **Magnitude conversion problem for the Turkish earthquake data**  
Deniz A., YÜCEMEN M. S.  
NATURAL HAZARDS, vol.55, no.2, pp.333-352, 2010 (SCI-Expanded)
- X. **Probabilistic methods for the estimation of potential seismic damage: Application to reinforced concrete buildings in Turkey**  
Askan A., Yücemem M. S.  
STRUCTURAL SAFETY, vol.32, pp.262-271, 2010 (SCI-Expanded)
- XI. **Probabilistic assessment of earthquake insurance rates for important structures: Application to Gumusova-Gerede motorway**  
YÜCEMEN M. S., YILMAZ Ç., ERDİK M. Ö.  
STRUCTURAL SAFETY, vol.30, no.5, pp.420-435, 2008 (SCI-Expanded)
- XII. **Probabilistic assessment of earthquake insurance rates for Turkey**  
Yucemen M.  
NATURAL HAZARDS, vol.35, no.2, pp.291-313, 2005 (SCI-Expanded)
- XIII. **Prediction of potential damage due to severe earthquakes**  
Yucemen M., Ozcebe G., Pay A.  
STRUCTURAL SAFETY, vol.26, no.3, pp.349-366, 2004 (SCI-Expanded)
- XIV. **A methodology for reliability-based design of rock slopes**  
DUZGUN H., YUCEMEN M. S., Karpuz C.  
ROCK MECHANICS AND ROCK ENGINEERING, vol.36, no.2, pp.95-120, 2003 (SCI-Expanded)
- XV. **A probabilistic model for the assessment of uncertainties in the shear strength of rock discontinuities**  
DUZGUN H., YUCEMEN M. S., Karpuz C.  
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.39, no.6, pp.743-754, 2002 (SCI-Expanded)
- XVI. **Stochastic modeling of earthquake occurrences and estimation of seismic hazard: a random field approach**  
Akkaya A., Yucemen M.

- PROBABILISTIC ENGINEERING MECHANICS, vol.17, no.1, pp.1-13, 2002 (SCI-Expanded)
- XVII. **Estimation of earthquake hazard based on extremes of local integral random functions**  
Akkaya A., Yucemen M.  
Engineering Geology, vol.58, no.1, pp.53-66, 2000 (SCI-Expanded)
- XVIII. **SEISMIC HAZARD ANALYSIS WITH RANDOMLY LOCATED SOURCES**  
YUCEMEN M., GULKAN P.  
NATURAL HAZARDS, vol.9, pp.215-233, 1994 (SCI-Expanded)
- XIX. **A RANDOM-FIELD MODEL FOR THE ESTIMATION OF SEISMIC HAZARD**  
YUCEMEN M.  
STRUCTURAL SAFETY, vol.12, no.3, pp.187-203, 1993 (SCI-Expanded)
- XX. **PROBABILISTIC 3-DIMENSIONAL STABILITY ANALYSIS OF SLOPES**  
YUCEMEN M., ALHOMOUD A.  
STRUCTURAL SAFETY, vol.9, no.1, pp.1-20, 1990 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Seismic Reliability of Highway Transportation Systems**  
Ozcan N. T., YÜCEMEN M. S.  
ASCE-ASME JOURNAL OF RISK AND UNCERTAINTY IN ENGINEERING SYSTEMS PART A-CIVIL ENGINEERING, vol.4, no.3, 2018 (ESCI)
- II. **Calibration of Turkish LRFD bridge design code for slab on steel plate girders**  
KOÇ A., CANER A., YÜCEMEN M. S.  
BRIDGE STRUCTURES, vol.9, pp.115-121, 2013 (ESCI)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Spatial sensitivity of seismic hazard results to background seismic activity models**  
Yilmaz N., YÜCEMEN M. S.  
11th International Conference on Applications of Statistics and Probability in Civil Engineering (IC ASP), Zürich, Switzerland, 1 - 04 August 2011, pp.1496-1503
- II. **Mean damage ratios for reinforced concrete and masonry buildings constructed in Turkey**  
YÜCEMEN M. S., Deniz A.  
4th International Conference on Structural Engineering, Mechanics and Computation, SEMC 2010, Cape-Town, South Africa, 6 - 08 September 2010, pp.1217-1220
- III. **Assessment of earthquake insurance rates for the Turkish catastrophe insurance pool**  
Deniz A., Yucemen M. S.  
10th International Conference on Application of Statistics and Probability in Civil Engineering, Tokyo, Japan, 31 July - 03 August 2007, pp.315-316
- IV. **In defence of Zeytinburnu**  
Ozcebe G., SUCUOĞLU H., YÜCEMEN M. S., YAKUT A.  
Workshop on Advances in Earthquake Engineering for Urban Risk Reduction, İstanbul, Turkey, 30 May - 01 June 2005, vol.66, pp.95-97
- V. **Probabilistic modeling of plane failure in rock slopes**  
DUZGUN H., YUCEMEN M. S., Karpuz C.  
9th International Conference on Applications of Statistics and Probability in Civil Engineering, San-Francisco, Costa Rica, 6 - 09 July 2003, pp.1255-1262
- VI. **Preliminary seismic vulnerability assessment of existing reinforced concrete buildings in Turkey**  
**Part II: Inclusion of site characteristics**  
Yakut A., Aydogan V., Ozcebe G., Yucemen M.

Workshop on Seismic Assessment and Rehabilitation of Existing Buildings, İzmir, Turkey, 13 May 2003, vol.29, pp.43-58

VII. **Preliminary seismic vulnerability assessment of existing reinforced concrete buildings in Turkey - Part I: Statistical model based on structural characteristics**

Ozcebe G., Yucemen M., Aydogan V., Yakut A.

Workshop on Seismic Assessment and Rehabilitation of Existing Buildings, İzmir, Turkey, 13 May 2003, vol.29, pp.29-42

VIII. **Estimation of earthquake damage probabilities for reinforced concrete buildings**

Yucemen M., Askan A.

Workshop on Seismic Assessment and Rehabilitation of Existing Buildings, İzmir, Turkey, 13 May 2003, vol.29, pp.149-164

IX. **Seismic hazard assessment for the North Anatolian and San Andreas faults based on random field models**

Akkaya A., Yucemen M.

8th International Conference on Applications of Statistics and Probability (ICASP 8), Sydney, Australia, 12 - 15 December 1999, pp.511-518

X. **Influence of peak ground velocity on seismic failure probability**

Sucuoglu H., Erberik M., Yucemen M.

4th European Conference on Structural Dynamics (EURODYN 99), PRAGUE, Czech Republic, 7 - 10 June 1999, pp.1031-1036

XI. **A probabilistic design approach for rock slopes**

DUZGUN H., Karpuz C., YUCEMEN M. S.

7th International Symposium on Mine Planning and Equipment Selection, Calgary, Canada, 6 - 09 October 1998, pp.179-184

XII. **EARTHQUAKE RELIABILITY OF LIFELINE NETWORKS**

YUCEMEN M., SELCUK A.

5th US National Conference on Earthquake Engineering - Earthquake Awareness and Mitigation Across the Nation, Illinois, United States Of America, 10 - 14 July 1994, pp.809-818

XIII. **A PROPOSED SEISMIC ZONES MAP FOR TURKEY INCORPORATING SOURCE ZONE BOUNDARY UNCERTAINTY**

GULKAN P., BAZOS N., YUCEMEN M., ERGUNAY O.

5th US National Conference on Earthquake Engineering - Earthquake Awareness and Mitigation Across the Nation, Illinois, United States Of America, 10 - 14 July 1994, pp.661-670

## Metrics

Publication: 35

Citation (WoS): 372

Citation (Scopus): 311

H-Index (WoS): 11

H-Index (Scopus): 10

## Non Academic Experience

Dept. of C.E., METU

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Cyprus International University  
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Earthquake Engineering Research Center, METU  
The Scientific & Tech. Research Council of Turkey (TUBITAK)  
Dept. of Statistics, METU  
Dept. of Statistics, METU  
Dept. of C.E., Jordan University of Science and Technology  
Dept. of C.E., Yarmouk University  
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Earthquake Engineering Research Institute, METU  
Dept. of C.E., Massachusetts Institute of Technology  
Dept. of Applied Statistics, METU  
Dept. of Applied Statistics, METU  
Dept. of Applied Statistics, METU  
Dept. of Management, METU  
Dept. of C.E., University of Illinois at Urbana-Champaign  
Atlanta Utility Works, Atlanta