



Dear Colleague,

We are pleased to announce the "**4th International Symposium of Engineering Applications on Civil Engineering and Earth Sciences 2023 (IEACES2023)**" on 31 May-2 June 2023. We would like to see you among us for IEACES2023 and we sincerely invite you.

IEACES2023 is a global platform where engineering applications related to Civil Engineering and Earth Sciences will be discussed with researchers, engineers, and decision-makers. The symposium covers the topics of "Geotechnical Engineering and Engineering Geology", "Earthquake Engineering", "Structural Engineering", "Construction and Building Materials", "Transportation Systems and Engineering", "Water Resources Engineering and Hydrology", "Environmental Engineering", "Disaster Reduction and Prevention", "Geothermal Energy", "Geology", "Geophysics", "Geochemistry", and "Architecture and Urban Planning".

We hope that many scientists who are experts in their fields will contribute to the literature on the subject by sharing their knowledge, ideas, and experiences with a wide national and international participation.

The selected papers to be presented at this international conference will be published in SCI journals or Disaster Science and Engineering. Please don't hesitate to contact me for further information. IEACES2023 symposium will be held in a hybrid structure this year that will allow both face to face and virtual presentations.

Abstract Submission, important dates, committees, keynote speakers, venue and further details of IEACES2023 are all announced on our website at <http://ieaces.karabuk.edu.tr/>

We look forward to seeing you at the IEACES2023 (31 May-2-3 June 2023) at Karabuk University (Safranbolu), TURKEY.

Best wishes,

Assoc. Prof. Dr. İnan KESKİN

On behalf of the symposium organizing committee

Note: The official languages of the symposium are Turkish and English. Papers will be accepted in both languages. The symposium papers will be peer-reviewed on the extended summary, and you can download the template file through symposium web page (<http://ieaces.karabuk.edu.tr/>)

	Face-to-face	Online	For Each Paper After First Paper
Oral or Poster Presentation	500 TL / 50 €	500 TL / 50 €	100 TL / 10 €
Student Oral or Poster Presentation	400 TL / 40 €	250 TL / 25 €	100 TL / 10 €

Please visit the web page for student discounts and additional information.

Important Dates

Deadline for Submission	April 01, 2023
Announcement of acceptance of submissions	May 01, 2023
Deadline for payment	May 01, 2023
Announcement of program	20 May-25 May 2023
Conference dates	31 May- 1-2 June, 2023

City of Safranbolu

The City of Safranbolu is a typical Ottoman city, with typical buildings and streets, and played a key role in the caravan trade over many centuries. The settlement developed as a trading center after the Turkish conquest in the 11th century, and by the 13th century, it had become an important caravan station. Its layout demonstrates the organic growth of the town in response to economic expansion, and its buildings are representative of its evolving socio-economic structure up to the disappearance of the traditional caravan routes and beyond..... ***Please see the introductory page for details.***

<https://whc.unesco.org/en/list/614>





SYMPOSIUM TOPICS

Geotechnical Engineering and Engineering Geology

Dams and Tunnelling
Engineering Geology
Geoenvironmental related topics
Geohazards and Risk Assessment
Geotechnical Infrastructure
Geosynthetics and Geo-Products
Marine Geotechnics
Mining and Geotechnics
Design and Modelling
Soil and Rock Mechanics and Characterization
Soil Improvement Methods
Sustainable Development
Site Investigation and Terrain Characterization
Transportation Geotechnics

Earthquake Engineering

Principles of performance-based earthquake engineering
Seismic hazard and seismic risk analysis
Geotechnical earthquake engineering
Pushover-based methods
Nonlinear response history methods
Passive energy systems
Seismic isolation
Nonbuilding structures
Seismic response analysis
Seismic behavior
Application and implementation of ecological design
Seismic fragility analysis
Dynamic stress concentration
Seismic reliability analysis
Seismic damage analyses
Seismic effect
Mechanical behavior
Seismic performance
Seismic risk assessment

Structural Engineering

Structural design engineering
Structural design of tall and special buildings
Structural design and analysis
Design of members in direct tension and compression
Civil engineering structural design
Computerized structural design
Architectural structural design
Structural design and construction engineering technology
Performance-based structural design
Structural design and construction



Design of simple beams
Structural design software
Structural design process
Philosophy of designing

Construction and Building Materials

Metallic Alloys, Tool Materials
Superplastic Materials
Ceramics and Glasses
Composites
Amorphous Materials
Nanomaterials, Biomaterials
Multifunctional Materials
Smart Materials
Engineering Polymers
Functional materials
Nuclear fuel materials
Biomaterials, sensors and surfaces
Thin Film Chalcogenide Photovoltaic Materials
Nuclear Materials IV
Magnetic Materials

Transportation Systems and Engineering

Theory and Applications of Traffic Engineering
Traffic Control and Information Technology
Transportation and Socioeconomic Development
Transportation Security, Environmental Protection, and Sustainable Development
Urban Public Transportation Planning and Management
High-speed Railway Planning, Construction, and Operation Organization
Transportation Safety
Transportation Planning
Air Transportation
Marine Transportation
Metropolitan Transportation
Freight Transportation
Rail and Transit Systems
Transportation Planning and System Optimization
Intelligent Transportation Systems

Water Resources Engineering and Hydrology

Underground Water Resources
Urban Water Treatment
Water Conservation in Agriculture
Water Conservation in Industry
Water Conservation in Urban Areas
Water Harvesting and Groundwater Recharge
Water Measuring Devices
Water Resources
Water resources management



Water resources modelling
Water resources systems
Water use efficiency/productivity and irrigation methods
Watershed hydrology
Remote Sensing and GIS Applications for Water Resources Management
Surface and groundwater mobilization
Sustainability of Water Resources
Hydraulics Engineering
Hydro Power Engineering
Hydrology
Innovative Methods for Rain and Runoff Water Modelling
Innovative Methods for Water Production from Non-Traditional Water Resources
Isotope hydrology/hydrogeology
Meteorology

Environmental Engineering

Soil decontamination
Eco-technology
Bio-engineering
Environmental sustainability
Resource management
Life cycle analysis
Environmental systems approach
Renewable sources of energy-energy savings
Clean technologies
Health and the Environment
Health related organisms
Hazardous substances and detection techniques
Biodegradation of hazardous substances
Toxicity assessment and epidemiological studies
Management and regulation of point and diffuse pollution
Wastewater and sludge treatment
Anaerobic treatment
Process modelling
Sludge treatment and reuse
Industrial wastewater treatment
Air pollution and control
Atmospheric modelling and numerical prediction
Control technologies
Air emission trading
Solid waste management
Waste valorization
Leachate treatment

Disaster Reduction and Prevention

Disaster prevention engineering
Disaster prevention and mitigation
Disaster prevention and mitigation in civil engineering
Earthquake engineering and simulation techniques



Computer simulation and experiments for disaster prevention
Fracture behavior of bridge structures in massive earthquakes
Wind resistance of engineering structure
Earthquake resistance of engineering structure
Building fire prevention theory and technology
Engineering structure vibration control
Engineering disaster monitoring and prevention
Disaster risk reduction and management
Hazards and disasters studies
Climate change adaptation
Socio-economic aspects/impacts of disasters

Geothermal Energy

Geothermal power
Geothermal energy for power generation
Geothermal power production
Resources of geothermal power
Geothermal power plants and applications
Geothermal power plants design and performance
Dry steam power stations
Flash steam power stations
Binary cycle power stations
Worldwide production
Utility-grade stations
Environmental impact of geothermal power plants

Geology

Structural geology and Tectonics
Geochemistry
Engineering geology
Geospatial analysis and geologic mapping
Engineering mitigation of volcanic geohazards
Earthquake and structural engineering
Spatial analysis and remote sensing
Geological and geotechnical analysis, and design
Structural planning
Environmental impact analysis
Civil or structural engineering design
Value engineering
Geological hazard assessments
Geotechnical, material properties
Landslide and slope stability
Erosion, flooding, dewatering, and seismic investigations
Soil and rock mechanics
Geologic field mapping of geologic structures
Geologic formations
Soil units and hazards
Global positioning system
Geophysical surveys



Deformation monitoring
Earthquake engineering
Volcanology

Geophysics

New Exploration Technologies
Electrical and EM Methods
Advances in near surface seismic
Passive Seismic/microseismic
Airborne EM
3D inversion
Geological interpretation of geophysical datasets
Borehole geophysics and logging in hard rock environments
Potential Field Methods
Data visualisation
Petroleum geophysics
Seismic Acquisition
Seismic Processing
Seismic Interpretation
Seismic velocities and applications
Geophysical inversion
Geological interpretation of geophysical datasets
Archaeological investigations

Architecture and Urban Planning

Architectural Design and Theories
Advanced Construction Materials
Aesthetics and Landscape
Architectural Design and Its Theory
Architectural Environment & Equipment Engineering
Architecture and Building Materials
Building Energy Saving Technology
Building Technology Science
Construction and Renewable Energy Sources
Ecological Architecture
Ecological Construction and Intelligent Control
Green Building Materials
Green Construction and Environmental Protection
Landscape Planning and Design
Traditional Construction Materials





4TH INTERNATIONAL SYMPOSIUM OF ENGINEERING APPLICATIONS ON CIVIL ENGINEERING AND EARTH SCIENCES



31 MAY - 2 JUNE

2023

ieaces.karabuk.edu.tr
ieaces@karabuk.edu.tr

