



TURKISH CONFERENCE ON EARTHQUAKE
ENGINEERING

TCEE 2025

10th TURKISH CONFERENCE ON EARTHQUAKE ENGINEERING

OCTOBER 8-9-10, 2025



PROGRAM

ITU SÜLEYMAN DEMİREL CULTURAL CENTER

Maslak / Istanbul



TURKISH
EARTHQUAKE
FOUNDATION

8 OCTOBER 2025 WEDNESDAY		
OPENING SESSION MAIN HALL A		
10:00 - 10:10	Music Recital İMO İstanbul Şubesi Müzik Topluluğu	
10:10 - 10:45	Opening Speeches	
10:45 - 11:15	Session Chair: Mustafa Erdik Prof. Dr. Rıfat Yazar Lecture Türkiye'nin Deprem Güvenliği Sorunu Çerçevesinde Deprem Yönetmeliği, Yapı Denetim Sistemi ve Yasal Sorumlulukların Genel Değerlendirmesi Haluk Sucuoğlu	
11:15 - 11:30	Break	
1 SESSION MAIN HALL A		
Session Chairs: Alper İlki, Nusret Suna		
11:30 - 12:00	Keynote Lecture: Sinan Akkar Earthquake Loss Models for Turkish Insurance Portfolios	
12:00 - 12:20	Theme Lecture: Murat Altuğ Erberik Should We Design for Sequential Earthquakes?	
12:20 - 12:35	From Masters: Mustafa Erdik Uzun Periyotlu Deprem Yer Hareketi	
12:35 - 12:50	From Masters: Zekai Celep Betonarmenin Doğrusal Olmayan Davranışının Tasarıma Yansıması	
12:50 - 14:00	Lunch Break	
2 SESSION MAIN HALL A		
Session Chair: Çağlar Göksu		
14:00 - 14:30	Keynote Lecture: Helen Crowley Engineering the Future: How Seismic Risk Models Can Build More Resilient Societies	
3A. SESSION MAIN HALL A		
Session Chairs: Helen Crowley, Abdullah Ekinci		
14:35-14:50	Development of Probabilistic Seismic Risk Assessment Models for Reinforced Concrete Buildings Using the February 6, 2023 Kahramanmaraş Earthquake Data	Bekir Oğuz Bartın, Umut Doğan, Taner Yılmaz
14:50-15:05	Empirical Fragility Curves from Damage Data on Relatively New Low-Rise RC Buildings in Malatya Obtained After 2023 Kahramanmaraş Earthquakes	Yiğit Berat Kaya , Tolga Çınar, Alper İlki
15:05-15:20	Empirical Fragility Functions for Predominant Building Typologies in Türkiye	Ufuk Hancılar , Nurullah Açıkgöz
15:20-15:35	Regional Earthquake Risk Assessment of Bornova District, İzmir	Abdullah Niğdelioğlu , Zeynep Tuna Değer, Ertuğrul Taciroğlu
15:35-15:50	Seismic Risk Assessment for Urban Development: A Case for a City in Kingdom of Saudi Arabia	Cüneyt Tüzün , Mine B. Demircioğlu-Tümsa, Miguel Francisco Amaral, Yusuf Batuge, Hadi Chalal, Christian G. Groom, Yasser M. Al-Bogami, Zidan M. Yousef

8 OCTOBER 2025 WEDNESDAY

**3B. SESSION
HALL B**

Session Chairs: Arkadiusz Kwiecień, Zekai Celep

14:35-14:50	Axial Load Behavior of RC Columns Retrofitted with SFRC Plates: Experimental and Numerical Study	Omer M. M. Al-Aboosi, Alper Büyükkaragöz
14:50-15:05	Experimental Investigation of Strengthening Partition Walls with FRCM Type Materials	Eyüp Serhan Güven, Cansu Beril Eser, Taha Yasin Altiok, Ali Demir
15:05-15:20	Innovative Retrofitting Methods to Enhance the Seismic Resilience of Substandard RC Frame School Buildings	Ahmet Bal, Selin Koca, Bahadır Özcihan, Oğuz C. Çelik
15:20-15:35	Experimental Study on the Strengthening of Reinforced Concrete Cantilever Beams with Insufficient Shear Capacity under Cyclic Loads with Mechanical Steel Stitches	Yousseoufa Mahamadou Sidibe, Yusuf Uysal, Ceyhun Aksoylu, Boğaçhan Başaran, Yasin Onuralp Özkılıç, Musa Hakan Arslan
15:35-15:50	Flexible Seismic Strengthening Methods for Concrete Frames with Infill Walls: From Research to Practice	Arkadiusz Kwiecień, Bernhard Schranz

**3C. SESSION
HALL C**

Session Chairs: Kemal Beyen, Özer Or

14:35-14:50	Yatay Deprem Etkilerinin Birleştirmesinde İnelastik Hız Spektrumunun Kullanılması: 6 Şubat 2023 Kahramanmaraş Depremleri Örneği (Mw 7.9, 7.8)	Oguz Koz, Asma Yahioaui, Oğuz Cem Çelik
14:50-15:05	2023 Kahramanmaraş Depremleri Sonrası Hatay (Antakya–İskenderun): Yakın-Fay, Zemin Büyütmesi, Basen ve Topografik Etkilerin Değerlendirilmesi	İbrahim Can Beziklioğlu, Eren Vuran, Abdullah Can Zulfikar
15:05-15:20	Balıkesir’de İnşa Edilecek Bir Üretim Tesisi Özelinde Sahaya Özel İvme Spektrumlarının Oluşturulması	Sema Tetik, Emel Hacıoğlu Sıkıcı, Serdar Soyöz, Emre Aytulun
15:20-15:35	Near Field Effects of The February 6, 2023 Kahramanmaraş Earthquake	Kemal Beyen
15:35-15:50	Türkiye Bölgeselleştirilmiş Omurga Yer Hareketi Modelleri	Baran Güryuva, Özkan Kale, M. Abdullah Sandıkaya

**3D SESSION
HALL D**

Session Chairs: Cem Yenidoğan, Bülent Akbaş

14:35-14:50	Taban Yalıtımlı Bir Binanın Deprem Davranışının Zaman Frekans Alanında Araştırılması	Ahmet Özenir, Kemal Beyen
14:50-15:05	Sismik İzolasyon Parametrelerinin Optimizasyonuna Yönelik Yeni Bir Yaklaşım	Ali Erdem Çerçevik, Osman Sevindik
15:05-15:20	Sismik İzolatörlü Binaların Analiz ve Tasarımında Kullanılan Yöntemler Üzerine Bir Değerlendirme	Ali Ruzi Özüygür
15:20-15:35	Yakın Fay Etkisindeki Taban İzolasyonlu Yapıda İlave Sönümleyici Elemanlar ile Davranış İyileştirmesi	Batuhan Şahin, Ercan Yüksel
15:35-15:50	Betonarme Bir Binanın U Şekilli Metalik Sönümleyiciler ile Deprem Performansının İyileştirilmesi	Hasan Talha Şahin, Kurtuluş Atasever, Oğuz Cem Çelik
15:50-16:05	Break	

**4 SESSION
MAIN HALL A**

Session Chairs: Özer Çinicioğlu, Temel Pirli

16:05-16:25	Theme Lecture: Dina D'Ayala Improving School Infrastructure Resilience to Earthquakes and Flooding	
16:25 - 16:40	From Masters: Atilla Ansal Depremlerde Geoteknik Koşulların Önemi	

8 OCTOBER 2025 WEDNESDAY		
5A SESSION MAIN HALL A		
Session Chairs: Oğuz C. Çelik , Selçuk Uluata		
16:45 - 17:00	Shake Table Investigation of Tube-in-Tube Buckling-Restrained Braces for Seismic Retrofit of Substandard RC Frames	Evrin Oyguc , Resat Oyguc, Abdul Hayır, Onur Seker, Bülent Akbaş
17:00 -17:15	Response Control Retrofit of Prefabricated RC Industrial Buildings using Buckling-Restrained Braces (BRBs)	Ahmet Bal, Selin Koca, Oğuz C. Çelik
17:15 - 17:30	Effect of Filament Count in CFRP Fabrics on the Strengthening of Low-Strength Concrete Cylinders	Selin Bazancir , Sener Kolemenoglu, M. Melike Onay, Alper İlki
17:30 - 17:45	<i>Numerical Application of a New Seismic Repair / Strengthening Procedure Based on the Plastic Hinge Relocation Concept</i>	Umut Hasgöl , Tamer Birol, Altuğ Yavaş, Erkan Töre, Alper İlki
17:45 - 18:00	<i>Retrofitting of A R/C Structure Using Different Type of Passive Damper Simultaneously</i>	Suat Yıldırım , Yeşim Demirci
5B SESSION HALL B		
Session Chairs: Gülüm Tanırcan, Elif Ersoy		
16:45 - 17:00	Seismic Fragility Analysis of 100 m ³ Elevated Water Tanks in Türkiye: Assessment of Confinement Effect	Ali Haydar Bayram , Özkan Hakan, Ramazan Livaoğlu
17:00 -17:15	Derivation of damage fragility curves for prefabricated structures based on the Kahramanmaraş earthquakes	Ali Haydar Bayram, Özkan Hakan, Mehmet Ömer Timurağaoğlu , Ramazan Livaoğlu
17:15 - 17:30	Simulated Design of Turkish RC Frame Buildings for Vulnerability Modelling	Serkan Hasanoğlu , Volkan Özсарac, Gerard J. O'Reilly
17:30 - 17:45	Effects of Different Aftershock Scenarios on the Estimated Earthquake Losses: A Case Study for Istanbul	Ömer Faruk Kalaycı , Ufuk Yazgan
17:45 - 18:00	Progressive Collapse Assessment of a Lightweight Steel Structure under Earthquake and Tsunami Effects	Meryem Başaran , Furkan Köslü, Ceren Özer Sözdinler, Ahmet Anıl Dindar
18:00 – 18:15	A Discussion on the Assessment of RC Buildings in Türkiye with Different Pre-Earthquake Rapid Assessment Approaches	Hasan Hüseyin Aydoğdu, Masaki Maeda, Alper İlki
5C SESSION HALL C		
Session Chairs: Sadık Can Girgin, Bülent Tatlı		
16:45 - 17:00	Betonarme Kolonlarda Basınç Kuvveti Üst Sınırı İçin Bir İnceleme	Cem Aydemir , Müberra Eser Aydemir, Güray Arslan
17:00 -17:15	Betonarme Binalarda Yatay Eleman Süreksizliği	Rabia Aydın, Cevdet Şentürk , Oğuzhan Şentürk
17:15 - 17:30	Betonarme Perdeli Çerçevesel Binalarda Farklı Döşeme Tiplerinin Doğrusal Olmayan Davranışa Etkisi	Alican Küçükbayram , Bilge Doran
17:30 - 17:45	Kat Seviyeleri Farklı ve Çekişme Potansiyeli Bulunan Betonarme Binalar Arasındaki Gerekli Derz Mesafelerinin Belirlenmesi	Mehmet İnel, Eşref Deniz , Muhammet Kamal, Bayram Tanık Çaycı, Ahmet Selim Akbıyık
17:45 - 18:00	TBDY-2018'e göre Tasarlanmış Betonarme Bir Yapının Performansının Doğrusal Olmayan Analizlerle 6 Şubat Depremleri Işığında İncelenmesi	Selim Atabaş , Cem Yenidoğan
5D SESSION HALL D		
Session Chairs: Ufuk Hancılar, Tansel Önal		
16:45 - 17:00	Yakın Fay Yönelim Etkilerinin Gözlemsel ve Ampirik Değerlendirmeleri ve Sismik Tehlike Uygulama Önerileri	Özkan Kale , M. Abdullah Sandıkkaya
17:00 -17:15	Near Field Effects of the February 6, 2023, Kahramanmaraş Earthquake in The Hatay Region	Kemal Beyen
17:15 - 17:30	Investigation of the Effect of Record Scaling And Matching on The Surface Response Spectrum In 1d/2d/3d Analyses	Doğukan Alataş , Kadir Emir Güngör, Emre Erbek, Ozan Bilal
17:30 - 17:45	Effects of Quakes on Earth and Mars on a Tensegric Structure	Yusuf Kaya , İbrahim Bay, Yusuf Cengiz Toklu
17:45 - 18:00	Dynamic Analysis of a High-Rise Building Under Near-Fault and Far-Fault Loads Considering Soil-Structure Interaction	Dilek Kaya , Tufan Çakır, Kaşif Furkan Öztürk

9 OCTOBER 2025 THURSDAY		
6 SESSION MAIN HALL A		
Session Chairs: Beyza Taşkın, Ercan Yüksel		
09:30 – 10:00	Keynote Lecture: Riyadh Al-Mahaidi The 15-Year Legacy of the MAST System: Advancing Seismic Resilience through Hybrid Simulation	
10:00 - 10:30	Keynote Lecture: Murat Saatçioğlu Use of Transverse Grid Reinforcement in Earthquake Resistant Structural Elements	
10:30 - 10:45	From Masters: Polat Gülkan Betonarme Yapılar İçin Düktilite Tek Başına Bir Çare Değildir	
10:45 - 11:00	From Masters: Altok Kurşun Geçmişten Günümüze Köprüler, Depremler ve Şartnameler	
11:00 - 11:15	Break	
7A SESSION MAIN HALL A		
Session Chairs: : Mihaela Anca Ciupala, Gülşen Taşkın Kaya		
11:15 - 11:30	Advancing Domain Generalisability in Pre-trained Convolutional Neural Network Models for Post-earthquake Structural Damage Assessments	Kaveesh Guwanindu Abeysuriya, Mihaela Anca Ciupala , Seyed Ali Ghorashi, Alper İlki
11:30 - 11:45	Effect of Machine Learning Hyperparameters on the Prediction Performance of the Relationship Between Seismic Input Energy and Displacement	Furkan Çalım , Ahmet Güllü, Ercan Yüksel
11:45 - 12:00	A Machine Learning-Assisted Rapid Seismic Risk Assessment Framework: QuakeAssess	Utku Karataş, Mert Can Aydemir, Ziya Muderrisoglu, Hasan Özkaynak
12:00 - 12:15	Feature Selection for Liquefaction Susceptibility Analysis Using Machine Learning Techniques	Wisam Elkamali Mohamed, Murat Ergenekon Selçuk, Özgür Yıldız
12:15 - 12:30	AI-Driven Anomaly Detection and Advanced Signal Processing in Accelerometer Data: A Real-Time Implementation	Mohammad Reza Bagerzadeh Karimi
7B SESSION HALL B		
Session Chairs: Altok Kurşun, Metin Aydoğan		
11:15 - 11:30	Seismic Performance of Buckling-Restrained Braced Frames under Kahramanmaraş Earthquake Series	Fatma Esra Uz, Barış Serin, Mehmet Bakır Bozkurt
11:30 - 11:45	Seismic Performance Evaluation of an Inclined-Pile Port Pier in High Seismicity: A Detailed Case Study	Sami Arı , Onur Kengil, Caner Soydaş, Yasin Fahjan
11:45 - 12:00	Multi Input Response of a Reinforced Concrete Building During 6th February 2023 Kahramanmaras Earthquakes	Hasret Gökçen Acar , Kemal Beyen
12:00 - 12:15	Seismic Performance of Reinforced Concrete Frame Systems for Airfield Structures	Uğur Yavuz Balcı , Ahmet Anıl Dindar
12:15 - 12:30	A Comparative Analysis of Türkiye Airport Structures Earthquake Code 2020 and Türkiye Building Earthquake Code 2018	Mehmet Sefa Orak
7C SESSION HALL C		
Session Chairs: Polat Gülkan, S. Gülsun Parlar		
11:15 - 11:30	Investigation of the Second-Order Amplification Factor Method on Reinforced Concrete Buildings	Hasim Cayir , Cenk Aksoylar, Zekai Celep
11:30 - 11:45	Selection of Real Ground Motion Record Sets for Both Horizontal and Vertical Time History Analyses	Ali Haydar Kayhan, Mehmet Palancı, Ahmet Demir
11:45 - 12:00	Investigation of the Directivity Effect of the February 6th Kahramanmaraş Earthquakes Using Tp and Ground Motion Prediction Equations	Marwan Darwish , Vesile Hatun Akansel, Ebru Harmandar
12:00 - 12:15	A Preliminary Study on the Damage Potential of Vertical Ground Motion	Lütfü İhsan Akpunar , Mehmet Oruç, Ufuk Yazgan
12:15 - 12:30	Two-Dimensional Nonlinear Seismic Response and Basin-Edge Effect in the Afyonkarahisar Central Basin	Kamil Bekir Afacan, Süleyman Gücek

9 OCTOBER 2025 THURSDAY		
7D SESSION HALL D		
Session Chairs: Cüneyt Vatansever, Selçuk İz		
11:15 - 11:30	Post-Seismic Investigation on Steel Buildings Following the 6th, 2023 Earthquakes in Türkiye	Cem Haydaroğlu, Sedat Konuklu, Büşra Bıçak, Kağan Yemez, Caner Soydaş
11:30 - 11:45	Evaluation of Seismic Performance of a Steel Building with Lateral Force Resisting System of Chevron Braced Frames: February 6, 2023 Pazarcık–Kahramanmaraş Earthquake	Ahmet Alperen Örgev, Cüneyt Vatansever
11:45 - 12:00	Moment Aktaran Kaynaklı Birleşimlerde Kullanılan Kaynak Yöntemlerinin Birleşim Performansına Etkisi ve Düşük Çevrimli Yorulma Davranışları	Hüdaî Kaya, Barlas Özden Çağlayan
12:00 - 12:15	Yüksek Performanslı Burkulması Önlenmiş Çaprazın Yön Değiştiren Tekrarlı Yükler Altındaki Davranışı ve Modellenmesi	Oğuz Koz , Sinem Güntepe, Tolga Önal, Gen Arakawa, Nasiri Ahmadullah, Oğuz Cem Çelik
12:15 - 12:30	Experimental Investigation on Infill Walls with Flexible Connections Subjected to Out-of-Plane and In-Plane Loading	Cansu Beril Eser, Taha Yasin Altıok, Halil Nohutcu, Ali Demir
12:30 - 13:30	Lunch Break	
8 SESSION MAIN HALL A		
Session Chairs: Recep İyisan		
13:30 - 14:00	Keynote Lecture (Online): Kemal Önder Çetin Lessons offered by the 2023 Kahramanmaraş Earthquake Sequence and Recent Advances in Seismic Soil Liquefaction Engineering	
9A SESSION MAIN HALL A		
Session Chairs: Gürkan Özden, Gökçe Tönük		
14:05 - 14:20	Observations from Gölbaşı/Adıyaman After the February 6 Kahramanmaraş Earthquakes	Ayhan Gürbüz, Seyhan Fırat, Nihat Sinan Işık, Berna Unutmaz, Kemal Önder Çetin Erhan Tekin, Kaan Yünkül
14:20 - 14:35	Study of Seismic Soil Structure Interaction for Buried Pipes Below Groundwater Table Using Numerical Analysis	Münire Dülger, Mehmet Muhit Berilgen, Havvanur Kılıç
14:35 - 14:50	SPT-based Liquefaction Triggering and Surface Manifestation Modelling	Bilal Umut Ayhan, Makbule Ilgac, Kemal Onder Cetin
14:50 - 15:05	Liquefaction Risk in the South Coast Soils of Istanbul by Empirical and Nonlinear Numerical Methods	Zeynep Kaygusuz, Nazife Özge Fercan
15:05 - 15:20	Soil-Structure Interaction Model Tests in Liquefiable Soil Using ETILam Soil Container	M. Batuhan Kocak, Emre Gönülcü, Yaren Birsan-Dizman, Ozan Alver, Esra Ece Eseller-Bayat, M. Salih Babacan
9B SESSION HALL B		
Session Chairs: Eren Vuran, Tuba Gürbüz		
14:05 - 14:20	Effect of Non-Structural Construction Elements on The Performance of Buildings Subjected to Seismic Loads	Afonso Miguel Solak, Amaya Gómez Yábar, Ahmet Erdem Duran
14:20 - 14:35	Investigation of a School Building After the Kahramanmaraş Earthquake	Mehmet Şevik, Taha Yasin Altıok, Ali Demir
14:35 - 14:50	Performance Evaluation of Existing RC Buildings in Malatya	Furkan Kanlı, Ülgen Mert
14:50 - 15:05	Comparison of Soft-Story Definition in Various Seismic Design Codes	Yunus Demirtaş, Özgür Avcı, Ali Bozer, Ahmet Anıl Dindar
15:05 - 15:20	Modeling the Seismic Performance of Rocking Columns: A Comparative Approach	Ebru Toy, Ayşe Edinçliler, Eren Uçkan

9 OCTOBER 2025 THURSDAY		
9C SESSION HALL C		
Session Chairs: Uğurhan Akyüz, Jale Alel		
14:05 - 14:20	Betonarme Yapılarda Lifli Polimerler ile Güçlendirme Uygulamalarının Deprem Performansı Açısından Parametrik Analizi	Selin Bazancir, M. Hüseyin Maslak, Beyza Taşkın
14:20 -14:35	Prekast Betonarme Yapıların Deprem Performansının İyileştirilmesi için Yeni Nesil Güçlendirme Yöntemlerinin Kullanıldığı Örnek Tasarımlar	Gökberk Albay, Onur Ertaş, Şevket Özden, Ercan Yüksel
14:35 - 14:50	Yetersiz Dayanıma Sahip Mevcut Betonarme Binalar için Yenilikçi Sismik Dış İskelet Sisteminin Tam Ölçekli Deneyleri	İsmail Ozan Demirel, Uğurhan Akyüz, Simone Galano, Andrea Rossi
14:50 - 15:05	FRCM Türü Kompozitler ile Güçlendirilen Dolgu Duvarlı Betonarme Çerçevelerin Yatay Yükler Altında İncelenmesi	Şeyma Üner, Hidayet Özdemir
15:05 - 15:20	Post-Earthquake Damage Assessment and Seismic Retrofit Details of the Viaducts in the Nurdağı Region of the TAG (Tarsus–Adana–Gaziantep) Motorway After the February 6, 2023, Kahramanmaraş Earthquakes	Cenan Özkaya, Yunus Emre Kıymaz, Gülden Çetin, Fikret Tulumtaş, Merve Gözütok Gündüz
9D SESSION HALL D		
Session Chairs: Seda Kundak, Bahadır Şadan		
14:05 - 14:20	An Analytical Insight into the Effects of Earthquake-Induced Structural Collapse on Roadway Networks	Niyazi Özgür Bezgin, Recep Bilal Sıkar
14:20 -14:35	Smart City Solutions for Disaster Risk Reduction Plans: The Case of Kırıkkale IRAP Implementation	Hakan Gündüz, Tamer Eren
14:35 - 14:50	Evaluating Multi-Hazard Disaster Preparedness in Şile District of Istanbul through Stress Testing	Cağlar Goksu, Seda Kundak, Kerem Yavuz Arslanlı, Ahmet Atıl Asici, Duygu Kalkanlı, Ali Yılmaz, Cihan Mert Sabah, Esra Kalkan Erten, Betül Ergun Konukcu, Ece Ozden Pak
14:50 - 15:05	UAV-Based 3D Mapping for Post-Disaster Geospatial Data Generation	Merve Bayraktar, Burcu Güldür Erkal
15:05 - 15:20	Beyond the Shake: Confronting Post-Earthquake Fire as a Systemic Urban Hazard	Shahin Dashti, Barlas Özden Çağlayan
15:20 - 15:35	Break	
10 SESSION MAIN HALL A		
Session Chairs: Cem Demir, Ufuk Yazgan		
15:35 - 15:55	Theme Lecture: Koichi Kusunoki A new but old problem in the practical structural design, the current discussion on Soft-First Story failure in Japan	
15:55 - 16:15	Theme Lecture: Gerard O'Reilly Advancements in Seismic Risk Assesment of existing structures: insights from analytical models and empirical earthquake data	
11A SESSION MAIN HALL A		
Session Chairs: A. Can Zülfikar, Ülgen Mert		
16:20 - 16:35	An Experimental Investigation of the EMI-Based SHM of RC Structure Under Dynamic Loading	George M. Sapidis, Maria C. Naoum, Nikos A. Papadopoulos, Maristella E. Voutetaki, Theodoros C. Rousakis
16:35 -16:50	Probability of Detection Approach for Reliability of Acoustic Emission Method in Structural Health Monitoring	Sena Tayfur, Mamady Cisse, Ninel Alver
16:50 - 17:05	Combined Effect of Stiffness Loss at Different Stories on the Natural Periods of Multi-Story Buildings	Emre Gönülcü, Ahmet Anıl Dindar, Engin Orakdoğan
17:05 - 17:20	Vibration characteristic estimation of Bili-Bili Dam, South Sulawesi, Indonesia using microtremor observation	Andi Muhamad Pramatiadie, Andri Moh. Wahyu Laode, Imelda Fitra Nugrani, Miswar Tumpu, Tri Harianto
17:20 - 17:35	Planda Oluşan Çıkıntılar Sonucu Oluşan Düzensizliklerin Frekans Tanım Alanında İncelenmesi	Ahmet Berkay Mostura

9 OCTOBER 2025 THURSDAY		
11B SESSION HALL B		
Session Chairs: Sinan Akkar, Cüneyt Tüzün		
16:20 - 16:35	Assessing Earthquake Risk in Istanbul Metropolitan Area: A Multi-Scenario Based Analysis	Furkan Narlıtepe , Anirudh Rao, Vitor Silva, Helen Crowley
16:35 - 16:50	The Role of 3D Modeling in Enhancing Seismic Risk Management and Disaster Response	Mustafa Korkmaz, A. Can Zulfikar, Sevilay Demirkesen Cakir
16:50 - 17:05	A Comparative Review of Alternative Methods for Addressing Sustainability and Environmental Impact in Earthquake Engineering	Mehmet Oruç , Ufuk Yazgan
17:05 - 17:20	Sustainable Use of Recycled Concrete Aggregate for Pavement Construction: A Comprehensive Review Bridging Laboratory Insights and Field Performance in Post-Earthquake Scenarios	Thomas Ndeya Elago , Emre Akmaz, Aşkın Özocak, Ertan Bol
17:20 - 17:35	A Holistic Earthquake Risk Model and Urban Resilience Strategies for the Marmara Region Based on Innovative Data Generation Methods	Ufuk Hancılar , Emin Y. Menteşe, Karın Şeşetyan, Fatma S. Malcıoğlu, Hakan Süleyman, Erdem Özer, Eser Çaktı
17:35 - 17:50	<i>Kocaeli İli Mevcut Bina Stoğunun Hızlı Değerlendirme Yöntemleriyle İncelenerek Bölgesel Risk Durumlarının Değerlendirilmesi</i>	Ali Akgün , Ali Serkan Simavlı, Ahmet Berkay Mostura, Gökmen Mengüç
11C SESSION HALL C		
Session Chairs: Aslı Yalçın Dayıoğlu, Gökhan Çevikbilen		
16:20 - 16:35	Geotechnical Investigations of the Ground Surface Deformations Associated with Local Soil Conditions during the February 6th Kahramanmaraş Earthquakes	Mehmet Barış Can Ülker , Mert Aksu, Ali Yaz
16:35 - 16:50	Cyclic Response of Adapazarı Silts under Unidirectional Cyclic Direct Simple Shear Loading	Atasev Dogukan Tasbasi , Moutasem Zarzour, Ahmed Al-Suheyli, Kadir Kocaman, Ertan Bol, Askin Ozocak, Sedat Sert, Kemal Onder Cetin
16:50 - 17:05	Investigation of the Effects of Local Soil Class on Base Shear Forces and Overturning Moments According to the Türkiye Building Earthquake Code 2018	Mustafa Özer, Ali Osman Ateş, Özgün Bozdoğan
17:05 - 17:20	Numerical Studies to Investigate the Effects of Cushion Density on Seismic Performance of The Retaining Wall	Ayşe Edinçliler, Bilge Sultan Demirtaş
17:20 - 17:35	Development of probabilistic seismic hazard microzonation map for the Osmaniye metropolitan area	Sara Khoshnevis , Hadi Sabermahany, Mohammad Reza Soghrat, Meysam Mahmoodabadi, Mohammad Talebi
11D SESSION HALL D		
Session Chairs: Ömer Tuğrul Turan, Evren Korkmazer		
16:20 - 16:35	Betonarme Binalarda Kısa Kolon Etkileri	Cevdet Şentürk , Rabia Aydın, Oğuzhan Şentürk
16:35 - 16:50	Yumuşak Kat Kusuru Bulunan Betonarme Binaların Deprem Enerjisi Sönümleme Kapasiteleri Üzerinde Kolon-Kiriş Dayanım Oranlarının Etkisinin İncelenmesi	Nurbanu Demirbaş , Hümeysra Şahin
16:50 - 17:05	Hatay Kırsalındaki İki Katlı Betonarme Bir Yapının Deprem Davranışı ve İyileştirme Varsayımları	Bekir Özbay , Anıl Özdemir
17:05 - 17:20	TDY2007 ve TBDY2018 Deprem Yönetmeliklerine Göre Tasarlanan Bir Binanın TBDY2018 Deprem Yönetmeliğine Göre Zaman Tanım Alanında Doğrusal Olmayan Analiz Yöntemi İle Performanslarının Karşılaştırılması	Abdullah Tokmak , Onur Avcioğlu , Engin Orakdoğan
17:20 - 17:35	Development of an Open-Source Digital Image Correlation System for Structural Engineering Application	Melike Ekiz , Ahu Kömeç
17:35 - 18:00	Data-driven Prediction of Structural Capacity in Fiber-reinforced Polymer Strengthened RC Components	Hüsna Açikel Altunkara , Gamze Dogan, Musa Hakan Arslan

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12 SESSION MAIN HALL A		
Session Chair: Haluk Sucuoğlu		
09:30 – 10:00	Keynote Lecture: Sergio Alcocer Challenges for Strengthening Seismic Resilience in Large Urban Areas: The Case of Mexico City	
12A SESSION MAIN HALL A		
10:05 - 11:20	ATC Special Session ATC-165/ Reducing the Seismic Risk of Residential Buildings in Istanbul Recommendations for Immediate action	
12B SESSION HALL B		
Session Chairs: Pelin Özener, Sami Gültekin		
10:05 - 10:20	Deprem Kaynaklı Şev Deformasyonlarının Belirlenmesi	Sibel Yalçın Tosunoğlu, Sabriye Banu İkizler, Berna Unutmaz
10:20 - 10:35	Sıvılaşma Tehlike Analizi ve Potansiyel Haritalarının Oluşturulması: Yalova İl Merkezi	Selçuk Toprak, Furkan Çiçek, Şeyhmus Can Tunç, Erdal Emirhan Övünç, Merve Bingöl, Fatma Betül Karakoç
10:35 -10:50	Mikrotremor Ölçümleri ve Bir Boyutlu Dinamik Analizlerle Sismik Mikrobölgeleme	Taylan Aksoy, Ozan Subaşı, M. Emre Haşal, Recep İyisan
10:50 - 11:05	Deprem Yükleri Altında Kum Zeminlerin Sıvılaşma Davranışı: Üst Tabaka Kalınlığının Etkisi	Burak Okur, Merve Akbaş, Recep İyisan
12C SESSION HALL C		
Session Chairs: Medine İspir, Murat Serdar Kırçıl		
10:05 - 10:20	The Effect of Kahramanmaraş Earthquakes on Historical Buildings: A Case Study in Beşkonaklar	Fatma Ülker Peker
10:20 - 10:35	Bir Yığma Yapının Deprem Performansının RYTEİE-2019, ASCE 41-23 ve TBDY-2018 Yönetmeliklerine Göre Karşılaştırmalı Değerlendirmesi	Mert Hacıemiroğlu, Ahmet Özenir, Cenk Alhan
10:35 -10:50	Demir Kenet ve Zivana İçeren Tarihi Taş Duvarların Yapısal Modellenmesi ve Düzlem İçi Davranışlarının İncelenmesi	Melika Salman, Oğuz Cem Çelik
10:50 - 11:05	Damage Assessment of Historical Minarets after February 6, 2023 Kahramanmaraş Earthquakes	Ömer Dabanlı, Elif Tuba Alhan, Alper İlki, Hatice Akgür
11:05 - 11:20	Shaking Table Test on Seismic Isolated Loadbearing Earthen Alker Wall	Bilge Işık, Neslihan Işık
11:20 - 11:35	Break	
13A SESSION MAIN HALL A		
Session Chairs: Marko Marinković, Ömer Faruk Halıcı		
11:35-11:50	Lessons Learned from Recent Earthquakes in Türkiye and Mexico – Topics for Future Collaboration	Sergio M. Alcocer, Jorge Aguirre, Jorge A. Ávila, Eduardo Botero, Marcos M. Chávez, Efraín Ovando
11:50 -12:05	Seismic Evaluation of an Existing Precast Concrete Building with Simplified Lateral Mechanism Analysis Method	Çağrı Çetik, Cem Göksoy, Sadık Can Girgin
12:05 - 12:20	Out-of-plane Seismic Behavior of Full-scale Unreinforced AAC Block Infill Walls with In-plane Damages	Ömer Faruk Halıcı, Alper İlki
12:20 - 12:35	RC frames with isolated/decoupled masonry infills: advantages and benefits for practice	Marko Marinković, Christoph Butenweg
13B SESSION HALL B		
Session Chairs: Ayşe Edinçliler, Barlas Özden Çağlayan		
11:35-11:50	Seismic Modal Characterization of Miniature Railway Tracks: Assessing S-Type Deformation Risks and the Influence of Sleeper Geometry	Ferhat Çeçen, Mehmet Saltan
11:50 -12:05	Seismic Performance Assessment of a Bridge Using Nonlinear Analysis Method According to TBEC 2020 Code	Esra Namlı Ceman, Murat Cem Dönmez
12:05 - 12:20	Depreme Dayanıklı Cam Elyaf Takviyeli Kompozit Boru Bağlantılarının Tasarımı ve Geliştirilmesi	Gülüm Tanırcan, Nuri Ersoy, Hasan Emre Demirci, Ayse Edinçliler, Kaveh Shahidi, Hakan Mis, Ahmet Güleç
12:20 - 12:35	Numerical Analysis of Circular Tunnels Under Seismic Effects	Burcu Bayraktar, Yasin Fahjan

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13C SESSION HALL C		
Session Chairs: Kutlu Darılmaz, Zeynep Değer		
11:35-11:50	Improving the Earthquake Performance of Wharf Structures with Seismic Isolation Technology	Cüneyt Tüzün, Bahadır Şadan, Mustafa Erdik
11:50 -12:05	Evaluation of Horizontal and Vertical Earthquake Effects on the Seismic Performance of Base Isolated Buildings Using Double Friction Pendulum Systems	Başak Toprak, Seda Öncü Davas
12:05 - 12:20	Seismic Impact of Fluid Viscous Damper Layouts in Precast RC Industrial Structures	Özkan Hakan, Mehmet Ömer Timurağaoğlu, Ramazan Livaoğlu
12:20 - 12:35	Seismic Design of Buildings Rising On A Common Seismic Isolation System	İsmail Akkaya, Eren Vuran
13D SESSION HALL D		
Session Chairs: Atilla Ansal, Havvanur Kılıç		
11:35-11:50	Liquefaction Susceptibility Evaluation Based on Geotechnical & Geophysical Investigations – A Case Study from Yanbu Industrial City, KSA	Tahir Yıldız, Tuğba İleri, Hadi Chalal, M. Abdullah Sandikkaya, Miguel F. Amaral, Christian G. Groom, Yasser M. Al-Bogami, Zaidan M. Yousef
11:50 -12:05	Flexible Modular Foundation System	Gökhan Baykal
12:05 - 12:20	2023 Kahramanmaraş Depremleri Sonrası Su Sistemi Hasarları ve İyileştirme Çalışmaları	Selçuk Toprak, Engin Nacaroğlu, Oğuz Dal, Muhammet Ceylan, Adem Eren Şentürk, Şeyhmus Can Tunç, Mehdil Buğra İnce
12:20 - 12:35	Yakın Fay ve Uzak Fay Depremleri Altında Zemin-Boru Etkileşim Sisteminin Düzlem Deformasyon Analizi	Kaşif Furkan Öztürk, Tufan Çakır, Dilek Kaya
12:35 - 14:00	Lunch Break	
14 SESSION MAIN HALL A		
Session Chair: Sergio Alcocer		
14:00-14:30	Keynote Lecture: Kutay Orakçal Reinforced concrete walls: How well do we consider their behavior in analysis and design?	
15A SESSION MAIN HALL A		
Session Chairs: Murat Saatçioğlu, Pinar Özden Çağlayan		
14:35 - 14:50	Hybrid FRP-Steel Internal Reinforcement for Seismic Resistant Concrete Shear Walls	Yağmur Waqar, Murat Saatcioglu, Martin Noel
14:50 - 15:05	Determination of Shear Lag in High-Rise Reinforcement Concrete Systems and Its Effect on Analysis and Design	Zeynep Bilgenur Avcı, Kutlu Darılmaz
15:05 - 15:20	Seismic Response and Interaction of Multiple Building Blocks Rising above the Same Foundation Layer, Rigid Basement or Podium Stories	Egehan Genç, Eren Vuran
15:20- 15:35	Seismic Behavior of Uncoupled and Coupled Shear Walls: A Numerical Investigation	Aslıhan Küçük, Zekai Celep
15:35 - 15:50	Parametric Evaluation for the Adequate Shear Wall Index in Reinforced Concrete Buildings to be Constructed in High Seismicity Regions	M. Huseyin Maslak, Selin Bazancir, Beyza Taşkın
15B SESSION HALL B		
Session Chairs: Ali Osman Ateş, Umut Hasgöl		
14:35 - 14:50	Experimental investigation of Multiple U-Shaped Flexural Plates in a Self-Centering Brace for Seismic Energy Dissipation System	Onur Gürler, Özgür Özçelik, Sadık Can Girgin
14:50 - 15:05	The Investigation of Damping Method Effects on Steel Industrial Chimney Design	Samet Kılıç
15:05 - 15:20	Numerical Investigation of Cyclic Behavior of a Reinforced Concrete Column: Blind Prediction Case	Sadık Can Girgin
15:20- 15:35	The Retrofit of Reinforced Concrete Silo with Outside Post-Tensioned Cables	Samet Kılıç
15:35 - 15:50	Analysis of Horizontally Curved Bridges Using Nonlinear Time-History Method and Evaluation of the Results	Esra Namlı Ceman, Turgut Öztürk

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15C SESSION HALL C		
Session Chairs: Alper İlki, Filiz Piroğlu		
14:35 - 14:50	Yeni Tecrübeler Işığında Betonarme Yapılarda Deprem Sonrası Hasar Derecelendirmesi	Ömer Faruk Halıcı, Cem Demir, Mustafa Cömert, Tuğrul Sezdirmez, Erdem Canbay, Bilge Doran, Kutay Orakçal, Alper İlki
14:50 - 15:05	Intelligent Transportation Techniques about Unmanned Aerial Vehicle Applications for Earthquakes	Elif Çiçek
15:05 - 15:20	Afet Eğitimi ve Toplumsal Algı: Kahramanmaraş Depremlerinden Elde Edilen İlksel Bulgular	Masako Nagata , Atakan Arslan, Alev Topçular, Zinet Zercan, Gülüm Tanırcan, Risako İde, Nurcan Meral Özel
15:20- 15:35	Farklı Yapısal Özelliklere Sahip Betonarme Binalarda Bir Hızlı Değerlendirme Yönteminin Başarısının İrdelenmesi	İlknur Karakuş, Ercan Yüksel, Varol Karayel, Tansu Gökçe, Fatih Şahin
15:35 - 15:50	Az Katlı Betonarme Binaların Hızlı Görsel Tarama Yöntemleriyle Değerlendirilmesinde Olumsuzluk Puanlarının Karşılaştırmalı İncelemesi	Nurbanu Demirbaş , Hümeysra Şahin
15D SESSION HALL D		
Session Chairs: Nurcan Meral Özel, Yasin Fahjan		
14:35 - 14:50	The Effect of Ground Motion Scaling Methods on Steel Braced Frame System Behavior	Merve Güler , Nihan Doğramacı Aksoylar
14:50 - 15:05	Seismic site-effect characterization of the High Atlas sedimentary basin following the 2023 Al Haouz Earthquake	El Hilali Mohamed , Ahmed Taoufik Ouahabi, Ahniche Mohamed
15:05 - 15:20	Depremselliğin Yüksek Olduğu Bölgeler İçin Uygun Maliyetli Koruma Sistemlerinin Geliştirilmesi	Cem Yenidogan , Ryuta Enokida
15:20- 15:35	Residual-Based Evaluation of Basin and Basin Edge Effects in Türkiye: Implications for Regional Site Amplification Modeling	Abdullah İçen
15:50 - 16:05	Break	
16 SESSION MAIN HALL A		
Session Chairs: Tülay Aksu, Sinem Kolgu		
16:05-16:25	Theme Lecture: Ufuk Yazgan Beyond the Model: Critical Judgment and Holistic Thinking in Earthquake Engineering in the Age of AI	
16:25 - 16:45	Theme Lecture: Pelin Özener Role and Significance of Performance Based Design in Earthquake Geotechnical Engineering Practice	
16:45 -17:00	From Masters: M. Nuray Aydınoğlu Deprem Katsayısından Performansa Göre Tasarıma: 60 Yıllık Bir Mühendisin Bakış Açısından Yapısal Deprem Mühendisliğinin Serüveni	
17:00 -17:15	From Masters: Kutay Özaydın Yerel Zemin Koşulları ve Temel Sisteminin Yapısal Hasara Etkisi	
17:15 - 17:30	From Masters: Tuğrul Tankut Deprem Sorununun En Çetin Boyutu	
17:30 - 17:45	Closing	

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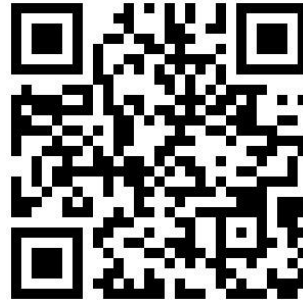


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