

TRABZON / TÜRKİYE



3rd INTERNATIONAL
**CIVIL ENGINEERING
AND ARCHITECTURE**
CONFERENCE

CONFERENCE PROGRAM

12 OCTOBER

13 OCTOBER

14 OCTOBER

CONFERENCE PROGRAM

'REGISTRATION

08.30 - 10.00

OPENING CEREMONY

10.00 - 11.00

Registration / Opening Speeches / Main Sponsor Presentation

COFFEE BREAK

11.00 - 11.15

PLENARY LECTURE

11.15 - 11.45

**PROF. DR.
RAAFAT EL-HACHA**

Shape Memory Alloy – A
Novel Material and System for
Strengthening and Reinforcing
Concrete Structures

PLENARY LECTURE

11.45 - 12.15

**MR. ÇAĞLA
ÖMÜR**

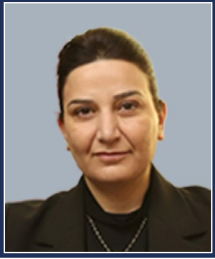
NKY's BIM Process

LUNCH

12.15 - 14.00

PANEL

14.00 - 18.00

**BANU
ASLAN**

Post-earthquake Studies and Future Preparations in the Coordination of the Ministry of Environment, Urbanization and Climate Change

**PROF. DR.
ERTUĞRUL TACİROĞLU**

Preparing for the Inevitable: Essential Capabilities for Seismic Resilience

**PROF. DR.
KÜRŞAT ESAT ALYAMAÇ**

AFAD's Tasks, Studies, and Forward Preparations After the Earthquake

**PROF. DR.
ALPER İLKİ**

Post-earthquake Damage Assessment Studies, Problems Experienced and Prospective Recommendations

**BÜNYAMİN
DERMAN**

Redesign of the Provinces Destroyed in the Earthquake by Considering Their Historical Identities: The Case of Hatay

**YOSHINORI
MORIWAKI**

Learning to Live with Earthquakes: The Importance of Primary Education

**PROF. DR.
AHMET CAN ALTUNIŞIK (MODERATOR)**

Technical Investigation Rules and Forward-Looking Suggestions for Buildings Destroyed after the Earthquake

DINNER

19.00 - 21.00

PLENARY LECTURE

09.00 - 09.30


**PROF. DR.
ERTUĞRUL TACİROĞLU**

Integrated workflows and technologies for assessment of seismic risks at regional scales

COFFEE BREAK

09.30 - 09.45

09.45-11.00 SESSION 1 CE

Bakır D, Savaş S

Experimental Investigation of the Displacement Behavior of Hollow Plates under Close Contact Explosion

Aydiner M F, Sevim B, Uzun S, Ayvaz Y, Ari A, Akbulut S

Seismic Performance and Reason of Failure Evaluation of Reinforced Concrete Structures Based on Field Investigation after Kahramanmaraş Earthquakes

Yüksel Y Z, Akbaş Ş D

Dynamic Analysis of Multi-Layered Semi-Infinite Media by using Finite and Infinite Elements

Gurbuz A, Kayıkcı F Y

Fragility Curves for 8-12 Storey Reinforced Concrete Buildings Build Between 2007 and 2018 in Türkiye

Yön B, Yeşilgül S, Şahin Yön M

Evaluation of The Contribution of FRP Wrap To Concrete Compressive Strength

Aydiner M F, Sevim B

Modeling and Evaluation of Soft Storeys Retrofitted With Buckling Restrained Braces

COFFEE BREAK

11.00 - 11.15

11.15-12.30 SESSION 2 CE

Sevim B, Alarçin M

Determination Of The Seismic Resilience Of Moment Resisting Reinforced Concrete Structure Which Is Designed According To Turkish Building Seismic Code 2018

Nguyen Q T, Livaoğlu R

Damage Detection of Ottoman Masonry Minarets: A Comparison Between Model-Based and Non-Model-Based Approaches

Kazaz İ

Recommendations for Shear Wall Design After The 6 February 2023 Kahramanmaraş Earthquakes

Sadid M S, Şahin F Z, Özcan Z, Nasery M M

A Comparative Study on the Modeling of Beams as Wire, Shell, and Solid Elements in 3D Simulation of the Masonry Building

Mortazavi A, Sarıbaş E

An Interface Developed for Post-Earthquake Damage Detection

Atar M

Application of Novel Sleeve Method in T-Stub Steel Connections

LUNCH

12.30 - 14.00

PLENARY LECTURE

14.00 - 14.30


**PROF. DR.
MUSTAFA ŞAHMARAN**

Best Environmental Practices in Earthquake Waste Management and New Generation Rapid Construction Techniques from Türkiye

COFFEE BREAK

14.30 - 14.45

14.45-16.15 SESSION 3 CE

Hejazi M, Hejazi M A, Sari A

Machine Learning Framework for The Modeling of Blast Wave Parameters: Confidence and Uncertainty

Biçici E

Effect of Longitudinal Steel Buckling on the Capacity of Reinforced Concrete Columns

Uzdil O

Comparison of Time History Analysis and Analytical Calculation for a Frame Type Structure

Uçar T, Merter O

Inelastic Displacement Ratios for Pulse-Like Ground Motions Recorded During The 2023 Pazarcık (Kahramanmaraş) Earthquake"

Hacıfendioğlu K, Karahasan O Ş, Bostan A, Aleit H

Structural Health Monitoring using Video Camera-Based Vibration Analysis

Uzdil O, Boduroğlu Yazıcı B

Structural Evaluation and Reinforcement Suggestions for a Historic Building

Merter O, Uçar T

An Investigation on The Elastic Input Energy Spectra of 2023 Kahramanmaraş, Türkiye Earthquake

COFFEE BREAK

16.15 - 16.30

16.30-18.00 SESSION 4 CE

Akbulut Y E, Sunca F, Altunışık A C

Investigation of The Seismic Performance of A Fire-Exposed Reinforced Concrete Frame with Shaking Table Tests

Yurdakul M

Optimal Design of SST Structures with Rao Algorithms

Sütbaş Ü, Ural A

Earthquake Analysis of Double-Shell Domes with Different Typologies

Sodagar M S, Girgin S. C, Dinçer H

Evaluation of Cyclic Modeling Parameters for Emulative-Welded Precast Beam-Column Connections

Ertürk Atmaca E, Genç A F, Altunışık A C

Evaluation of The Structural Performance of A Historical Turkish Hammam

Hacıfendioğlu K, Aslan T, Başağa H B, Duman C

Earthquake Simulation on Historic Masonry Minaret

Tretjakovas J, Pileckienė J

Decrease of The Geometrical Bending Properties of The Beam Due to Long-Term Corrosion

DINNER

19.00 - 21.00

COFFEE BREAK 09.30 - 09.45**09.45-11.00 SESSION 1 ARCH**

Rababah A, Al-Qudah A, Alibrahim M
A Piece of Artwork; A Gate Towards Memories

Aras A, Akgül Y
Recycling of Architectural Building Materials and Examination of Their Reuse in Buildings

Özyıldırım G
Assessment of Representation Tools for Experimental Studies in Architectural Psychology

Yazici M, Durmuş Öztürk S
A Bibliometric Analysis for Publications About Rem Koolhaas (1991-2023)

Koç H, Kasalı A
Case-Based Design Libraries in Healthcare Facility Design: Implementing Precedents for Enhanced Efficiency and Decision-Making

Karakul Ö
Mapping Places of Memory or Memories of Place as Integrity of Tangible And Intangible Values

COFFEE BREAK 11.00 - 11.15**11.15-12.30 SESSION 2 ARCH**

Bal Y, Şenkal Sezer F
Use of Pneumatic (Inflatable) Structures with Various Functions Post-Earthquake Disaster: The Case of Türkiye Kahramanmaraş Earthquakes

Tomakin İ, Karaman Öztaş S
Evaluation of Wood-Hybrid Building Systems Based on Current Applications

Kılıç Bakırhan E, Top S M
Production of Building Materials from Waste to Improve Energy Efficiency: A Review with Bibliometric Analysis

Bal Y, Arpacioğlu Ü T
Evaluation of Possible Advantages and Risks of Using Pneumatic (Inflatable) Structures in case of Earthquake Disaster Effects

Akgüç A
Assessing Progress of Turkey in Achieving Renewable Energy Targets Outlined in Energy Regulations

Şimşek D, Kutlu İ, Şık B
The Role and Applications of Artificial Intelligence (AI) in Disaster Management

LUNCH 12.30 - 14.00**COFFEE BREAK** 14.30 - 14.45**14.45-16.15 SESSION 3 ARCH**

Ofluoğlu S
BIM-enabled Facilities Management: MSGSU Bomonti Building Case

Gebel Ş, Top S M, Takva Ç, Gökgez B İ, İlerisoy Z Y, Şahmaran M
Investigation of Three-Dimensional Concrete Printing (3DCP) Technology in AEC Industry in the Context of Construction, Performance and Design

Mohamed A
Dialectics of Place Attachment in The Palestinian Village Dwelling- a Phenomenological Approach

Dahabrey S, AlAssaf N, Altarawneh D, Isawi H
The Aesthetics symptoms of architectural form: the case of the Rachofsky house by Richard Meier

Erdoğan Çiçekoğlu C, Çelen Öztürk A
The Importance of Historical and Cultural Identity in City Branding: The Case of Sinop City

Benli G, Kan T
Trabzon Ortahisar Traditional Houses Exemplifying Urban Identity Components

Kırcı O
Reading The Contemporary Addition with Fuzzy Logic by Example within The Scope of Architectural Conservation: Swimming-Hall in Gotha

COFFEE BREAK 16.15 - 16.30**16.30-18.00 SESSION 4 ARCH**

Bayram A H, Lívaoğlu B
Fluid Interaction effect on Performance Evaluation of 100 m3 Elevated Tanks

Rabi M
Assessment of The Bond Capacity for Stainless Steel Reinforcement Using Machine Learning

Onat O, Yön B, Uslu A, Öncü M E, Gör M, Varolüneş S, Karaşin İ B
Damage and Failure of Reinforced Concrete Structures After February 6, 2023 Kahramanmaraş Earthquakes (Malatya, Adiyaman, Elazığ And Diyarbakir)

Onat O, Deniz F, Özdemir E, Özmen A, Sayın E
Capacity Evaluation of Historical Yusuf Ziya Pasha Mosque and Damage Comparison After February 6, 2023 Kahramanmaraş Earthquakes

Baltacı A, Altunışık A C
Benchmark Study of A Steel Cantilever Beam Exposed to Fire Using Openses for Fire

Yazıcıoğlu A, Birinci A
Contact Problem of Two Layers one of Functionally Graded Layer, Loaded Via Rigid Circular Block and Resting on a Pasternak Foundation

Özdemir A, Tunctan J, Müderrisoğlu Z, Erdoğan H, Özkaynak H
A Comparative Application of Rapid Visual Screening Methods on the Seismic Prioritization of Reinforced Concrete Buildings

DINNER 19.00 - 21.00

COFFEE BREAK 09.30 - 09.45**09:45-11:00 SESSION 1 CE****Temel B A**

Examination of Individual Factors Affecting Job Satisfaction Levels of Construction Workers in Trabzon Province

Akoh S R, Mahmud A T, Ahmed S

Benefits of Building Information Modeling (BIM) in Mitigating Construction Cost and Schedule Overrun in Lagos State, Nigeria

Alkan İ B, Başağa H B

Augmented Reality with Hololens 2 and Innovative Applications in the Construction Industry

Özdoğan D B, Okuyucu D, Kocaman İ

Finite Element Model Calibration of the Erzurum Murat Pasha Mosque with Operational Modal Analysis

Kamber Yılmaz G, Başağa H B

A Study of the Factors Influencing the Location of Highway Construction Sites

Karataş R, Köken A

Analysis of Multi-Storey Steel Structures with Different Bracing Types

COFFEE BREAK 11.00 - 11.15**11:15-12:30 SESSION 2 CE****Altuntaş H B, Başağa H B**

Integration of Robotic Process Automation (RPA) Applications for the Construction Industry

Kazaz A, Yetim E

A Research on The Determination of Optimum Thermal Insulation Thickness and Cost Analysis in Buildings

Hatush Z, Khaled Z, Latif A

Applying Lean Six Sigma Methodology to Improve Project Management in Telecom Companies

Abuelaish R, Bahadır Ü, Toğan V

Analysis of Workflow Variability Causes in The Construction Projects

Karaman S, Tokdemir O B

Framework for AI-ready Quality Control System for Mega Projects

Eirgash M A, Toğan V

Utilizing The Golden Region Sampling to The Oppositional Aquila Optimizer in Multiple Objective Trade-Off Optimization Problems

LUNCH

12.30 - 14.00

COFFEE BREAK 14.30 - 14.45**14:45-16:15 SESSION 3 CE****Bettemir Ö H**

Economic Analysis of On-site Reconstruction of Heavily Damaged or Collapsed Buildings

Abushhiwa H, Teer S, Hatush Z

Risk Management in Construction Projects

Kekeç B, Bilim A, Bilim N

Occupational Health and Safety in Excavation Works

Bilim A, Kekeç B, Bilim N

Occupational Health and Safety in Tunnels

Elbibas H, Abdulhamid M A Latif, Hatush Z

Occupational Safety in Construction Projects

Ergen F, Bettemir Ö H

Improvement of 3D Visualization Capability of BIM Software

COFFEE BREAK 16.15 - 16.30**16:30-18:00 SESSION 4 CE****Erzurum T, Bettemir Ö H**

Collection of Environmental Performance Indicator Data and Comparison with Inventory of Carbon and Energy Data

Odunlami T, Harohlu H, Ahmed S, Saleh-Matter N

Investigating the Management of the Early Stages of the Building Project Life Cycle

Erzurum T, Bettemir Ö H

Complete Enumeration Algorithm for the Solution of Resource Leveling Problem

Bettemir Ö H

Development of a Framework System for the Cost and Output Computation of Massive Earthwork Tasks

Uzunkaya A, Bettemir Ö H

Proposal of Smart Contract Framework for the Acceptance of Paint Delivery to Construction Site

Bettemir Ö H

Comparison of the Net Present Value of Corporate Tax Deduction Amounts of the Depreciation Methods

DINNER

19.00 - 21.00

COFFEE BREAK 09.30 - 09.45**09:45-11:00 SESSION 1 CE****Bakır E, Yalçın E, Yılmaz M**

Self-Healing Capability of Asphalt Mixtures Using Encapsulated Rejuvenators: An Experimental by Fatigue and Wheel Tracking Tests

Azima M, Seyis S

Analyzing the Impacts of Green Roofs and Building Envelopes on Energy Consumption in High-Rise Buildings

Özçelikci E, Şahmaran M

A Comprehensive Approach and Best Practices to Circularizing Earthquake Wastes for Sustainable Development

Hüsem M, Çolakoğlu H E, Akbulut Y E, Yılmaz Y

The Behavior of Reinforced Concrete Frames Exposed to High Temperatures Under Cyclic Load Effect

Şen F, Sunca F, Altunışık A C

The Effect of Damage Measure on Fragility Curves for Isolated Buildings

Uzdil O

Determination of Seismic Performance of a Reinforced Concrete Structure

COFFEE BREAK 11.00 - 11.15**11:15-12:30 SESSION 2 CE****Bozdemir M G, Yeşilççek H, Oruç Ş**

Investigation of Low Temperature Behaviour of Boron Added Rosin Compound (BORB)

Kadioğlu T, Akpınar M V, Berber G

Investigation of the Performance of Polypropylene (PP) Fibers in Joints of Concrete Pavements

Güzel D, Altıntaş O

Investigating Passenger-based Ridership Fluctuations under Covid-19 Pandemic

Genç Z, Kırbaş U

Determination of The Pavement Current Condition of Interlocking Concrete Pavement Roads Through Driving Comfort

Seferoğlu M T

Determining The Importance of Roadside Ditches in Landslide Formation: The Case of Rural Areas of Ordu

Yalçın E, Özdemir A M, Furtana Yalçın B, Yılmaz M

Modeling The Flow Properties of Various Polymer Modified Bituminous Binders in Dynamic-Shear Domain

LUNCH

12.30 - 14.00

COFFEE BREAK 14.30 - 14.45**14:45-16:15 SESSION 3 CE****Subaşı A, Çelebi E, Kirtel O**

Vibration Absorbing Box for Reducing Train-Induced Environmental Ground Motions

Kabakuş N, Aslan M T

How Increased Electric Vehicle Ownership Has Changed Air Quality?

Yeşilççek H, Bozdemir M G, Oruç Ş

The Utilization of A New Synthesis Tall Oil-based Boron Additive at Low Temperatures

Köse O, Özuysal M

Determination of Vertiport Locations Using K-Means Algorithm for Urban Air Mobility (UAM) in İzmir Province

Akpolat M, Kök B V

Determination of Fatigue Life of Bio-Based Polyurethane and Crumb Rubber Modified Binders by Linear Amplitude Sweep Test

Çavdar E, Kumandaş A, Şahan N, Kabadayı E, Oruç Ş

Examination of the Physical Properties of PMMA Modified Bitumen prepared with a Mechanical Mixer in Laboratory Environment

COFFEE BREAK 16.15 - 16.30**16:30-18:00 SESSION 4 CE****Keskin F Ş, Martinez-Vazquez P, Baniotopoulos C**

Investigating the Environmental Sustainability Benefits of Structural Interventions on Buildings' Life Cycle: A Case Study on Land Emissions and Smog Potential

Türk A, Türk F, Keskin Ü S

Investigation of Damaged or Destroyed Buildings in 6 February Earthquakes in Terms of Aggregate Particle Size and Shape

Kumandaş A, Köktan U, Kırbaş U, Demir G, Şimşek A, Alışır S

Organic Based Geotextile Production Proposal with Bitumen and Hemp

Abogdera A, Hamza O, Elliott D

Impact of Leaching on The Chemical Environment of Concrete: The Significance of Supplementary Materials and Water Conditions

Çiza B, Kaya E, Yalçınkaya Ç

Effects of Using Silica Fume as a Viscosity Modifier on the Properties of 3D Printable Concrete

Hacrefendioglu K, Duman C

Calibration of Material Properties of Historical Masonry Minaret by using Operational Modal Test with Response Surface Method

Kalyoncu O

Investigating The Structural Performance of Geotechnically Isolated, Fire-Exposed Reinforced Concrete Buildings Under Kahramanmaraş Earthquakes

DINNER

19.00 - 21.00

COFFEE BREAK 09.30 - 09.45**09:45-11:00 SESSION 1 CE****Ghabaee S, Erken A**

Numeric study on Effect of Input motion, Relative Density, Ground Water Table and Underground Structure on Dynamic Behavior of Liquefiable Soil

Timurağaoğlu M Ö

Parametric Study on Dynamic Soil Structure Interaction Analysis

Günay A, Akbaş S O

Determination and comparison of phreatic lines in embankment dams using different methods in seepage analysis

Korkmaz B, Dayıoğlu A Y,

The effect of clay additives on pH variation in electric arc furnace steel slag

COFFEE BREAK 11.00 - 11.15**11:15-12:30 SESSION 2 CE****Kasap T, Yılmaz E, Sari M**

Cementitious fills with varying sand content as tailings replacement: Links to rheological, mechanical and microstructural properties

Sarı M, Yılmaz E, Kasap T

Characterizing strength/microstructural behavior of cemented copper tailings backfills incorporating slag: Links to different pH values

Köktaş U, Demir G

Determination of Dynamic Behavior of Cantilever Retaining Walls with Artificial Neural Network Model Optimized with Grey Wolf Algorithm

Erzene A Y, Toprak B

Evaluation Of Vertical Bearing Performance Of Piles With Elastic Pile Cap

İçen A

Effect of pulse-like ground-motions recorded during the Kahramanmaraş-Pazarlık earthquake on nonlinear site response analysis

Sarçın S, Öser C

Design of Soil Nails Based on New Turkish Deep Excavation Code

LUNCH

12.30 - 14.00

COFFEE BREAK 14.30 - 14.45**14.45-16.15 SESSION 3 CE****Marangoz H O, Anılan T, Karasu S**

Dam-Break Induced Flood Wave Propagation on a Residential Area by Derivation of Saint-Venant Equations

Yılmaz B, Aras E, Nacar S

Evaluation of The Impact of Climate Change on Monthly Mean Temperature at The Dam Basin Scale

Şan M, Nacar S, Kankal M, Bayram A

High and Low Group and Monotonic Trends of Monthly Precipitation in the Near Future (2030-2059) for Bursa Province, Türkiye, under the SSP5-8.5 Scenario

Görmüş T, Aydoğan B, Ayat B

Six-Decadal Trend of Offshore Wind Power Density in The Mediterranean

Aksoy B, Özölçer İ H

Statistical Analysis of Monthly Precipitation Data of Kastamonu Azdavay Station

Tuncer G, Sönmez O

Trend Analysis of Sapanca Lake Water Levels Using Mann-Kendall and Innovative Methods

Gül E, İkinciöğulları E

State-of-the-Art Bridge Pier Scour Modeling: Harnessing the Power of XgBoost and Runge Kutta Methods

Baki O T, Mete B, Yüksek Ö

Development of the Sediment Rating Curve in Galanima Basin, Trabzon, Türkiye

COFFEE BREAK 16.15 - 16.30**16.30-18.00 SESSION 4 CE****Çırak Karakaş Ç, Palancı M, Güvensoy G, Şenel Ş M**

Effect of Effective Stiffness Formulations of Seismic Codes on The Vibration Periods of RC Buildings

Aslanbay H H, Özbayrak A

Numerical Comparison of the Effect of Circular and Square Stirrups on Reinforced Concrete Beams

Hakan Ö, Livaoğlu R

Errors in Punching Control Assessment Insights from Comparative Earthquake Analyses in Flat Slab High-Rise Buildings

Şahin M C, Okur F Y, Sunca F, Günaydın M, Altunışık A C

Ambient Vibration Testing of a High Rise Building

Sadid M S, Ağcakoca E, Yaman Z, Nasery M M

Assessing Post-Earthquake Crack Effects on the Dynamic Behavior of Masonry Structures: A Numerical Study

Alemdar Z F, Balaban Y

Numerical Study of the Behavior of Semi-Rigid Top and Seat Angle Connections Under Monotonic Loading

Roudane B, Kaya A, Adanur S, Altunışık A C

Numerical Analysis of Stone Masonry Samples Strengthened with CFRP Strips: A Comparative Study

DINNER

19.00 - 21.00

09:00-10:00 SESSION 5 CE**Aydın E, Alemdar F**

Evaluation of Fatigue Behavior for Tubular Bracing Systems Using Finite Element Method

Özer E

The Effect of Earthquake Direction on Seismic Performance of Base-Isolated a Residential Building

Uzdil O

Determination of Earthquake Performance of a Residential Masonry Building

Kömür M A, Deneme İ Ö

Effect of Orientation Angle on Buckling of Square Plates with Elliptical Cutouts Subjected to Partial Edge Loads

Hejazı M, Sarı A

A Study on The Optimal Modelling of Laminated Glass

COFFEE BREAK 10.00 - 10.15**10:15-11:15 SESSION 6 CE****Aras F, Can M**

Use of Acceleration Measurements for Structural Health Monitoring of Rock Embarkment Dams

Akarsu O, Bayrak B, Maali M, Aydın A C

Prediction of RC Members Shear Strength: Machine Learning Approaches

Idriss B A, Sunca F, Günaydın M, Altunışık A C, Kahya V

Design Phases and Effectiveness of Tuned Liquid Damper and Tuned Liquid Column Damper in Seismic Induced Vibration

Avğın S, Köse M M

Investigation of Structural Damages on February 6, 2023 Pazarlık and Elbistan Earthquakes

Ateş S, Avşar Ö

The Impact of Ground Motion Incidence Angle for Skewed Highway Bridges Under Multi-Hazard Effects of Scour and Earthquake

COFFEE BREAK 11.15 - 11.30**11:30-12:30 SESSION 7 CE****Bab Y, Kutlu A, Eratlı N, Omurtag M H**

Quasi-Static Response of Viscoelastic Plates Based on Mixed FEM And HSDT

Ermis M, Aribas U N, Eratlı N, Omurtag M H

Static Analysis of Functionally Graded Porous Straight Beams via Mixed FEM

Kanığ D, Bab Y, Kutlu A, Omurtag M H

Mixed Finite Element Formulation for The Buckling Analysis of Laminated Composite Beams Using HSDT

Bekiroğlu S, Yılmaz M O, Şahinkaya Y, Öztürk M, Mollamahmutoğlu Ç

Investigation and Evaluation of Seismic Isolated Hospital Building Complexes in the Earthquake Zone Affected By Kahramanmaraş-Hatay Earthquake Sequence On February 6 and 20, 2023

LUNCH

12.30 - 14.00

14:00-15:10 SESSION 8 CE**Korkut F, Aksoy E, Erdil B**

The Rigidity Center of Buildings: Experiment vs Structural Analysis

Toplu E, Kayatürk D, Arslan Ş

Comparative Analysis of Peak Ground Accelerations Considering Epicenter Distances in Hatay and Kahramanmaraş Provinces during the 2023 Pazarlık Earthquake

Hacıfendiğlu K, Kahya V, Pembeoğlu S, Aslan T

Video Camera-Based Experimental Modal Tests for Steel Structure Footbridge Model

Navdar M B, Demir A

Investigating of Effects of Accelerometer Mounting Conditions on Ambient Vibration Measurements

Üstün A, Karabulut P M, Çömez İ, Özşahin T Ş

FEM Solution for Continuous Contact Problem of Two Functionally Graded Layers Sitting on Rigid Flat and Loaded with Two Rigid Flat Blocks

COFFEE BREAK 15.10 - 15.25**15:25-16:35 SESSION 9 CE****Akbulut Y E, Mostofi S, Baltacı A, Okur F Y, Altunışık A C**

Evaluating Sprinkler System Effectiveness in Fire Performance of Automated Car Park Structures

Sepil L D, Özgan K, Şimşek S, Kahya V

Damage Detection of Truss Structures Via a Combined SAP2000 OAPI and Teaching-Learning-Based Optimization

Baltacı A, Mostafi S, Akbulut Y E, Okur F Y, Altunışık A C

Thermo-Mechanical Analysis of A Multi-Story Steel Structure Using OpenSees for Fire

Nasery M M

Post-Earthquake Damage Assessment of Inaccessible Areas in the Harran Grand Mosque (Ulu Cami) Minaret Using Digital Twin Modelling

Hacıfendiğlu K, Barış B, Başağa H B

Automatic Defect Detection in Historical Stone Masonry Structures using Deep Learning-Based Segmentation Method

COFFEE BREAK 16.35 - 16.50**16:50-18:00 SESSION 10 CE****Sannah N, Demir S**

Effect of Accidental Joint Eccentricity on The Performance of Concentric Steel Braces

Yılmaz O, Bekiroğlu S

The Frictional and Elastomeric Seismic Joint Apparatus And Its Usage as a Steel Beam-to-Column Connection

Hayrioğlu S, Bekiroğlu S

Modeling of Plane Elasto-Plastic Reinforced Concrete Frame System with Developed Finite Element Algorithm

Coşgun S İ, Akoğuz H

An Experimental and Numerical Study on Aluminum Alloy Rods of a Metallic Dissipater: Comparison of Different Alloys

Ali M M, Adanur S, Altunışık A C, Sunca F, Günaydın M

Construction Stage Analysis of a Long Span Suspension Bridge

09:00-10:00 SESSION 5 CE**Kış E N, Özorhon G**

The Future of the Home at the Architecture/Science Fiction Intersection

Aras A, Seymen Z

Examination of Housing Designs Aimed at Addressing Post-Earthquake Shelter Needs

Altassan A, Bahobail M

Contemporary Changes in Saudi Arabian Mosques: Preserving Sanctity and Functionality

Yılmaz S, Yavru T E, Baş G Y, Günaydın M

The Role of Architectural Design in the Seismic Resistance of Masonry Buildings

Karaoğlu A

The Social Mission of Architecture: The Impact of Design-Oriented Organizations in the Post-Earthquake Period

COFFEE BREAK 10.00 - 10.15**10:15-11:15 SESSION 6 CE****Direk N, Direk Y S**

Necessary Measures to Dispose of the Wastes Generated During the Earthquake and Reduce Their Impact on the Environment

Top S M, Kılıç Bakırhan E

Exploring Post-Disaster Shelters with Bibliometric Analysis: A Comprehensive Literature Review

Aydın Ö, Ayhan M F

Bibliometric Analysis of Scientific Literature on Earthquake in Turkey

Yazıcı M, Eminağaoğlu Z

A Monographic Review on the Architecture of David Alan Chipperfield

Kazaz E

New Building in Historical Urban Texture: Trabzon-Pazarkapı District Governor's Office

COFFEE BREAK 11.15 - 11.30**11:30-12:30 SESSION 7 CE****Uluçay Temel M, Elmalı Şen D**

Analysing Dendriform Structured Architectural Designs in Terms of Transparency

Yetim E, Elmalı Şen D

Heidegger's Hut: A Reading Through "Place, Vernacular and Context"

Subaşı Direk Y.

Thinking About Disasters: An Architecture Design Studio Experience

Tuz A, Asyılı S

An Investigation into The Quality Management in Turkish Public Tendering System

LUNCH

12.30 - 14.00

14:00-15:10 SESSION 8 CE**Mohamed A**

Urban Design Quality Assessment-UDQA, in Gursu neighborhood, Antalya, Turkey

Metin B, Akin M K, Utkan M M

A Proposed Approach for Post-Earthquake Temporary Housing Design

Kasapoğlu M, Erçek Y D, Aslan M T

Disaster Waste Management Process: The Case of February 6 Earthquake

Manav A

The Effects of Morphological Changes on the Image of the City: The Example of Mersin Soğuksu Street

Subaşı Direk Y.

The Story of The Prestige Building: Why The Galeria was Destroyed

Taş F, Kazaz E

Refunctioning of Erzurum Zırnıklı Vehbi Bey Mansion

COFFEE BREAK 15.10 - 15.25**15:25-16:35 SESSION 9 CE****Kertsmik K A, Talvik M, Lytykangas K, Ilomets S, Kalamees T**

Building Carbon Footprint Comparison Between Building Permit and As-Built with Circular Material Usage

Başaran H, Yılmaz Erten Ş

Examination of Lighting Design in Museums: A case of Edirne Archaeology and Ethnography Museum

Atasoy A, Zağra Öz H Ç

Restoration Implementation Project of the Registered Turkish Bath Project in Lapseki 9th Block, 50th Parcel

Bakırhan B

Examination of Fire Safety in Historical Buildings in the Context of National and International Regulations

İmamoğlu Yılmaz E, Baş G Y, Yılmaz S, Yavru TE

Pneumatic Systems in the Representation of Earthquake-Damaged Cultural Heritage

COFFEE BREAK 16.35 - 16.50**16:50-18:00 SESSION 10 CE****Ateş Ş, Saif M**

Investigation of The Effect of Near Fault Ground Motion on a Steel Building

Altunışık A C, Karahasan A K

Investigation of the Effect of Number of Layers on the Compressive Strength of Concrete Samples Reinforced with Carbon Fiber Polymer by Numerical Methods

Yakak B, Kınalı N S, Atmaca B, Dede T, Ateş Ş

Optimization of Solar Panel Mounted Steel Space Truss Roof Systems with Jaya Algorithm

Ali M M, Adanur S, Altunışık A C, Sunca F, Kalkan Okur E

Near Fault and Far Fault Ground Motion Effects of a Long Span Suspension Bridge

Mangir A, Okumus V

Structural Behaviour of Sewage Shaft Structures Under High Reachstacker Utilization Loads

09:00-10:00 SESSION 5 CE**Kazaz A, Yetim E**

Investigation of Social Cost of Carbon(SCC) in The Context of Environmental Sustainability in The Housing Sector

Sabah R

Progressing Toward Sustainable Green Buildings: A Comprehensive Approach Using Real-Life Case Studies to Enhance Environmental Quality

Ahmed S, Mahmud A T, Akoh S R, Fatai O B

Exploring IPD and BIM as an Antidote to Fragmentation within the UK Public Construction Sector

Mostofi F, Tokdemir O B, Toğan V

Enhancing Construction Productivity Prediction through Variational Autoencoders and Graph Attention Network

Maleek R, Yavan F

Automatic Alignment of Point Clouds onto Building Information Modeling (BIM) in Regular Rectangular Buildings

COFFEE BREAK 10.00 - 10.15**10:15-11:15 SESSION 6 CE****Semerçioğlu İ N, Hacıfendioğlu K, Başağa H B, Temel B A**

Crack Detection of Roads in Karadeniz Technical University Campus with Image Segmentation Method

Hajizadeh S, Seyis S

Retrofit Strategies for A Nearly-Zero Energy Residential Building: A Case Study in Antalya, Turkey

Sabah R

An In-depth Exploration of Effective Project Management Tactics Through Real-life Case Study

Shafiq M T, Sami R M, Rauf A

A Case Study of Forensic Delay Analysis in the Construction of a Revamp Power Transmission Project

Boz E, Toğan V

Assessing the Compatibility of Internship Choices with Career Plans in Civil Engineering Education

COFFEE BREAK 11.15 - 11.30**11:30-12:30 SESSION 7 CE****Semerçioğlu İ N, Başağa H B, Tokdemir O B, Çıtırıtoğlu A**

The Use of Large Language Models in Civil and Geomatics Engineering

Betemir Ö H

Proposal of an Object-Relational Database for Cost and Resource Estimation of the Building Constructions

Kazaz A, Arslan G, Esendal H

Prioritizing Financial Risks in Construction Projects

Zitha T, Liphadzi M, Phuriwa U

Assessing The Impact of Employee Engagement Towards the Organization's Performance

LUNCH

12.30 - 14.00

14:00-15:10 SESSION 8 CE**Motamedi M, Semerçioğlu İ N, Başağa H B**

Harmonizing Horizons: A Comparative Odyssey of Occupational Health and Safety Regulations

Özten T, Tunalı A, Özbek K B, Seyis S

How to Select The Appropriate Location for a Sustainable Healthcare Facility According to LEED?

Karataş İ, Budak A

Classification of Construction Roughcasting Activities by Random Forest Algorithm

Gürbüz M, Kocaman İ

The Effect of The 11 June 2023 Eğerti-Erzurum Earthquake (Mw 4.6) on Masonry Structures

COFFEE BREAK 15.10 - 15.25**15:25-16:35 SESSION 9 CE****Elzainy A, Girgin S C, Yalçinkaya Ç**

Numerical Investigation of Concrete Material Model for Ultra-High Performance Concrete

İbrahimov E, Özyurt E

Finite Element Study on Axially Loaded Welded Tubular Connections Made of High-Strength Steel

Aleit H, Bostan A, Hacıfendioğlu K, Volkan K, Pembeoğlu S

Magnification of Structural Behavior through Video-Based Motion Processing

Öncü Davas S

Local Site Effects on The Acceleration Response of The Nonstructural Contents Located on The Seismically Isolated Buildings

Demir A

Evaluation of the Seismic Demands of Kahramanmaraş Pazarcık Earthquake (Mw=7.7) using Nonlinear Time History Analysis of Single Degree of Freedom Systems

COFFEE BREAK 16.35 - 16.50**16:50-18:00 SESSION 10 CE****Ekinci M Ö, Demiral N Ç, Özçelikci E, Şahmaran M**

Effect of Recycled Concrete Aggregate Gradation and Aggregate/Binder Ratio on Hardened Properties of CDW-Based Geopolymer Mortars

Khabaz A, Salih A S, Alwani A H

Green Design of Rotatable Building Using Natural Wind Loads

Tülen H, Atalay H M

Effect of The Vertical Component of Earthquakes on Seismic Performance of The Reinforced Concrete Buildings with Vertical Irregularity

Genç A F, Atmaca E E, Altunışık A C, Adanur S

Determining The Collapse Mechanism of a Historical Minaret Under The Earthquake Effect by Finite Element Simulation

Uysal Y, Aksoylu C, Özkılıç Y O, Başaran B, Arslan M H

A Novel Easy Apply Method on Strengthening RC Shear Deficient Members: 45° Angled Mechanical Steel Stitches

09:00-10:00 SESSION 5 CE**Zor Ö, Yavuz A, Yıldız S A, Keskin Ü S**

Binding Materials Used as Cement Replacement in Foam Concrete and Their Effects on Strength and Fresh Properties

Kandil U

The Effect of Using Metakaolin and Curing Time on the Mechanical Properties and Sorptivity of Concrete and the Relationship Between the Results

Mohammed H, Hacham H

Investigation of Producing Green Concrete from Sewage Sludge in Concrete Pavements

Nayır S

Investigation Effect of Neoprene Capping Material on Strength of Concrete Cylinders

COFFEE BREAK 10.00 - 10.15**10:15-11:15 SESSION 6 CE****Kuşkapan E, Çodur M Y, Çodur M K**

Measures to Increase Pedestrian Safety on Road Sections with High Pedestrian Density

Özden A, Şahin S N A, Karataş H, Koç F, Düzcan B

A Design to Future Sustainable Mobility: Urban Air Mobility Hub Framework

Çoruh E

Highway Safety and Rockfalls: The Case of the Gümüşhane Intercity Highway

Demirtürk D, Öztürk H I, Güler M

Using Calorimetry-Based Method for Measuring Specific Heat Capacity of Asphalt Concrete

COFFEE BREAK 11.15 - 11.30**11:30-12:30 SESSION 7 CE****Berber G, Akpınar M V, Kadioğlu T**

Investigation of UK Noise Maps in the Highway Lgag Noise Parameter

Sarı F A, Öztürk İ Ş, Emiroğlu M

Examination of Parameters Impacting Flexural and Shear Strengthening of RC Beams

Sınanmış B R, Ekmekçi M

Exploring Earthquake Impact: Field Investigations and Rehabilitation Proposals for Transport Infrastructure in the Aftermath of the February 2023 Earthquake in Turkey

Kuşkapan E, Çodur M

Risk Analysis of Speed Violations in the City Using Machine Learning

LUNCH

12.30 - 14.00

14:00-15:10 SESSION 8 CE**Sencar İ, Sevim B**

Blast Performance Comparisons of Reinforcement Structure System and Composite Structural Systems

Aras F, Tufan T

Can The Concrete Class of An Existing RC Building be Determined by Operational Modal Analysis?

Dedeoğlu İ Ö, Calayır Y, Yetkin M, Erkek H

Examination of Kahramanmaraş Earthquakes in Terms of Energy

Vuran E

A Comparison of Seismic Design Codes of Türkiye and a Review of Consequences of 2023 Kahramanmaraş Earthquake Sequence

Roudane B, Kaya A, Adanur S, Altunışık A C

Crack Prediction in Dam Model using XFEM without Initial Crack Propagation in ABAQUS Software

COFFEE BREAK 15.10 - 15.25**15:25-16:35 SESSION 9 CE****Kurt Z, Çakmak T, Ustabaş İ**

Investigation of Mechanical Properties of Geopolymer Concretes with Obsidian Powder, Blast Furnace Slag and Metakaolin

Chamatete K, Yalçınkaya Ç

Evaluation of Thermal Insulation Performance of 3D Printed Concrete Walls

Küçük M, Hejazı M, Sarı A

A Novel Spring-Actuated Low-Velocity Impact Testing

Efe M, Öz A, Bayrak B, Kaplan G, Kılıç M, Alcan H G, Çelebi O, Aydın A C

Experimental Investigation of The Mechanical and Physical Properties of Geopolymer Concrete Containing Zeolite

Aktürk B, Uysal M, Aygün B F, Bilir T

Mechanical Properties of Different Fibers in Brick Powder Added Geopolymer Composites Including Concrete Powder

COFFEE BREAK 16.35 - 16.50**16:50-18:00 SESSION 10 CE****Mumcuoğlu A M, Koseoğlu A E, Mihcıyazgan C, Avşar İ, Aygün B F, Kılıç A, Uysal M**

Investigation of Ceramic Powder-based Geopolymer Mortars Containing Different Activators

Hatem M, Özel B, Günal M F, Şahmaran M

A Preliminary Sustainability Investigation of Construction and Demolition Waste-based Engineered Geopolymer Composites

Sönmez Tuğluca M, İlcan H, Şahmaran M

Alkali-Treated Waste Wood Fiber Reinforcement for Geopolymer Composites: A Sustainable Approach for Waste Management

Albaghdadi A, Almajdoub A, Hatush Z, Latif A

Effect of Adding High Density Polystyrene on Concrete

Altuntaş İ O, Öztürk O, Yıldırım G, Keskin Ü S

Limestone Calcined Clay Cement (LC3) Mortars Having Different Types of Low-quality Turkish Clays

09:00-10:00 SESSION 5 CE

Yılmaz Y, Cüre E, Türker E, Altuntaş O Y
Evaluation of Potential Liquefaction in Soils

Ateş B, Şadoğlu E
Numerical Investigation of Interference Effect for Closely Spaced Footings Subjected to Vertical and Eccentric Loading

Çağdaş B, Toprak B
The Effect of Toe Loading and Toe Damage on Slope Stability at Different Water Levels

Angın Z, Karahasan O Ş, İkizler S B
Investigation of The Effect of Soil on Structural Behavior Using Shaking Table

COFFEE BREAK 10.00 - 10.15**10:15-11:15 SESSION 6 CE**

Kaya F, Polat M T, Polat A
Analysis of the discontinuous contact problem between functionally graded layers with polynomial regression

Yılmaz Y, Öztürk F, Demir S, Pul S
Experimental and Numerical Investigation of Cold Formed Lipped Channel Profiles Behaviour Under Axial and Eccentric Loading

Mohamed I, Kahya V
Buckling Analysis of Functionally Graded Sandwich Beam with Porous Core Resting on Two-Parameter Elastic Foundation Based on a Quasi-3D Theory

Şimşek S, Kahya V, Toğan V, Altunışık A C
Assessment of modal-based damage indicators in high-noise conditions: An application to laminated composite beams

COFFEE BREAK 11.15 - 11.30**11:30-12:30 SESSION 7 CE**

Solak A, Kamanlı M, Özsarıkaya K M
The Effect of Vertical Earthquake on Columns of Reinforced Concrete Structure

Mostofi S, Altunışık A C, Akbulut Y E
Fire Risk Assessment of Suspension Bridge Towers Under Varying Vehicle Load Conditions: A Simulation Study

Sögüt K, Dirar S, Theofanous M, Faramarzi A
Effect of Shear Span-to-Effective Depth Ratio on The Behaviour RC T-Beams Strengthened with Embedded CFRP Bars

Solak H, İskender C, İskender E, Aksoy A, Altuntaş H D
Comparison of SBS and Elvax/Elvaloy Modified Asphalt Mixtures

LUNCH 12.30 - 14.00**14:00-15:10 SESSION 8 CE**

Şibil R
Velocity Fields Estimations on Trapezoidal Open Channel by Analytically and Numerically

Aras E, Boz B, Vaheddoost B, Yılmaz D
Evaluation of the most suitable underground dam site under basic parameters in bursa

Savaş M, Aras E, Vaheddoost B, Yılmaz D
The Analysis of Snowfall Drought in Erzurum Province Using SSPI Index

Dilmen Ö, Nacar S, Görmüş E T, Bayram A
Estimation of Water Turbidity in the Cheney Reservoir, Kansas, USA, Using Landsat 8 Images

Nacar S, Mete B, Tokgöz B S, Bayram A
Investigation of Historical and Future Trends for Seawater Temperatures: A case Study for Giresun Meteorological Observation Station, Southeastern Black Sea

COFFEE BREAK 15.10 - 15.25**15:25-16:35 SESSION 9 CE**

Coşkun C, Teymür B
Investigation of 2D Finite Element Modeling of Tunnel Improvements with Umbrella Arches in Extreme Clayey Soil Conditions

Ateş B, Şadoğlu E
Evaluation of bearing capacity increment of strip footing resting on soil reinforced by wraparound technique

Kömürlü E
A Case Study on Low Rock Material Strength Values Effect on Soft Rock Mass Classifications Using The RMR System

Alkçay B, Sivrikaya O
The Effect of The Distance of Strip Foundations from The Edge of a Horizontal Top Surface of Slope with Cohesionless Soil on Bearing Capacity

Demirci N, Ören A H
Measuring Vertical Deformations of Geosynthetic Clay Liners (GCLs) during Hydraulic Conductivity Tests by Modifying Flexible-Wall Permeameter

COFFEE BREAK 16.35 - 16.50**16:50-18:00 SESSION 10 CE**

Polat E
Concrete-filled composite plate shear wall (C-PSW/CF) behavior under flexural torsion

Önalın F, Sunca F, Altunışık A C
Analysis of The Effect of Different Concrete Strength Classes Used in Reinforced Concrete Structures Under the Dynamic Pressure Effect Caused by Different Explosion Scenarios

Uzun S, Ayvaz Y
Implementation of Five-Node Mapped Infinite Element to Opensees

Koç S, Adıyaman G
Bending Analysis of Carbon Nanotube Reinforced Composite Beams by Using Higher Order Shear Deformation Theory

Dedeoğlu İ Ö, Yetkin M, Erkek H, Calayır Y
Nonlinear Earthquake Response of The Historic Ahi Musa Masjid

Mostofi S, Altunışık AC, Okur F Y
Fire assessment of suspension bridge towers: A machine learning-based prediction of AST under varying vehicle fire conditions



**KARADENİZ
TEKNİK ÜNİVERSİTESİ**
İnşaat Mühendisliği



**KARADENİZ
TEKNİK ÜNİVERSİTESİ**
Deprem ve Yapı Sağlığı Uygulama ve
Araştırma Merkezi



**KARADENİZ
TEKNİK ÜNİVERSİTESİ**
Mimarlık Bölümü



**TMMOB
İNŞAAT
MÜHENDİSLERİ
ODASI**
Trabzon Şubesi



**tmmob
mimarlar
odası**
Trabzon Şubesi



ES GROUP
Geleceğin sözü.



3rd INTERNATIONAL
**CIVIL ENGINEERING
AND ARCHITECTURE**
CONFERENCE

TRABZON / TÜRKİYE