



Auditorium of Damascus University, 28 November 2022

8h30-10h00 (UTC+3)

Opening ceremony

- Dean of HIESR
- President of Damascus University
- Syrian Minister of Higher Education and Scientific Research
- Governor of Damascus

Auditorium of Damascus University, 28 November 2022

10h30-12h10 (UTC+3) Keynote lectures

Chairpersons Pierre MATAR, Firas AL MAHMOUD

- Elhem GHORBEL, Cy Cergy Paris University, France
- Hakim S. ABDELGADER, University of Tripoli, Libya
- Ioan PEPENAR, ICECON GROUP, Romania
- Abdeljelil BELARBI, University of Houston, USA
- Discussion

Auditorium of Damascus University, 28 November 2022

12h30-14h10 (UTC+3) Keynote lectures

Chairpersons Maral SARKIS, Inês FLORES-COLEN

- Tabassum NAQVI, Aligarh Muslim University (AMU), India
- Nariman KHALIL, University of Balamand, Lebanon
- Abbas A. ALLAWI, University of Baghdad, Iraq
- Hussain SALEH, HIESR, Syria
- Discussion





Auditorium 1 (Rida Said), 28 November 2022

15h10-17h00 (UTC+3) Keynote lectures

Chairpersons Riad ALISSA, Ghada BILAL

- Raoul François, INSA-Toulouse, France
- Tammam BAKEER, TU Dresden, Germany
- Nikola TOŠIĆ, Polytechnic University of Catalonia-Spain
- Chiara CALDERINI, University of Genova, Italy
- Anna MARZO, Research Center ENEA Bologna, Italy
- Discussion

Auditorium 2 (Theatre), 28 November 2022

15h10-17h00 (UTC+3) Keynote lectures

Chairpersons Mayada ALKOUSA, Mehair YACOUBIAN

- Jean-Michel TORRENTI, University Gustave Eiffel, France
- Jamal ELKHATIB, University of Wolverhampton, UK
- Jules ASSIH, University of Reims, France
- Shahria ALAM, University of British Columbia, Canada
- Belén GONZÁLEZ-FONTEBOA, University A. Coruna, Spain
- Discussion

Auditorium 3 (Museum), 28 November 2022

15h10-17h00 (UTC+3) Keynote lectures

Chairpersons Fatima ALSALEH, Osama DARWISH

- Cinzia BURATTI, University of Perugia, Italy
- Youssef DIAB, Gustave Eiffel University, France
- Sheela ESHWARIAH, Housing Corporation, Telangana Govt
- Shilpa PAL, Delhi Technological University (DTU), India
- Pradeep GOYAL, Delhi Technological University (DTU), India
- Hussein NOFAL, Syrian Insurance Federation
- Discussion





Auditorium 1 (Rida Said), 29 November 2022

9h00-10h40 (Reinforced concrete)

Chairpersons Moaid SUBH, Wesam AL AGHA

Bello, Wardeh, González-Fonteboa, Martínez-Abella 'Non-Contact Strain Measurement of Concrete under Loading-Unloading Splitting Test'

Abdul Qader Melhem 'Suggesting of a simplified analytical model for strengthening of reinforced circular concrete columns exposed to combined bending '

Alaa Hassoon 'Using of gypsum waste as alternative to concrete in light gauge filled steel tube columns'

BAKLEH,HASAN,WARDEH 'Analytical Model for the Prediction of Instantaneous and Long-Term Behavior of RC Beams under Static Sustained Service Loads'

Discussion

11h00-12h40 (Reinforced concrete)

Chairpersons Essam MELHEM, Marco BRECCOLOTTI

MOHAMAD, WARDEH ,ALKOUSA 'Analytical Assessment of the Tension Stiffening and Cracks Development in Reinforced Concrete Beams'

Takla, Tarsha 'Thermal analysis using ANSYS Workbench Program'

Hasan 'Artificial Intelligence in Prediction of Shear Beams Strength'

Mubarak, Hwaija ,Nasser 'Effective Strain for FRP Strips of Non-Surface Mounted Strengthened RC Beams Prediction Using Neuro-Fuzzy Network'

Ang KEO,BALAYSSAC,VILLAIN, FARGIER,YVEN' Accelerated Aging of Embedded Electrical Resistivity Sensor for Monitoring Concrete Structures'

Discussion

13h10-14h50 (Reinforced concrete)

Chairpersons Mounir ALATRACH, Samer SULEIMAN

Ang KEO, DE LARRARD, DUPRAT, GEOFFROY' Predictive Model for Corrosion Alarm in Reinforced Concrete Structures based on Bayesian Network and NDT Data: an Effective Tool for Maintenance Strategy'

Ang Keo, Grochowalska, Brachelet, Defer, Yune 'Structural Health Monitoring of Civil Engineering Structures by Active Infrared Thermography Methods '

R. Boissière,F. Al Mahmoud, Ghassoun, Khelil, Hamaidia 'Experimental study on the behavior of Recycled Coarse and Fine Aggregates concrete columns under eccentric loads'

Kadoon, Hawija, Abbass 'Ductility enhancement of RC beams strengthened with NSM-Shape Memory Alloys technique'

B. MOHAMAD "Standards and Guidelines to Follow When Assessing CFRP's Role in Strengthening RC Columns"





Auditorium 2 (Theatre), 29 November 2022

9h00-10h40 (Environment)

Chairpersons Khawla MANSSOUR, Heba ALJADOU

Al-Hjoo' Using Foam Concrete to Improve the Efficiency of Aeration Tanks in Wastewater Treatment Plants'

Shehab, Hadad 'Rehabilitation Of Aeration Tanks By Using Pumice Stone'

Al Jaddou, AL mofti 'Predicting the Mixed Liquid Suspended Solids in The Aeration Tanks in Activated Sludge System using artificial intelligence techniques'

Al Zir, ABDULLAH 'Prediction Of Temperature Changes of Homs climate station'

Discussion

11h00-12h40 (Environment)

Chairpersons Bassam ALAJI, Ruba ALSAEED

M. Morsli, f. Aouad, a. Samdi, m. Tahiri 'Valorization of Demolition and Construction Wastes Rejected over Moroccan Cities, Contribution to The Decarbonation of the Country, Economic Development And Resources Save'

Alsaeed, Alaji, Ibrahim "Early Warning System for Predicting Turbidity and Aluminum in Drinking Water Purification Plants"

Shabaan 'Effect of the Organic Carbon on the Efficiency of Reducing the Concentration of Nitrogenous Compounds in Wastewater Using SNAD Reactor'

Mohamad, Yousef 'A Study of the Possibility of Using Solid Waste as an Alternative Fuel RDF in the Cement Industry in Syria'

RHANDOURIATE, NAIMI, SAGHIR, ZAHOUILI, TAHIRI 'Comparative study of performance improvement of anaerobic digestion and co-digestion of fruit and vegetable residues'

Discussion

13h10-14h50 (Materials)

Chairpersons Afif RAHMA, Suzan H SULEIMAN

Bellei, Veloso, Flores-Colen, Mendes 'The Use of Industrial Waste in Coating Mortars'

Soumia Kheira Sebsadji. 'A unified equation to represent optimized aggregate gradations for concrete'

Bashir, Nasar Khan, Khitab 'Performance evaluation of concrete containing 30% partial replacement of cement by ground granulated blast furnace slag through destructive and non-destructive'

El Hamoui, Raydan, Jahami, El Khatib "A Critical Review of Fly Ash Geopolymer Concrete"

KHEIRBEK, Ibrahim, Asaad, WARDEH "Durability of Roller Compacted Concrete Formulated with Coarse Recycled Aggregates"





Auditorium 3 (Museum), 29 November 2022

9h00-10h40 (Materials)

Chairpersons Majed ASAAD, Khyati Saggu

Alsaleh, Al adday Producing mixtures of Sustainable Recycled Aggregate Concrete to Be Used for Internal and External Artificial Cladding'

Zaidi, Naqvi, Khan. 'Behaviour of silica fumes modified recycled aggregate concrete at elevated temperatures'

Salahaddin, Haido, WARDEH. 'The behavior of Ultra-High Performance Concrete (UHPC) Prepared with Different Mix Design Parameters'

Yang, Kamali. 'Comparisons of ITZ properties between limestone and granite aggregates'

Discussion

11h00-12h40 (Materials)

Chairpersons Ali KHEIRBEK, Ghoson DANHASH

KHEIRBEK, MAKKIEH, ABUDERAH. Effect of Using Nano Crystalline Admixture on the Gas Permeability of Concrete'

M. Deghfel, A. Meddah, M. Chikouche, M. Beddar. The coupling effect of curing temperature and relative humidity on the mechanical behavior of roller compacted concrete pavement (RCCP)'

Seini Moussa, Lawane, Djoubissie. 'Influence of samples dimensions and anisotropy on the characteristic values of laterite dimension stone from Burkina Faso'

IBRAHIM, FARES, WARDEH. 'Digital Image Correlation for Post Cracking Assessment on Synthetic Fiber-Reinforced Mortar'

Bala , Abba Musa , Bakari . 'MECHANICAL PROPERTIES OF EARTH-HAY BRICKS USED AS A WALLING MATERIAL FOR BUILDINGS'

Discussion

13h10-14h50 (Geotechinc and Risk)

Chairpersons Maïasa MLHEM, Samar AUDE

Fayad, Alsakr, Alabdeh. 'Effect of Cement Kiln Dust (CKD) Grouting on Shear Behavior of Costal Sandy Soil'

Merlin, Chills, Landry, Emmanuel, AMBASSA. 'Investigation of differential shrinkage in a revolution shell structure by multilayer approach'

Hssn, Abo Diab , Hwaija .' Simple Application of the Modified Finite Element Method Displacement Approach for Geometrical Nonlinear Analysis of Composite Plates'

Ang Keo, Yune. 'Structural Health Monitoring of Tunnels in Cold Region by Analysis of Temporal Temperature during Winter'

SALEH, AL-OLABI. 'The traffic hazards risk reduction using smart transportation & mobility systems: a case study on Damascus city, Syria'





Room 1, 29 November 2022

9h00-10h40 (Earthquake)

Chairpersons Reem ALSEHNAWI, Mais GHASSOUN

Al Hariri, Hasan. 'Soil -Structure Interaction effect on Seismic Response Modification Coefficient of Dual System Using Substructure Approach'

Roukaya ,HASAN , Al-Helwani, Abdul-wahed. Evaluating the Dynamic Response of Fluid-Tank-Soil System, Experimental and Numerical Study for case: The Site of Sewage treatment Tanks in Jymraya'

Khadra, Hasan.' Studying of Dynamic Behavior of Tunnels Under the Effect of Surface Explosions using Nonlinear Numerical Modelling'.

Issa. 'Time History Analysis of Coupled Shear Walls Using Viscoelastic Dampers'

Discussion

11h00-12h40 (Earthquake)

Chairpersons Amjad AL HELWANI, Mohamad ISSA

Ghassoun, Alsehnawi. 'Analytical prediction of damping coefficient-vibration amplitude Relationship changes of reinforced concrete bridge piers'

Barmo, Hasan, Al- Kousa. 'The Use of Friction Bearing Isolate Developed by Shape Memory Alloys Wire Toward Earthquake Resistant Buildings and More Sustainable'

Hasan, Subh. 'Shear capacity of composite beams using numerous bolted shear connectors under static loads'.

Najjar. 'Seismic Performance Assessment and Optimization of Rubber Isolator Equipped with Steel Dampers'

Aldabbik, Pachla. 'The Influence of structural irregularities on response of the RC building subjected to mining tremors and earthquakes'

Discussion

13h10-14h50 (Earthquake)

Chairpersons Dalia NAJJAR, Ahmed Abdelraheem Farghaly

AL-ARAB , HASAN .' Comparison of adaptive and non-adaptive static analysis methods for estimating seismic demand'

Tabet-Derraz, Khelil, Boumechra, Hamdaoui, AL MAHMOUD.' Investigation on a new type of shear connector in the steel-concrete composite beam'

Al-Ahmar, Al Kousa.' Nonlinear Seismic Analysis of a Reinforced Concrete Frame Building using Fiber Distributed Plasticity Element Model and Fiber Hinge Model '

Badran, Hwaija, Issa. 'The effect of Lateral force distribution patterns on the behavior of RC buildings'

Koukash, Alatrash, Al
 Helwani. 'Optimized Design Ratio of Frame Part Participation in Shear Walled-Framed System of R
\C Buildings'





Room 2, 29 November 2022

9h00-10h40 (Management)

Chairpersons Shukri BABA, Madonna BESHARA

Al Oumar "Drone Photogrammetry as An effective Management Support System for rebuild process in Syria"

Jrad, Makia, Ahmad "Using Business Intelligence Technology to Improve Tracking of Construction Projects and Forecast Schedule Deviations"

Aldbs, Jrad, Saoud "Probabilistic Model for Risk Assessment of Construction Projects"

M. Beshara "Technological and economic sustainable performance indicators in developing Syrian construction projects"

Mohamed Shaban "Lessons Learned from Reconstruction Programs"

Discussion

11h00-12h40 (Management - Environement)

Chairpersons Mohamed SHABAN, Rana MAYA

Al Mezawy, Maya, Jrad "Methodology To Improve Efficiency Of Maintenance Management For Service Buildings"

ALHASSAN, SHIKH MOHAMAD, ABADI "Digitizing educational curricula in the field of construction management using BIM virtual simulation"

Lama Saoud "Optimization of Design Information Flow in Multidisciplinary Building Information Models (BIM) Environment"

AlJubaely, H. Soliman, Hamed, El-Zawahry "El Kebir Shemaly River Dam Site Selection Using AHP-OWA Approach"

Khouri, Al-Mufti "Development of a Water Quality Index for Orontes River"

Discussion

13h10-14h50 (Material)

Chairpersons Bassam KANJO, Priyanka Singh

Hatoum, Khatib, Barraj, Elkordi "Framework to Develop Mechanistic-Empirical Pavement Design towards Sustainable Road Construction Systems in Data-Scarce Areas: Lebanon Case Study"

Pinto, González-Fonteboa, Seara-Paz, Martínez, Martínez-Abella "Assessment of mortar properties in the presence of nutrients used in bacteria-based self-healing"

N Ibrahim , ElAnwar , Ghorbel "Effect of straw and flaxseeds additives on the physical, thermal and mechanical properties of stabilized raw earth bricks"

"Ramadan, El Khatib, Ghanem, ElKordi "Effect of incorporating plant-based natural fibers on the internal and external volume change of cement paste"

A.Ali, Laflouf, Alkhoury "Mechanical Properties of Concrete Produced with Recycled Concrete Aggregate (RCA)"





Auditorium 1 (Rida Said), 30 November 2022

9h00-10h40 (Materials)

Chairpersons Yassar ABDIN, James HAIDO

RAHAL,KACI "Influence of 3D printing process on the mechanical behavior of earth-based materials"

Alsaleh, Hammami, WARDEH "Investigating the impact of specific characteristics of local concrete mixture components on density and compressive strength using artificial intelligence"

Tuffaha "Improving the durability and sustainability of precast glass fiber reinforced concrete (GRC) products"

R. Kharouf "Role of Red Cross and Red Crescent in reducing risk of disaster and protecting victims (Invited lecture)"

Discussion

Auditorium 1 (Rida Said), 30 November 2022

11h00-12h00 Closing ceremony

Auditorium 2 (Theatre), 30 November 2022

9h00-10h40 (Reinforced concrete)

Chairpersons Abdul Qader MELHEM, Sindy SERA-PAZ

ALSHIEKH, WARDEH, HASAN, BAKEER "Analytical and numerical modelling of the shear behavior of reinforced concrete beams without stirrups"

RIZK, SUBH, WARDEH 'Requalification of Stress-Strain relationship for plain concrete under uniaxial monotonic and cyclic loading'

Kherbek, Hwaija "Study and Assessment of Seismic Resistant Dual Structures on the Syrian Coast for Resistance to Progressive Collapse"

Abdallaha, Ghassoun Al Mahmoud, Boissière, Khelil "Effect of strengthening patterns on performance of RC continuous beams using FRP reinforcement: serviceability state"





Auditorium 3 (Museum), 30 November 2022

9h00-10h40 (Reinforced concrete)

Chairpersons Abdalhamed KIKHEA, Nambiappan UMAMAHESWARI

SBHI, HWAIJA, NADDAF "Determination of shear stress on interface of reinforced concrete jacketed beam"

Oudeh, Diab, Danhash "Using Digital Image Correlation for bond – slip curve registration in pull-out test for steel – recycled aggregate concrete"

Fallouh, Al Atrach , Mamma "Concrete and Basalt Fibers Polymer (BFRP) Reinforcing Bars Bond Strength"

Wissam Aldeeb, Essam Melhem, "Experimental Study on the Impact of Recycled Aggregates on the Flexural Behavior of one-Way Reinforced Concrete Slab"

ZERROUKI, BEN AZZOUK, BEN HAMED "Durability of bio-based material subjected to wetting and drying aging cycles"

Discussion

Room 1, 30 November 2022

9h00-10h40 (Earthquake)

Chairpersons Mohamad DAOUD, Abdelwahab TAHSIN

Al Esrawy, Eilouch, Hasan "Improve the Behavior of Ancient Limestone Walls Using Mortar with Additives under Cyclic Loads"

Karmash, Daoud, Ahmad "Seismic-site conditions of the Syrian Seismological Network and Prediction Equations for PGA and PGV In Syria using earthquakes (M<5)"

Davino, Meglio, Formisano "Hemp FRCM as bio-based material for seismic consolidation of existing masonry buildings"

S. Darwish '3 dimension digital documentation For the holdings of the National Museum in Damascus'





Room 2, 30 November 2022

9h00-10h40 (Environment)

Chairpersons Ghassan DARRA HADDAD, Suzan H SULEIMAN

Bannoud, Sharholy, Kaadan "Organic Municipal solid Waste Composting In Aleppo Governorate"

S. Mohamad "The Effect of Choosing the Asphaltic Concrete as an Impervious Material for Embankment Dams on Sustainable Development"

I. Bella, N. Bella, A. Asroun "Cyclic Sulfate Attacks of Concrete Based on Limestone and Siliceous Mineral Admixture at High Curing Temperature"

Harb, Bilal "Evaluation of the Efficiency of Wetlands to Treat Water Pollution in the Litany River Study of the Biological Oxygen Demand index (BOD)"

