



9th International Conference on Seismology and Earthquake Engineering (SEE9)

May 7 - 9, 2024, Tehran, Islamic Republic of Iran

Final Program

Location

Milad Tower, Private Road (Passageway) of Milad Tower, Northern Angle of Hemmat Cross,
Shahid Sheikh Fazlollah Nouri Highway, Tehran, I. R. IRAN



International Institute of Earthquake Engineering and Seismology (IIEES)

Conference Organizer

International Institute of Earthquake Engineering and Seismology (IIEES)

Co-Organizer

Ministry of Science, Research and Technology
Tehran Municipality
Omran Iran Group
Esfahan Steel Company

Conference Sponsors

Islamic City Council of Tehran
State Construction Engineering Organization
Regional Education and Research Center on Earthquake Management and Resilience for West and Center Asia (RCEWA)
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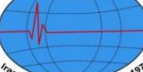
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Conference Topics

Code	Topics
	Seismology
EP	<i>Seismotectonics and Paleoseismology</i>
EN	<i>Seismic Networks</i>
ET	<i>Seismic Tomography</i>
EL	<i>Deep Learning and AI in Seismology</i>
ES	<i>Earthquake Source Modeling</i>
EG	<i>Engineering Seismology and Strong Ground Motion</i>
EH	<i>Seismic Hazard Modeling, Analysis and Tsunami</i>
EW	<i>Earthquake and Tsunami Prediction, Forecasting and Early Warning System</i>
	Geotechnical Earthquake Engineering
GE	<i>Earth Structures</i> <i>(Foundations, Retaining Walls, Embankment Dams, Underground Structures, Tunnels, etc.)</i>
GS	<i>Site Effect and Soil-Structure Interaction</i>
GT	<i>Soil Dynamic Characteristics Using Laboratory Testing and Field Measurements</i>
GH	<i>Geotechnical Hazards (Landslide, Liquefaction, etc.)</i>
GN	<i>Near Field Effects on Earth Structures</i>
GF	<i>Fault Effects on Earth Structures</i>
GB	<i>Bio and other Technologies Application in Seismic Rehabilitation</i>
	Structural Earthquake Engineering
SC	<i>Codes, Provisions, and Guidelines Development</i>
SS	<i>Smart Systems, Resilient Systems with limited damage</i>
SA	<i>Artificial Intelligence in Computational Methods, Software Development</i>
SI	<i>Industrialization, Earthquake Engineering and NaTech</i>
	Earthquake Risk Management
RM	<i>Multi-Hazard Risk and Resilience</i>
RI	<i>Integrated Disaster Risk Management</i>
RR	<i>Risk and Resilience Models and Systems</i>
RS	<i>Management of Social and Economic Impacts of Earthquakes</i>
RU	<i>Risk and Resilience of Vulnerable Urban Fabrics</i>
RP	<i>Recovery and Reconstruction Needs and Plans</i>

CONFERENCE VENUE ACCESS MAP

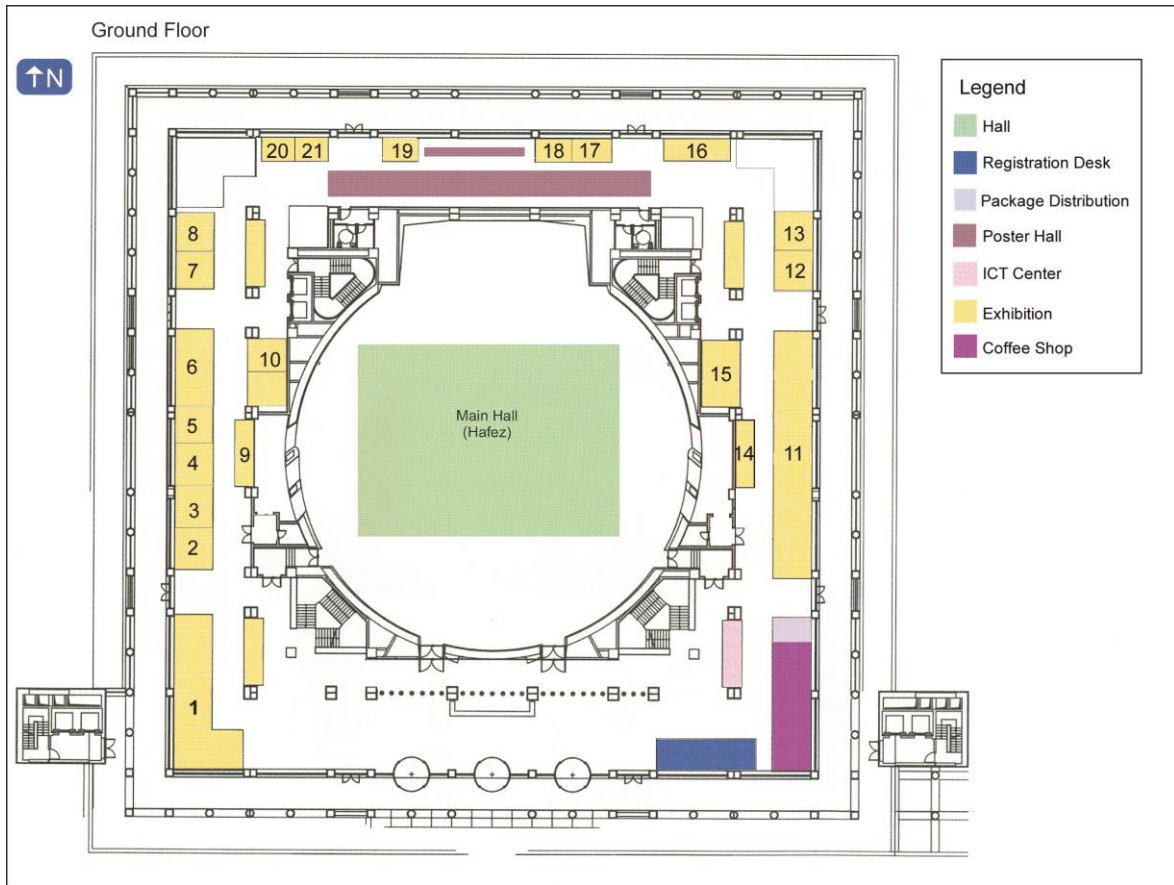


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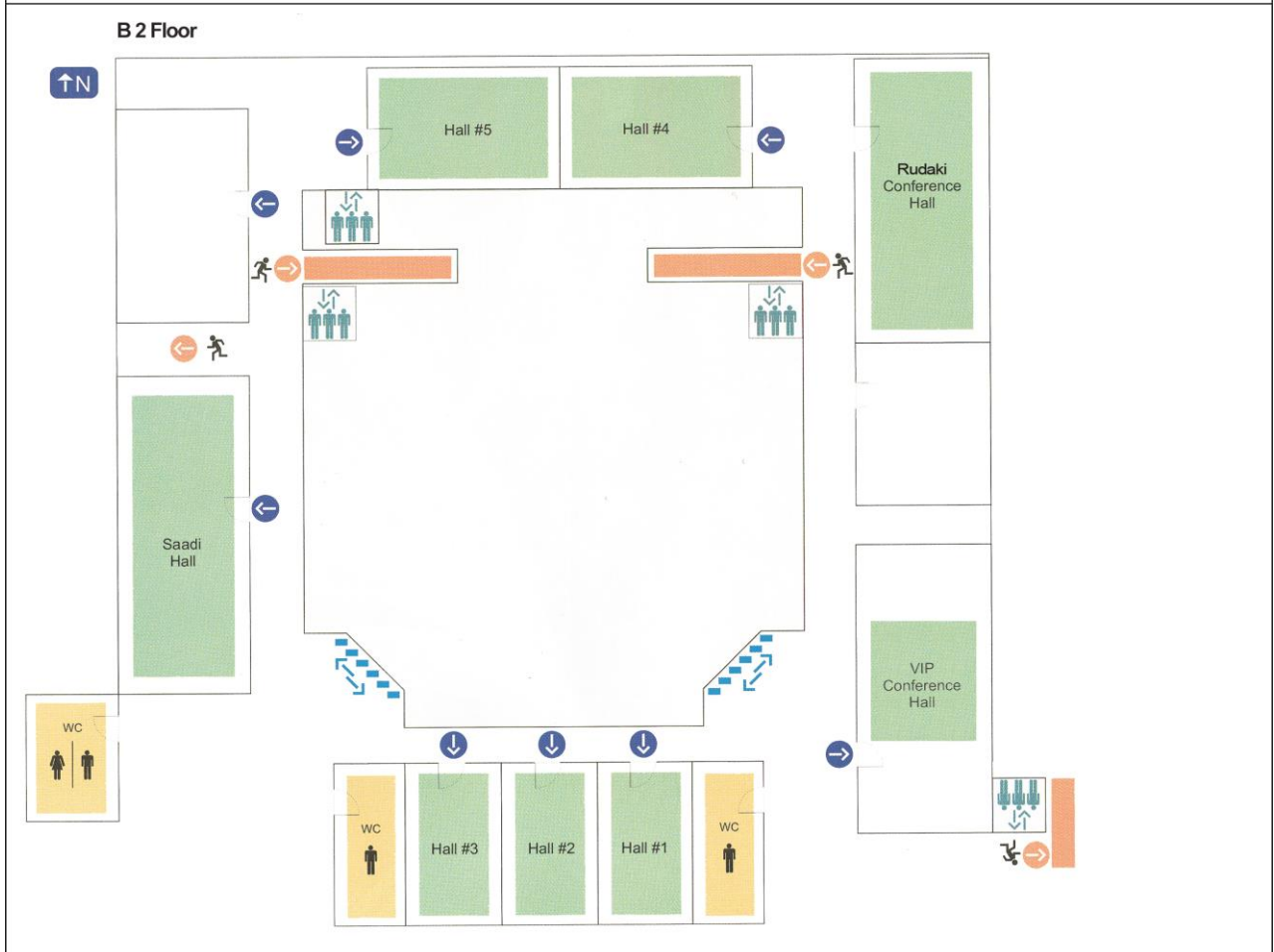
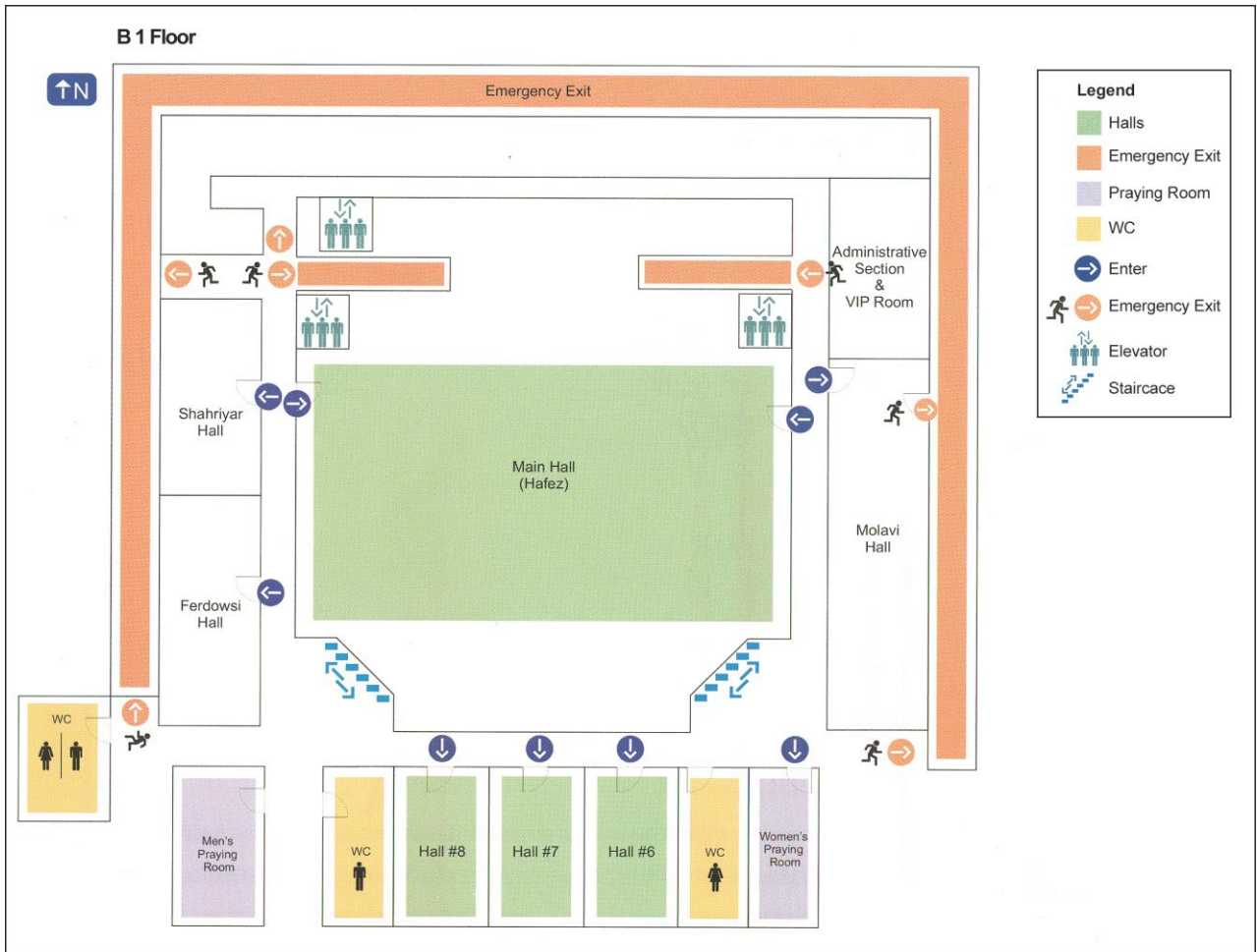
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| 4- ASA ATLAS | 14- Kohrang Industrial Group |
| 5- SAHAH SAZEH Co. | 15- Abniye Sazan Moghavem Ghorbani |
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| 7- Coupler-MehrAria | 17- Parnosoft |
| 8- VIRA BRACE | 18- Abadgaran Construction Chemicals |
| 9- Earth Seismo-monitoring tech (HAT) | 19- Group Four Century |
| 10- Behsaz Andishan Tehran | 20- Parsian Seismograph |
| | 21- Kowsar Insurance |



Note:

Main Program of Ninth International Conference on Seismology and Earthquake Engineering (SEE9)

First Day: Tuesday, 7 May 2024

08:00-08:30					
Registration					
08:30-10:20					
Opening Ceremony					
Main Hall (Hafez)	08:30 - 08:40	Quran Recitation and National Anthem			
	08:40 - 09:00	Chairman Speech			
	09:00 - 10:20	Invited Official Guests			
Tea Break (10:20-10:50)					
10:50-12:30					
Main Hall (Hafez)	Session Title: Keynote Lectures				
	Chairmen: M.H. Baziar, M.K. Jafari, A.A. Tasnimi, H. Shakib, M. Grigorian				
	Prof. T. Wang (China)	State of the practice of earthquake engineering in China: 70 years history of IEM			
	Dr. U. Özçamur (Türkiye)	A Comprehensive Evaluation of Seismic Isolation: From Theory to Application, Including Performance during Real Earthquakes			
	Prof. M. Gh.Ashtiany (IIEES)	System Approach: A need for Sustainable Development and Urban Resiliency			
	Prof. Keith Priestley (UK)	Seismic and Thermal Structure of the Arabian- Eurasian Zone			
Lunch Break (12:30-14:00)					
14:00-15:45					
Sa'adi Hall	VIP Hall	Hall 1	Hall 3	Hall 5	Rudaki Hall
Special Sessions					Workshop
Building Construction in Near Fault Zones (Part 1)	Structural Earthquake Engineering (SC)	Geotechnical Earthquake Engineering (GE)	Structural Earthquake Engineering (SC)	Seismology (EG,EH,EW)	Common Mistakes in Design, Supervision and Construction of Buildings
Tea Break (15:45-16:15)					
16:15-18:00					
Special Sessions					Special Sessions
Building Construction in Near Fault Zones (Part 2)	Structural Earthquake Engineering (SC)	Geotechnical Earthquake Engineering (GE)	Structural Earthquake Engineering (SC)	Seismology Zagros (EP, EG, EH & EW)	Development of 4th Edition of Iranian Seismic Design Code for Petroleum Facilities and Structures (038)

Main Program of Ninth International Conference on Seismology and Earthquake Engineering (SEE9)

Second Day: Wednesday, 8 May 2024

08:00-09:45					
Sa'adi Hall	VIP Hall	Hall 1	Hall 3	Hall 5	Rudaki Hall
Special Sessions					Special Sessions
Earthquakes & Megacities; with Focus on Tehran (Part 1)	Structural Earthquake Engineering (SC)	Geotechnical Earthquake Engineering (GS)	Earthquake Risk Management (RM,RU,RP)	Structural Earthquake Engineering (SC)	Different Aspects of Hospitals Seismic Resilience
Tea Break (09:45-10:15)					
10:15-12:00					
Special Sessions		Special Sessions			Special Sessions
Earthquakes & Megacities; with Focus on Tehran (Part 2)	Structural Earthquake Engineering (SI)	Special Topics in Seismic Resilience of Structures	Structural Earthquake Engineering (SC-SI)	Seismology (EW,EH)	The Role of Engineering Associations
Lunch Break (12:00-14:00)					
14:00-15:45					
Sa'adi Hall	VIP Hall	Hall 1	Hall 3	Hall 5	Rudaki Hall
Special Sessions	Special Sessions				Workshop
Earthquakes & Megacities; with Focus on Tehran (Part 3)	Earthquake Preparedness for Children with Disabilities	Geotechnical Earthquake Engineering (GS)	Structural Earthquake Engineering (SI)	Seismology Alborz (EP,ES,EG)	Structural Health Monitoring using Accelerometers
Tea Break (15:45-16:15)					
16:15-18:00					
Special Sessions					Elite Meeting
Earthquakes & Megacities; with Focus on Tehran (Part 4) New Technologies and School Organization	Structural Earthquake Engineering (SS)	Geotechnical Earthquake Engineering (GS)	Structural Earthquake Engineering (SS)	Seismology Makran (EP,ET)	Earthquake Research Priorities for Iran; Previous & Future Challenges

Main Program of Ninth International Conference on Seismology and Earthquake Engineering (SEE9)

Third Day: Thursday, 9 May 2024

08:00-09:45					
Sa'adi Hall	VIP Hall	Hall 1	Hall 3	Hall 5	Rudaki Hall
Special Sessions	Structural Earthquake Engineering (SS)	Geotechnical Earthquake Engineering (GH)	Structural Earthquake Engineering (SS)	Seismology (ET, EL, EG)	Structural Earthquake Engineering (SS7)
Earthquakes & Megacities; with Focus on Tehran (Part 5)					
Tea Break (09:45-10:15)					
10:15-12:00					
Keynote Lectures	Structural Earthquake Engineering (SA)	Special Sessions	Earthquake Risk Management (RP,RR)	Seismology East Iran (EP,ES)	Structural Earthquake Engineering (SA)
M. Vassiliou (Switzerland) F. Tehrani (USA) M. Grigorian (USA)		Earthquake and Tsunami Hazard and Risk Assessment for Western Makran			
Lunch Break (12:00-14:00)					
14:00-16:30					
Main Hall (Hafez)	Closing Ceremony				
	Chairmen: H. Shakib, A. Nasiri, O. Rezaifar, M. Bagheri, M.H. Baziar, A. S.Moghadam				
	14:00 - 14:30	Prof. H. Moghadam (Iran) A Critical Review of Seismic Loading Provisions			
	14:30 - 14:50	Dr. A. Nasiri			
	14:50 - 15:10	Dr. O. Rezaifar			
	15:10 - 15:30	Omran Iran Group (M. Bagheri)			
	15:30 - 16:30	Chairman and Co-Chairman Speech			

Details of Oral Presentation's Sessions

Tuesday, 7 May 2024, 14:00-15:45

Hall	Authors	Subject
Sa'adi Special Session	Special Session on "Earthquakes & Megacities; with Focus on Tehran"	
	Chairmen: M.H. Baziar, Kh. Hessami, A. Beitollahi, M. Talebian, M. Zare, A. Ghalandarzadeh, P. Dashtian	
	Building construction in near fault zones (Part 1)	
	<ul style="list-style-type: none"> - Background of the subject - Type of damages in structures in fault crossing - Challenging issues - Retrofitting techniques - Discussion and conclusions 	
	A. Fakher, A. Ghalandarzadeh, M. Morsalnejad [03360259]	Invited lecture: A review on the current practice of dealing with surface fault rupture in urban construction in Iran
VIP Hall Structural Earthquake Engineering	Session Subjects: Codes, Provisions, and Guidelines Development	
	Chairmen: A. Mohebkhah, M. Mahsuli, F. Arbabi	
	S.S. Hosseini Varzandeh, M. Mahsuli [00180009]	Invited lecture: Optimal calibration of building seismic design base shear through minimization of lifecycle cost
	P. Shahabi, A. Mohebkhah [02900212]	Seismic behavior of masonry-infilled RC moment frames recommended by IS-2800
	A. Farshari, A. S.Moghadam [02500201]	Effects of retrofitted components by FRP on performance of the structure
	A.A. Shaikhzadeh, A. Karamoddin [03380256]"	A comparative study on seismic behavior of two adaptive sliding isolators
	F. MousaviRad, A. Kalantari, M. Bastami, Sh. NadrMohammady [02580674]	Development the rehabilitation program of water pipeline networks based on reliability analysis
	F. Shahbazi, M. Hosseini, P. Zarfam [03340255]"	Seismic performance assessment of steel buildings with vertical irregularities by linear and nonlinear analyses
1 Geotechnical Earthquake Engineering	Session Subjects: Earth Structures (Foundations, Retaining Walls, Embankment Dams, Tunnels, etc.)	
	Chairmen: H. Alielahi, M. Jiryaei Sharahi, F. Askari	
	S. Jozeranjbar, H. Alielahi [00450017]	Invited lecture: Evaluation of seismic vulnerability of concrete face rockfill dams (A case study cogswell dam)
	F. MaldarBadeli, M.H. Baziar, M. Delavar [02260219]	Investigating the effect of predominant frequency and amplitude of an earthquake on response of soil with shallow tunnel using OPENSEESN
	A.R. Borujerdi [01600235]	A performance-based approach to design of a retaining wall structures supporting soil slope
	M.M. Ahmadi, S. Hadei, A. Hokmabadi, S.A. Borzeshi [00230065]	Dynamic response of 3x3 pile groups within the soil-pile-structure system using non-linear three-dimensional numerical analysis
	R. Hoseinpour, M. Keramati, C. de Hollanda C. Tsuha [03260236]	Helical pile as a new method to increase resistance against earthquakes and cyclic loads
	M. Jiryaei Sharahi, M. Mobini [05900590]	Seismic active pressure during Kahramanmaraş earthquake in Turkiye using a time domain pseudo-dynamic method
	M. Davoodi, R. Afzalsoltani, A. Pourdeilami [05870637]	Investigating the influence of earth dam shell material stiffness on dynamic responses using perfectly matched layer (PML)

Details of Oral Presentation's Sessions
Tuesday, 7 May 2024, 14:00-15:45

Hall	Authors	Subject
3 Structural Earthquake Engineering	Session Subjects: Codes, Provisions, and Guidelines Development	
	Chairmen: M. Ziyaeifar, N. Attari, M. Rashvand	
	A. Heidary, S.M. Motovali Emami [00820046]	Invited lecture: Development of seismic fragility curves for reinforced concrete school buildings in Isfahan building
	M. Karimi Taheri, A. Aziminejad, M.R. Mansoori [00690042]	The relationship between stiffness, strength and yield displacement of self-centering steel braced frames
	F. Azarbondyad [06330644]	Investigating the performance of the negative stiffness damper under wind and earthquake loads by the energies on the building and developing the fragility curves
	M. Jahangiri, M.A. Hadianfard, Sh. Shojaei [01030073]	Amended tentative fundamental period of residential buildings considering the interaction of non-structural elements using ambient vibrations
	Z. Ghafari, M. Mojarad, M. Daei [02270164]	Overstrength factor of intermediate link subjected to high axial load in EBFs
	A.Parvari, F. Shahrokhi [02000395]	Investigation of the effect of diagonal stiffener on the shear capacity of panel zone with axial force presence
	S. Saharkhizan, M. Ziyaeifar [00260012]	Seismic design of structural system with multi-phase behavior
5 Seismology	Session Subjects: Seismic Hazard Modeling, Analysis and Tsunami, Engineering Seismology and Strong Ground Motion, Earthquake and Tsunami Prediction, Forecasting and Early Warning System	
	Chairmen: M. Mahood, A. Ansari	
	F. Jalayer, S. Soltani, H. Ebrahimian [05680642]	Invited lecture: European tsunami risk service (ETRiS): providing data, data products, software and services for tsunami risk assessment
	M. Mahood, P. Shahmahmoodi [04470624]	Application of tpmx method in earthquake early warning for west of Iran
	Sh. Nazerian, S. Samyari, A. Hashemi [04230355]"	Earthquake prediction using PGA of previous earthquakes with the help of deep learning
	R. Barati, Gh. Boshrouei Shargh [00510626]	Seismic intensity measure selection considering Record-to-Record and Angle-to-Angle uncertainties
	M.R. Soghrat, H. Zafarani [05010433]	A new ground motion model for Iran, enriched by worldwide near-field data from shallow crustal events
M.R. Salimi, A. Zamani, A. Yazdani [02140224]"	Risk-targeted seismic hazard analysis considering near-fault effects for Tehran	
Rudaki Hall Struct. EQ Eng.	Workshop Title: "Common Mistakes In Design, Supervision and Construction of Buildings"	
	Chairmen: M.A. Najafgholipour, M. Khajehpour	
	<ul style="list-style-type: none"> - A review on seismic design provisions for RC moment resisting frames in different editions of the iranian national building code and the importance of the seismic rehabilitation of the existing RC moment resisting frames constructed based on the previous editions - Evaluation of structural and non-structural damages in the past earthquakes in Iran 	

Details of Oral Presentation's Sessions

Tuesday, 7 May 2024, 16:15-18:00

Hall	Authors	Subject
Sa'adi Special Session	Special Sessionon "Earthquakes & Megacities; with Focus on Tehran"	
	Chairmen: M.H. Baziar, Kh. Hessami, A. Beitollahi, M. Talebian, M. Zare, A. Ghalandarzadeh	
	Building construction in near fault zones (Part 2)	
	<ul style="list-style-type: none"> - Background of the subject - Type of damages in structures in fault crossing - Challenging issues - Retrofitting techniques - Discussion and conclusions 	
VIP Hall Structural Earthquake Engineering	Session Subjects: Codes, Provisions, and Guidelines Development	
	Chairmen: Chairmen: M. Adibi, A. Aziminejad, F. Arbabi	
	<u>M. Adibi</u> , Gh. Fathi Hamzanlo [02170159]	Invited lecture: Finite element modeling of slab-column connection behavior reinforced with CFRP sheet
	Kh. Alizadeh Kashani, A. Aziminejad [00350044]	Effect of different idealization methods of capacity curve on estimating nonlinear dynamic analysis response of building
	M. Mojarad, M. Daei [02270163]	Probability of failure in force-controlled components in EBFs with shear link
	A. Moazezi Mehretehran, K. Rezaei [00130008]	Buckling of axially compressed steel cylindrical shells with cutouts
	H. Sabouri, M. Yekrangnia, F. Dehghani [06400651]	Experimental investigation of the effect of environmental conditions on the pullout resistance of rebar in shotcrete layer with salt water additive
	H. Tavakoli, A. S.Moghadam [04660391]	Evaluation of low-rise steel moment-resisting frame under far field and near field earthquakes
	N. Shahbazi, I. Ashayeri [01280095]"	Comparative study of the design spectrum of the Iranian seismic design code for petroleum facilities with the Iranian code (No. 2800) design spectrum
1 Geotechnical Earthquake Engineering	Session Subjects: Earth Structures (Foundations, Retaining Walls, Embankment Dams, Tunnels, etc.)	
	Chairmen: M. Amel Sakhi, M. Davoodi	
	<u>A.H. Shafiee</u> , M. Oulapour, A.M. Khashn [02850297]	Invited lecture: Seismic bearing capacity of strip footings placed on soil with rigid basement at a limited depth
	A.A. Ehterami, B. Ebrahimian, A. Noorzad [02160327]	Numerical evaluation of deformation behavior of hunchbacked gravity quay walls subjected to dynamic loading
	A.R. Kermani, A. Hamidi, F. Asemi [03850373]	Mitigation of transient vibrations induced by dynamic compaction: a numerical study on the efficiency of open trench and borehole barriers
	S.M. Alavi, A.A. Heshmati R., H.R. Razeghi [04550379]	Investigation on differential settlements of a tall geosynthetic reinforced soil wall during seismic loads
	H. Khademi, M. Mokhberi, Gh.R Atefatdoost [03270397]	Effect of a damping-absorbing material on seismic responses of the longitudinal buried tunnel using theoretical analysis and finite element modeling
	S.M Mousavi O., Z. Mahdavi, M. Jiryaei [05670554]	Impact of rough and smooth footing on seismic bearing capacity using the rigid plastic finite element method (RPFEM)
	M. Davoodi, A. Ghalyanchi Langroudi [06270638]	Evaluating the incoherence and wave-passage effects of seismic excitation on dynamic response of two embankment dams
	S.M. Moosavi, P. Mobayen [05710535]	Investigation of earthquake effects on Tehran megacity: approaches from the perspective of site effects

Details of Oral Presentation's Sessions
Tuesday, 7 May 2024, 16:15-18:00

Hall	Authors	Subject
3 Structural Earthquake Engineering	Session Subjects: Codes, Provisions, and Guidelines Development	
	Chairmen: N. Siahpolo, S.M. Motovali Emami, S.A. Razavi, A. Soroushian	
	N. Siahpolo, E. Khoshooei [03950341]	Invited lecture: Comparison of the seismic behavior of tall buildings with concentric and buckling restrained bracing systems against near-fault earthquakes
	M. Hajati, S.M. Motovali Emami [03710303]	The effect of soil-structure interaction on the probabilistic evaluation of the seismic performance of steel bending frames with and without intermediate frames
	M. Barkhori Mehni, A.R. Garakani Nezhad, M. Maghsoudi [04870517]"	Reliability analysis of structures with an importance sampling method
	M. Ebrahimi, A. Eslami, R. Morshed [02630197]	Improving the seismic behavior of palm fiber-reinforced adobe walls with fiber meshes and reeds
	M. Moosavi Asl, M. Ziyaeifar [02510268]	Investigating the vertical component effects of the earthquake on the seismic responses of masonry arch bridges
	E. Alavi, A. Ahleghagh, M.H. Shamekhi [03600292]	Seismic behavior and characteristics of pipe rack structures with vertically combined framing system
	S.A. Razavi, M. Hashemi [07230685]	Seismic assessment of gusset plate connection to box columns in CBF systems
5 Seismology (Zagros)	Session Title: Seismotectonics and Paleoseismology, Engineering Seismology and Strong Ground Motion, Earthquake and Tsunami Prediction, Forecasting and Early Warning System	
	Chairmen: E. Shabanian, M. Mostafazadeh	
	M. Mohammadi, Z. Masoumi, E. Shabanian, F. Esmaeili [05360599]	Invited lecture: Improving the accuracy of morphometric measurements using digital elevation models obtained from photogrammetry (Case study: Soltanieh fault)
	S. Musavian, M. Mostafazadeh [06010618]	Stress inversion in north part of the Zagros
	N. Eftekhari, M. Mehrpak, S. Motaghd, L. Emadali [03350287]	Estimating ground displacement during the Sisakht earthquake utilizing radar interferometric techniques
	F. Gomar, J. Ruh, F. Sobouti, M. Najafi [02760519]	Numerical modeling of basement inheritance and salt layer effects on the structural evolution of the Fars arc
	F. Sheikhi Mehrbadi, H. Saffari [02230579]	Statistical ranking of peak ground acceleration attenuation relationships in the seismic state of Zagros
B. Malekiasayesh, S. Hainzl, M. Tatar, G. Z'Oller, S. Soltanimoghadam [04900437]	How could impoundment of a reservoir change seismicity around the dam?	
Rudaki Hall Struct. EQ Eng.	Special Sessions on "Development of 4th edition of Iranian seismic design code for petroleum facilities and structures (038)"	
	Chairmen: P. Sangin, S.R.A. Sajadi, A. Moradi, O. Bahar, A. S.Moghadam, H. Zafarani, A. Maier - Welcome note and introduction - Introducing different chapters of the code - The main advances compare to the 3rd edition - Plans for future	

Details of Oral Presentation's Sessions
Wednesday, 8 May 2024, 08:00-09:45

Hall	Authors	Subject
Sa'adi Special Session	Special Session on "Earthquakes & Megacities; with Focus on Tehran"	
	Chairmen: H. Zafarani, M.R. Ghaemmaghamian, E. Haghshenas, M. Tatar, Sh. Solaymani Azad, M. Allami	
	Hazard and risk assessment of earthquake and associated geohazards in megacities; review of the methods and challenges with special focus on Tehran (Part 1)	
	<ul style="list-style-type: none"> - General introduction - Seismicity and Seismic hazard analysis (challenges & new trends) - 3D alluvial velocity model and surface ground motion simulation - Threat and crisis caused by Earthquake induced geohazard - Risk-based design of peak ground acceleration and response spectra - Discussion and conclusion 	
VIP Hall Structural Earthquake Engineering	Session Subjects: Codes, Provisions, and Guidelines Development	
	Chairmen: A.A. Tasnimi, F. Behnamfar	
	<u>A.A. Tasnimi</u>	Invited lecture: Development of Steel Dampers used in RC Structures (Selfcentering Shear Wall & Coupling Beams)
	Z. Jannesari Ladani, A.A. Tasnimi [03570288]	Evaluation of seismic performance of a modified widened flange beam-column connection: virtual hybrid simulation framework
	M. Shahrouzi, J. Gholizadeh [01350565]	Tuning viscous dampers for seismic upgrade of buildings by escaping bird search
	A.M. Gohari, F. Behnamfar [01400092]	Studying seismic performance of steel structures equipped with the pure bending steel yielding damper for residual displacements
	S.B. Adibzadeh, F. Hamedei [04680603]	Comparison of hysteresis curves and damage indices in welded unreinforced flange-welded connections with variable flange width to box column
	M. Mam Ahmadi, J. Mokari Rahmdel, E. Shafei [03900589]	Investigating the effect of spacing on the ultimate strength of group-headed rebars using the CCD method in LS-DYNA software
	A.R. Karoubi, A.H. Khalvati [00990190]	Evaluating the seismic performance of RC moment frames with isolated stair case based on the details presented in Iranian standard No. 2800
A. Saadatkhah, M.R. Chenaghlu, M. Pursha [05480503]"	A simple method to determine the uniform equivalent inherent damping ratio of mixed structures with non-classical damping	
1 Geotechnical Earthquake Engineering	Session Subjects: Site Effects and Soil-Structure Interaction, Near Field Effects on Earth Structures	
	Chairmen: A. Ghanbari, H. Jahankhah	
	M. Shamsi, <u>A. Ghanbari</u> [01160100]	Invited lecture: The role of isolators in the seismic response of monorail bridges considering SSI
	M.M. Ahmadi, S. Hadei, Sajjad A. Borzeshi, A. Hokmabadi [00220040]	The effect of loading frequency on soil-pile interaction using nonlinear three-dimensional analyses
	M.Mahdi Ahmadi, S. Hadei, A. Rahmani [00880083]	Investigating the effect of train speed and foundation presence on the train-induced vibrations
	H. Jahankhah, M. Taheri [06280640]	Comparison of a two-stage indirect analysis based on the dynamic stiffness matrix of the free field with direct finite element analysis to calculate the impedance function and foundation
	M.A. Sheykhi, M. Kamalian, S. M. Moosavi [04960645]	Investigating the seismic behavior of topographic effects in previous researches: with special attention to the west area of Sarpol-e Zahab city
M.A. Masoumi, S.M.S. Sahraeian, M.A. Najafgholipour, A. Shafiee [00740028]"	Seismic performance assessment of monopile foundation of offshore wind turbine against near-field and far-field earthquakes	

Details of Oral Presentation's Sessions

Wednesday, 8 May 2024, 08:00-09:45

Hall	Authors	Subject
3 Earthquake Risk Management	Session Title: Multi-Hazard Risk and Resilience , Risk and Resilience of Vulnerable Urban Fabrics, Recovery and Reconstruction Needs and Plans	
	Chairmen: Y. O. Izadkhah, F. Aslani, A.R. Fallahi	
	Y. O.Izadkhah, A. Aliyousefi [03370253]	Museum preventive conservation against earthquakes through digital documentation
	F. Aslani, K. Amini Hosseini [01610111]	Evaluating neighborhood social resilience against earthquakes (case study: Jalaliyeh neighborhood in district 6 of Tehran City)
	V. Shirvani Harandi, K. Amini Hosseini, B. Mansuri [01790146]	Evaluation of rate of damages, fatalities, injured and road blockage due occurrence of probable earthquake in district 4 of Qom city
	A. Fallahi, Y. Ahesteh, F. Aslani [01610434]	Analysis and solutions for reducing physical vulnerability against earthquakes (Case study: Bargh-Alestom neighborhood in district 2, Tehran)
	F. Hoseini, H. Motamed [00960666]"	A review of identifying successful criteria for Post-Earthquake reconstruction programs and assessing their implementation in the Bam earthquake(2003)
	A. Fallahi, Z. Norouzi Delaviz, F. Aslani [01610545]	Reducing the physical vulnerability of evin neighborhood, Tehran, against possible earthquake
5 Structural Earthquake Engineering	Session Subjects: Codes, Provisions, and Guidelines Development	
	Chairmen: M.Gh. Vetr, F. Arbabi, M.R. Tabeshpour	
	M.R. Tabeshpour [04630390]	Invited lecture: 45 questions from standard No. 2800 , appendix No. 6
	M.R. Tabeshpour, A. Nourifard [04630421]	Revising and rewriting appendix No. 6 standard No. 2800
	P. Omidian, N. Khaji, A.A. Aghakouchak [05200454]	A data-driven seismic risk framework for resilience modeling and life-cycle cost analysis in sustainable transportation network mitigation planning
	S.M. Mousavi, P. Kazembeigi, A. Mirdehghan, M. Ansari [01960135]	Comparative study of the method presented in code 714 and ACI 549 guidelines for seismic design of masonry infill walls
	M.Gh. Vetr, H.R. Ebrahimizadeh Ghahroud, H. Asgaran, S. Kaboorani [04270430]	Investigating the seismic behavior of the concrete frame with and without the shear wall, retrofitted with CFRP to reduce the irregularity of the soft floor
	A. Saeedi, A. Kalantari [00140477]	Reliability-based assessment of steel special concentrically braced frames designed in Iran under seismic load
H. Ghaedrahmati, M. Vajdian [02190393]	Numerical investigation of seismic behavior of bracing steel frames with nested steel shell damper	
Rudaki Hall Struct. EQ Eng.	Special Session on "Different Aspects of Hospitals Seismic Resilience"	
	Chairmen: M.T. Ahmadi, A. Kalantari, M. Gafory Ashtiany, H. Kazem, A. Maier	
	A.A. Aghakouchak	Analysis and design of hospitals structures, from common methods to performance based approach
	A. Kalantari	Resilience enhancement of hospitals in natural disasters, an international experience in Iran
	M. Gafory Ashtiany	Development of multi hazard design guideline for hospitals
M. Mirhashemi	Systematic approach for the nonstructural seismic assessment of hospitals	

Details of Oral Presentation's Sessions
Wednesday, 8 May 2024, 10:15-12:00

Hall	Authors	Subject
Sa'adi Special Session	Special Session on "Earthquakes & Megacities; with Focus on Tehran"	
	Chairmen: H. Zafarani, M.R. Ghaemmaghmanian, E. Haghshenas, A. Ghalandarzadeh, E. Salimi, M. Davoodi, M. Karbala	
	Hazard and risk assessment of earthquake and associated geohazards in megacities; review of the methods and challenges with special focus on Tehran (Part 2)	
	<ul style="list-style-type: none"> - General introduction - Seismicity and Seismic hazard analysis (challenges & new trends) - 3D alluvial velocity model and surface ground motion simulation - Threat and crisis caused by Earthquake induced geohazard - Risk-based design of peak ground acceleration and response spectra - Discussion and conclusion 	
VIP Hall Structural Earthquake Engineering	Session Subjects: Industrialization, Earthquake Engineering and NaTech	
	Chairmen: M.R. Shiravand, R. Nodeh Farahani, M. Mohammadi	
	<u>M.R. Shiravand</u>	Invited lecture: Seismic reliability of post-tensioned re-centering bridge piers due to post-tensioning relaxation
	Y. Chen, J. Li, T. Wang, Zhongyi Zhou (China) [05610522]	Seismic reliability assessment for a 750kv hub substation with 3/2 circuit breaker configuration
	M.S. Barkhordari, M. Tehranizadeh [02220153]	Shear-flexural interaction effect on the collapse risk of high-rise reinforced concrete frame-wall structures
	R. Nodeh Farahani, A. Mirza Gol Tabar, A. Eslami, M. Ghodsi [03290248]	Investigating the seismic response and isolation of the structure under the effect of the dynamic load of urban train movement
	A. Soleymani, M.A. Najafgholipour, A. Johari [01040076]	In-plane shear retrofitting of traditional masonry walls by near surface mounted method
	B. Esmailzadeh Hakimi, B. Mansouri, M. Ghafory Ashtiany [06640664]	Power network seismic reliability analysis by simplified parallel and Series systems concept
	R. Marrazzo, C. Mazzini (Italy) [03670299]"	NaTech risk assessment for the underground storage of natural gas
	M.R. Shiravand, G. Shid, Sh. Mahboubi [00270013]	Seismic response of isolated bridge considering soil-abutment interaction
1 Struct. EQ Eng.	Special Session on "Special Topics in Seismic Resilience of Structures"	
	Chairmen: M.T. Ahmadi, M. Gafory Ashtiany, H. Kazem, A. Aziminejad	
	M.T. Ahmadi	Concrete dams in earthquake
	M. Ghaemian	Seismic safety of dams
	H. Kazem	Seismic retrofitting experience in oil facilities of Iran

Details of Oral Presentation's Sessions
Wednesday, 8 May 2024, 10:15-12:00

Hall	Authors	Subject
3 Structural Earthquake Engineering	Session Subjects: Codes, Provisions, and Guidelines Development, Industrialization, Earthquake Engineering and NaTech	
	Chairmen: M. Ziyaeifar, J. Mokari Rahmdel, M. Pursha	
	Z. Bohlouli, <u>M. Pursha</u> [05500501]	Invited lecture: Spectral shape effect of ground motion records on strength reduction factor and inelastic displacement ratio of deteriorating SDOF systems
	A. Saeedi, A. Kalantari [00140471]	Reliability-based assessment of steel moment resisting frame structures designed in Iran under earthquake load combinations
	M.R. Shokrzadeh, F. Nateghi Alahi, M.R. Mansoori, P. Javadi [06870672]	Cold rolling Vs rotating friction welding techniques in mechanical splices: Analytical investigations
	S.A Ghetmiri, M.A. Hadianfard, H. Rahnema, Sh. Shojaei [01860543]	Field evaluation of the effect of the type of materials used in the building structure on the amount of damping ratio
	A. Soroushian [06290641]	Testing two new procedures to improve nonlinear response history analysis according to the seismic code of New Zealand NZS 1170.5:2004
	S.S. Rahmani, A. Zahedi [05180453]	Seismic evaluation of metal structures on mega braces with parallel curved elements under far and near fault earthquakes
	P. Valizadeh Mojezi, M. Biglari [01230119]	Seismic vulnerability assessment of Akhund Abu historical mansion based on damage index
5 Seismology	Session Subjects: Earthquake and Tsunami Prediction, Forecasting and Early Warning System, Seismic Hazard Modeling, Analysis and Tsunami	
	Chairmen: M. Zare, S.R. Mehrnia	
	<u>M. Zare</u> [06100625]	Invited lecture: The inefficiency of seismic hazard zoning maps in predicting ground motion of major earthquake
	S.R. Mehrnia [03500285]	Geometric entanglement and earthquake prediction in Tehran
	Ali Masihi, T. Fischer [04940422]	Vp/Vs variations during pre-eruptions seismic swarms as a precursory signal for volcanic eruption
	R. Sadat Shiryazdi, M. Mahood, Y. Radan [05130458]	Optimizing the pattern information (PI) method in predicting earthquakes in the Zagros tectonic earthquake state
	E. Kishani Farahani, A. Mahmoudian, A. Anvari [03630537]	Payload selection for space-based earthquake precursors' observation by a native Iranian satellite
	H. Amini, M. Zare, M. Fattahi, A. Ansari [05410620]	Improving the earthquake parameters applying the macroseismic dataset
	A. FathiAzar, A. Latif Helaly, B. M. Nural Absar, S.A. Helaly [03820364]"	Risk targeted seismic hazard values for Dhaka city, Bangladesh
S. Ommi [04800405]"	Seismicity pattern changes prior to the rigan earthquakes (2010) based on (RTL) method	
Rudaki Hall Struct. EQ Eng.	Special Session on "The Role of Engineering Associations"	
	Chairmen: H. Shakib, A.A. Tasnimi, H. Manifar	
	<ul style="list-style-type: none"> - Capacities of engineering association in seismic mitigation - New and existing Building challenges for engineering association - Extension of engineering association experiences to building in megacities 	

Details of Oral Presentation's Sessions
Wednesday, 8 May 2024, 14:00-15:45

Hall	Authors	Subject
Sa'adi Special Session	Special Session on "Earthquakes & Megacities; with Focus on Tehran"	
	Chairmen: H. Zafarani, M.R. Ghaemmaghamian, E. Haghshenas, E. Salimi, H. Shahsavan	
	Hazard and risk assessment of earthquake and associated geohazards in megacities; review of the methods and challenges with special focus on Tehran (Part 3)	
	<ul style="list-style-type: none"> - General introduction - Seismicity and Seismic hazard analysis (challenges & new trends) - 3D alluvial velocity model and surface ground motion simulation - Threat and crisis caused by Earthquake induced geohazard - Risk-based design of peak ground acceleration and response spectra - Discussion and conclusion 	
VIP Hall Special Session	Special Session on "Earthquake preparedness for children with disabilities"	
	Chairmen: RCECW & IIEES: K. Amini Hosseini, F. Aslani, M. Eskandari UNESCO: M. Gholami, M. Mehrdadi, S. Rafeerasm UNICEF: M. Soltanzadeh, Z. Jalili	
	<ul style="list-style-type: none"> - A review on challenges of children with disabilities during and after earthquakes - Earthquake risk reduction and disaster management measures for children with disabilities - National and international collaborations for promoting earthquake risk preparedness for children with disabilities 	
1 Geotechnical Earthquake Engineering	Session Subjects: Geotechnical Hazards, Site Effects and Soil-Structure Interaction, Soil Dynamic Characteristics Using Laboratory Testing and Field Measurements, Fault Effects on Earth Structures	
	Chairmen: M. Haeri, M.K. Jafari, J. Jalili	
	M. Rajabigol, S.M. Haeri, A. Dehghanpour, M. Ghazvinian [00290015]	Invited lecture: Assessment of dense and loose stone columns against liquefaction-induced lateral spreading effects on pile groups
	R. Dabiri, A. Lotfi, M. Amel Sakhi [00850052]	Evaluation of liquefaction potential of soil layers with using shear wave velocity based on neural network theory
	J. Jalili, S.M. Moosavi, S. Safari, M.K. Jafari [05960600]	Cyclic softening of a low-plastic fine-grained soil
	E. Pegah [05470496]	Small-strain anisotropies and their intercorrelations in sands
	M. Khomehghir [05750563]"	Fault rupture hazard analysis for gas pipeline Tabriz_Ankara
	A. Razavi Davoodi, M. Fadaei, N. Ahmadi [05930613]"	Physical modeling g1 to improve the performance of surface foundations against reverse faulting using geocell

Details of Oral Presentation's Sessions
Wednesday, 8 May 2024, 14:00-15:45

Hall	Authors	Subject
3 Structural Earthquake Engineering	Session Subjects: Industrialization, Earthquake Engineering and NaTech	
	Chairmen: H. Moghadam, M. Mohammadi, A. Rabar Basir	
	B. Sayyafzadeh, M. Sharifi, A. S. Moghadam, S. Koohestani [02620195]	Invited lecture: Evaluation of tanks age-based deterioration effect on seismic risk of natech events, a case study using OPENSRAVE
	M. Arghavani, M. Ghafory-Ashtiany [06030663]	Prioritization of seismic rehabilitation of macro-components of power grids using the results of physical performance analysis
	R. Baghbanijam, M. Pursha [05690533]	Investigating the capability of imk deterioration model in determining the seismic responses of plan-asymmetric reinforced concrete buildings-A case study: spear building
	A.R. Khorramabadi, A.M. Allami Mehmandosti [06430655]	Studying the design of wind turbine tower against wind and earthquake loads by considering the effect of soil-structure interaction
	K. Mousavi Dehmourdi [02790473]"	Analytical study of damage propagation and expansion of nonlinear behavior parameters In mid-range steel frames with zipper braces
	H. Moghadam, F. Afzalnia [04350400]"	Multi-performance optimization of friction dampers used to improve seismic behavior of steel moment resisting frames
	H. Moghadam, F. Afzalnia [04350350]"	The effectiveness of the Adaptive optimization method for the optimal distribution of friction dampers in steel moment resisting frames
5 Seismology (Alborz)	Session Subjects: Seismotectonics and Paleoseismology, Earthquake Source Modeling, Engineering Seismology and Strong Ground Motion	
	Chairmen: M. Mahmoodabadi, F. Sobouti	
	S. SoltaniMoghadam, M. Tatar, M. Mahmoodabadi [06130627]	Invited lecture: High-resolution seismicity in south-central Alborz using integrated seismic data
	M. Raeesi (Norway) [00580024]	Revisiting the 20 June 1990 (Mw 7.4) Rudbar earthquake
	S. Khodaparast, S. Madanipour, Kh. Hessami, R. Nozaem, A. Babaahmadi [01390208]	Geomorphological and structural evidence of the youngest change in the Kushk-e-Nosrat fault mechanism on the northern Iranian plateau margin
	M.J. Banimahdi Dehkordi, A. Ghods, Z. Mousavi, E. Shabanian, M. Abbasi [05140444]	The active tectonics of the Alborz
	Z. Aghabeigi, M. Fattahi, H. Amini, M. Torabi, M. Hatami [05640525]	Revisiting of the late quaternary slip-rate of the Khij fault in south-east of Alborz mountains (NE Iran) obtained from IRSL dating of alluvial sediments
	Sh. Pourbeyranvand, Gh. Javan Doloei [05860615]	Completing the stress database in Iran and neighboring regions using focal mechanisms of earthquakes
	R. Alikhanzadeh, H. Zafarani [01660123]	Physics-based seismic hazard analysis: a case study of North Tehran fault
Rudaki Hall Struct. EQ Eng.	Workshop Title: Structural Health Monitoring using Accelerometers (Case Study: CBC Building in Khorramshahr)	
	Chairmen: M. Mahmoudi Sahebi, A. Paknejad, M. Rashidian, M. Shirazian, M. Akrami	
	<ul style="list-style-type: none"> - Structural health monitoring methods - Case Study: CBC Building in Khorramshahr 	

Details of Oral Presentation's Sessions
Wednesday, 8 May 2024, 16:15-18:00

Hall	Authors	Subject
Sa'adi Special Session	Special Session on "Earthquakes & Megacities; with Focus on Tehran"	
	Chairmen: H.R. Khanmohammadi, M. Eghbali, E. Salimi, M. Abdollahi, A. Kalantari, K. Mohazab, A. Rabar Basir, M.M. Mohammadi	
	New technologies and school organization (Part 4)	
	<ul style="list-style-type: none"> - Capacities of school organization for seismic mitigation - New and existing building challenges - Extension of school organization experiences to building in megacities using new technologies 	
VIP Hall Structural Earthquake Engineering	Session Subjects: Smart Systems, Resilient Systems with limited damage	
	Chairmen: M. Grigorian, F. Nateghi Elahi, M. Nekooei	
	E. Ghorbi, H. Toopchi-Nezhad [07220680]	Invited lecture: Seismic isolation of a residential masonry building with annular unbonded elastomeric isolators
	A. Rahmanikhah, M. Mahmoudi Sahebi [01060109]	Post-earthquake evaluation of structures through the model updating damage detection method using PSO optimization algorithm and different fitness functions
	S. Masrour, P. Homami, M. Shahrouzi [01350091]	Damage detection of bracings in steel frames by observer-teacher-learner based optimization
	M. Babapour, A. Vaseghi, S. Eshghi [01690117]	Studying application of negative stiffness device for seismic protection of steel structure
	M. Zarbilinezhad, A. Gholizad [01180107]	Assessment of tuned mass dampers and friction tuned mass dampers for enhancing structural performance using endurance time method
	A. Moeinadini, M. Ziyaeifar, M. Nekooei [02400171]"	Application of facade control connections to improve seismic response of structural and non-structural components
	R.e Ansari Targhi, M. Ansari Targhi, M. Grigorian, V. Broujerdian [01250089]"	Development of sustainable seismic structures
1 Geotechnical Earthquake Engineering	Session Title: Site Effects and Soil-Structure Interaction	
	Chairmen: S.M. Moosavi, N. Ganjian, M. Fadaei	
	P. Kavandi, N. Ganjian, M. Panji [03940412]	Seismic analysis of hill-shaped topographic features subjected to SH-wave by a DR-BEM approach
	A. Baghcheghi, M. Adibi, M. Khandan bakavoli [02280346]	Studying the effect of topography on strong ground motion using accelerography data of Iran
	S. Bazoobandi, M. Shamekhi Amiri, M. Keramati [01480121]	Laboratory evaluation of vibration isolation of machine foundations by SRM trench
	R. Khodabakhshi Soureshjani, H. Ghasemzadeh [00200176]	The effect of soil structure interaction on the seismic performance of buckling restrained braced frames
	M.M. Beyrami, A.R. Mirza Goltabar Roshan, H.R. Tavakoli [05590520]	Investigation of soil-structure interaction on reduction or amplification of responses of structure
J. Najafzadeh, A. Hatami Rad [06260647]	Seismic response of ridge angle effects of trapezoidal alluvial valleys under shear waves using numerical method of spectral elements	

Details of Oral Presentation's Sessions
Wednesday, 8 May 2024, 16:15-18:00

Hall	Authors	Subject
3 Structural Earthquake Engineering	Session Subjects: Smart Systems, Resilient Systems with limited damage	
	Chairmen: H. Moghadam, F. Behnamfar, A. Soroushian	
	M. Aghliani, F. Behnamfar [01400180]	Invited lecture: Behavior and performance of the pure bending yielding damper under concurrent in-plane and out-of-plane loading
	H. Moghadam, M. Zare Golmoghany [03840308]	Introduction the adaptive optimization method for seismic design
	A. Akbari Hamed, M. Saeidzadeh, H. Bafandeh Nobari [04030323]	Economic and sustainable seismic base isolators: experimental and numerical study
	M. Amin Fadaie, M. Nekooei, M.R. Mansouri [03970319]	Numerical study of passive seismic control hybrid system
	N. Seidabadi, J. Shafaei [01290584]	Numerical study of seismic retrofitting of RC external joints by joint enlargement using concrete corners with abaqus software
	A. Akbari, M. Piri, M. Salavati-khoshghalb, S. Amiri [01570293]"	Advancing building resilience: a comprehensive review of low-damage construction technology and innovations
5 Seismology (Makran)	Session Subjects: Seismotectonics and Paleoseismology, Seismic Tomography	
	Chairmen: A. Ghods, M. Tatar	
	A. Ghods, E. Bergman, M. Akbarzadeh Aghdam, M. Khaledzadeh [05110455]	Invited lecture: The geometry of Makran subducting plate as Inferred from Relocated Seismicity Map
	Kh. Motaghi, M. Veisi [04150329]	Exploring makran accretionary wedge and arabian oceanic lithosphere by joint inversion of P-Receiver function and apparent S-wave velocity
	A. Mehrdar, Kh. Motaghi, A. Ghods, E. Shabaniyan [05210456]	High-resolution 2D surface wave tomography of the Makran subduction zone from ambient seismic noise and local earthquake
	A. Rashidi, M. Mokhtari, D. Dutykh, M. Masoodi, P. Faridi, S. Kiani [05350560]	A glimpse into tsunami hazard research in Makran, with a focus on complex tsunamis
	S. Abbasi, Kh. Motaghi [06220631]	Investigation of shallow structures in Makran subduction zone using harmonic analysis of receiver functions
	M. Akbarzadeh Aghdam, A. Ghods [02980356]	Comparison of the Makran seismicity rate with other subduction zones
L. Etemadsaeed, H. Zafarani, F. Saber [06390650]	Sensitivity analysis of tsunami numerical modeling to bathymetric data and finite difference grid spacing	
Rudaki Hall Elite Meeting	Elite Meeting "Earthquake Research Priorities for Iran; Previous & Future Challenges"	
	Chairmen: M.H. Baziar, M.T. Ahmadi, A.R. Rahai, M. Mohammadi, H.Zafarani, M. Allami <ul style="list-style-type: none"> - International Experiences on earthquake research priorities, including: USGS, NSF, NEHRP, UNDP, etc - National Experiences, regulations and guidelines - Earthquake subjects' framework and priority - Discussion on earthquake research subjects and priorities, with focus on mega projects 	

Details of Oral Presentation's Sessions

Thursday, 9 May 2024, 08:00-09:45

Hall	Authors	Subject
Sa'adi Special Session	Special Session on "Earthquakes & Megacities; with Focus on Tehran"	
	Chairmen: E. Salimi, A.K. Salehi, R. Ahmadi, K. Mohtasham Dotashahi, A. S.Moghadam, P. Dashtian	
	Review of the seismic mitigation plans for Tehran megacities (Part 5)	
	<ul style="list-style-type: none"> - Review of mitigation plans of TDMMO - Review if mitigation plans of Tehran City Council - Development of road map for Tehran DRR 	
VIP Hall Structural Earthquake Engineering	Session Subjects: Smart Systems, Resilient Systems with limited damage	
	Chairmen: A. Kheyroddin, M. Mohammadi, F. Hatami	
	A. Kheyroddin, M. Akhavan Salmassi [04430359]	Invited lecture: The effect of end shear walls on reinforced concrete tall buildings behavior with irregularity in height
	F. Mahmoudi, A. Rahai, F. Hatami [02690382]	Eccentrically braced frame systems without diagonal members and with increased beam depth
	B. Heydari, M. Mohammadi, O. Bahar [04700399]	Experimental study of the behavior of a small-scale model of a real structure on an earthquake simulator
	B. Heydari, O. Bahar, M. Mohammadi [04700463]	Laboratory studies on the seismic behavior of resilient friction connections
	H. Mohammadnezhad, S.S. Seyedsharifi [04260362]	Mitigating seismic response in steel frames through meta-foundations: a finite element study
	S. Zamani Amirzakariya, M. Soltani Mohammadi, Sh. Zare Bidaki [04010322]	The effects of soil-structure interaction on seismic performance of special reinforced concrete moment frames
P. S.Moghadam, N. Nicholas Rich, S. Naghavi [00950413]	Framing earthquake risk reduction using subfactors from the management of new product development processes: a methodology for influential factor ranking determination	
1 Geotechnical Earthquake Engineering	Session Title: Geotechnical Hazards (Landslide, Liquefaction, etc.)	
	Chairmen: E. Haghshenas, F. Jafarzadeh, F. Askari	
	M. Rajabigol, S. Hadei, F. Jafarzadeh, H. Farahi Jahromi [00290489]	Invited lecture: Effects of burial angle on pipeline response to earthquake-induced landslide
	M. Shabani SoltanMoradi, M. Azadi, H. Jahanian [05250460]	Multi-objective optimization of depth, diameter, and thickness of tunnel lining in a liquefiable sand lens under earthquake loading
	S. Baktash, R. Alipour, R. Kamgar [05440497]	Effects of soil-cement columns in liquefaction mitigation and compressive strength of loose soils
	P. Tavassoli, A.R. Zarnousheh Farahani, B. Ebrahimian, A. Noorzad [05780572]	Investigating the effect of Liquefiable layer depth on the seismic response of composite breakwater
	S.H. Madani, H. Alielahi [01750284]	Numerical study of the use of deep mixing method with grid pattern in the improvement of liquefiable soils in order to reduce the seismic response of structures
Sh. Zare Bidaki, A. Ghalandarzadeh, S. Zamani AmirZakaria, S. Ghalandarzadeh, M. Shirazi [04170333]	Comparing the effects of fluid scaling on liquefaction in geotechnical centrifuge	

Details of Oral Presentation's Sessions

Thursday, 9 May 2024, 08:00-09:45

Hall	Authors	Subject
3 Structural Earthquake Engineering	Session Subjects: Smart Systems, Resilient Systems with limited damage	
	Chairmen: Gh. Ghodrati, A. Manafpour, A. Vaseghi	
	S. Ansarighadim, A. Manafpour [05120544]	Invited lecture: Development and analytical evaluation of an innovative self-centering viscoelastic damper with disk spring
	H. Azizi-Bondarabadi, N. Haji Sadeghi [00810540]	Modal analysis of the windcatcher struture using the results of ambient vibration test
	S. Sedighi, M. Grigorian [01010549]	A brief treatise on resilient/sustainable seismic design
	N. Mohammadi ,Y. Kuwata [06470658]	Evaluating redundancy in langer arch steel aqueduct bridges
	M. Arvan, M.H. Ahmadvand, S. Arian-Moghaddam, A.H. Khalvati [01980578]	Evaluation of seismic safety margin of a hospital structure using resilience based criteria
	A.H. Shahzamani, P. Asadi [03890314]	Seismic vulnerability assessment of steel structures equipped with self-centering friction damper
	O. Ranaei, M. Bagheri, A.A. Rezapour [05770559]"	Fabrication and investigation of the functional mechanism of the combined friction and metallic yielding dampers for mild to severe vibrations
5 Seismology	Session Subjects: Seismic Networks, Seismic Tomography, Deep Learning and AI in Seismology, Engineering Seismology and Strong Ground Motion	
	Chairmen: S. Soltanimoghadam, L. Etemadsaeed	
	S. Soltanimoghadam [02390206]	Invited lecture: Syntseis: A python package for generating synthetic and real-world simulated earthquake bulletins
	J. Valovcan, P. Moczo, J. Kristek, M. Kristekova, M. Galis	The principal accuracy limit of seismic wavefields simulated by the finite-difference method?
	S. Soltani, I. Kahbasi, E. Haghshenas [05820568]	Application of the random decrement method for estimating shear wave velocity in deep basins through coda waves
	M. Veisi, Kh. Motaghi, Ch. Schiffer [04300345]	Solving a 40-year-old problem in seismology; a novel approach to invert receiver function time series
	N. Najafipour, J. Antonio Puente Huerta, Ch. Sippl [03810435]	Advancing seismic catalogs in northern Chile: insights from modern deep learning
	I. Kahbasi, S. Soltanimoghadam, E. Karkooti, M. Tatar [05820616]	Evaluating deep learning models for automatic phase picking in large earthquakes ($m > 4.5$): analysis of iiees seismic network
	S. Amiri, M. Tatar, A. Maggi, Ch. Zaroli [06340649]	Sola backus-gilbert rayleigh wave group velocity dispersion tomography of iranian plateau using local-regional earthquakes and ambient seismic noise
Rudaki Hall Structural Earthquake Engineering	Session Subjects: Smart Systems, Resilient Systems with limited damage	
	Chairmen: K. Nasserasadi, M. Zaman Kabir, O. Bahar	
	K. Nasserasadi, R. Rajabi, E. Tafakori, J. Ahmadi [06380648]	Invited lecture: Evaluation of the efficiency of wavelet transform to identify the damage of reinforced concrete moment frames following seismic events
	M.R. Shiravand, S. Rassoulpour, P. Poorahad Anzabi [00270014]	Micro and macro modeling approaches for seismic performance prediction of self-centering rocking structures
	A. Moazezi Mehretehran, M. Jafary [00130010]	Experimental study of a sample honeycomb damper
	V. Ghasemi [00790061]	Online modal identification by a novel variable step size adaptive blind sources separation
	M. Sabbaghian, M. Zaman Kabir [00150006]	Enhancing concrete column performance with shape memory alloys focusing superelastic behavior: a state-of-the-art review
	E. Ghorreshi, M.R. Mansoori, M. Hosseini [00870064]	Application of life cycle cost analysis in seismic design of structures
A. Mohajeri, A. S.Moghadam, M. Yakhchalian [04500374]"	Considering higher mode effects in performance-based seismic design of controlled rocking steel cores	

Details of Oral Presentation's Sessions

Thursday, 9 May 2024, 10:15-12:00

Hall	Authors	Subject
Saladi Special Session	Session Title: Keynote Lectures	
	Chairmen: A.A. Taheri Behbahani, A. Vaseghi, E. Salimi, A.K. Salehi, K. Yazdannejad, A. S.Moghadam, A. Khorramabadi	
	Resilient Building Design	
	M. Vassiliou (Switzerland)	Keynote lecture: Seismic response modification using geometry controlled approaches
	F. Tehrani, M. Grigorian (USA) [03280367]	Keynote lecture: Sustainable and resilient structural engineering for earthquake resistant design
	F. Tehrani, M. Grigorian (USA) [03280375]	Keynote lecture: Mechanisms of sustainable and resilient structural engineering for earthquake-resistant design
	<ul style="list-style-type: none"> - The concept of resilient, repairable and sustainable buildings - State of practice - New developments and trends - Discussion and Conclusions 	
VIP Hall Structural Earthquake Engineering	Session Subjects: Artificial Intelligence in Computational Methods, Software Development	
	Chairmen: M.Gh. Vetr, H. Saffari, A. Soroushian	
	Sh. Taheri [05840586]"	A case study on the development of a smart bayesian model for predicting the maximum drift
	S. Morshed Shekarchi, A. Meshkat-Dini, A. Massumi [05570596]	Investigating the influence of the acceleration coherence method in near-field records with directivity effects on the response of high-rise diagrid structures
	M.R. Parvizi, K. Nasserasadi, E. Tafakori [05730550]"	The seismic fragility functions development for low-rise steel frames using artificial neural networks and identification of influential input parameters
	M. Ghafarian Tamizi, M. Banazadeh [05530516]	A machine learning based approach to estimate nonlinear dynamic response of reinforced concrete moment-resisting frames
M.J. Khosravi, Sh. Hashemi [05450493]	Estimates and predicts vulnerability of concrete structures in earthquakes with the artificial neural network approach	
1 Special Session	Special Session on "Earthquake and tsunami hazard and risk assessment for western Makran"	
	Chairmen: A.R. Tootoonchi, H. Zafarani, M. Tatar, A. Kalantari	
	A.R. Tootoonchi	The position of technical & executive system in Makran region studies
	H. Zafarani	Explanations about the project of earthquake and tsunami hazard analysis in west Makran at IIEES
	M. Tatar	Seismicity and geometry of the Makran subduction zone
	M. Mahood	Application of simulation in completing data bank
	H. Ghadimi	Active deformation in Makran region
	M.R. Soghrot	Ground motion prediction equations of interface subduction earthquakes for horizontal PGA and 5% damped response spectra
	L. Etemadsaeed	Probabilistic tsunami hazard analysis for west Makran
	M. Rahimi	Successive seismic and tsunami risk assessment for western Makran coast
A. Kalantari	Tsunami load and effects / Guide to the tsunami design	

Details of Oral Presentation's Sessions
Thursday, 9 May 2024, 10:15-12:00

Hall	Authors	Subject
3 Earthquake Risk Management	Session Title: Recovery and Reconstruction Needs and Plans, Risk and Resilience Models and Systems	
	Chairmen: M. R. Ghayamghamian, B. Omidvar, B. Mansouri	
	M.R. Ghayamghamian, S. Ahmadi [01240086]	Assessment of seismic resilience of urban network and recovery strategies: case study in Karaj
	O. Musavi, E. Oloomi, E. Firuzi Kermanshahi, K. Amini Hosseini [05850581]	Estimating building debris volume in the case of the rupture of North Tehran Fault in Tehran, Iran
	M. Abdolkarimi, A. Ansari, E. Firuzi Kermanshahi [04950538]	Optimization of mass casualty management using agent based simulation
	Sh. Tahmasebi, B. Omidvar [05240502]	Assessing the resilience of the urban water supply system in dealing with earthquakes using the system dynamics model
	B. Malekmohammadi, A. Sadeghian, S. Ganjeji [05260461]"	Study of uncertainty modeling methods in disaster management
	M.T. Akbari, B. Mansouri, A. Ansari [05400548]	A review of agent-based modeling in natural disasters with an emphasis on earthquake emergency response
5 Seismology (East Iran)	Session Subjects: Seismotectonics and Paleoseismology, Earthquake Source Modeling	
	Chairmen: A. Moradi, M. Mahmoodabadi	
	M. Mahmoodabadi, S. SoltaniMoghadam, F. Yamini-Fard, M. Tatar, M. Ahmadzadeh Irandoust, A. Rashidi [04340347]	Invited lecture: Seismic insights into the orogenic dynamics of the Eastern Iranian Ranges
	A. Ardeshiri, M. Foroutan [04190336]	Preliminary estimation of the right-slip rate and seismic potential of the Kahurak fault, SE of the Lut block
	L. Mahshadnia, S. A. Alavi, M.R. Ghassemi, Z. Mousavi [04840486]	The study of deformation fields of seismic cycle using InSAR time series solution in the west of Lut block
	M. Shabani, A. Ghods, E. Shabaniyan, J. Braunmiller [05080440]	Seismotectonic zonation at North-East Iran
	Z. Malekzade, O. Bellier [05890591]	Tectonic model-based critique on conventional seismic hazard evaluations
	H. Zeynal-Kheiri, K. Moghtased-Azar, A. Safari [05950628]	Reducing the effect of random data errors by using minimum-variance unbiased estimator in moment tensor inversion
Rudaki Hall Structural Earthquake Engineering	Session Subjects: Artificial Intelligence in Computational Methods, Software Development; Industrialization, Earthquake Engineering and NaTech	
	Chairmen: M.J. Hamidia, M. Banazadeh, O. Bahar	
	M. Sheikhi, A.H. Asjodi, K. Mohtasham Dolatshahi, M.J. Hamidia [00430059]	Invited lecture: An image-based approach for automated damage assessment of reinforced concrete columns
	M. Mohammadi, Sh. Farajollahi, N. Khaji [04060328]	Optimizing seismic response of base-isolated elevated liquid storage tanks utilizing meta-heuristic algorithms
	B. Amani, M. Nouri, S.A. Mousavi Ghasemi [03880316]	Optimum design of steel frames using genetic algorithm and customized biogeography-based optimization
	E. Hadizadeh Raisi, A. Hajimirzajan, M. Norouzi [05390485]	Investigating and prioritizing the strengthening of rail transport infrastructure within the scope of the Khorasan railway general administration against earthquake hazards with a fuzzy logic approach
	M. Sheikhi, S. Rezaei [00430077]	Damage assessment of unreinforced masonry walls using visual damage features
	F. Zareian, M. Banazadeh [03470273]	Estimation of maximum interstory drift ratio of steel moment-resisting frames using machine learning

Details of Poster Presentation's Sessions

Tuesday, 7 May 2024, 13:30 – 18:00, Poster Hall

Session	Authors	Subject
Structural Earthquake Engineering	E. Rajabi, F. Ghadami [00620026]	Investigation of drift ratio in high strength steel frames equipped with eccentrically braces and 304L steel links under seismic sequence
	R. K. Badri, I. Torabpour [00730038]	Examining the collapse behavior of low-rise structures with torsional flexibility
	S. Faramarzi, M. Yakhchalian [00480041]	Evaluation of deflection amplification factor for steel special moment frame with setback
	A.H. Derakhshan Nezhad, M. Mirzaei Aliabadi [00310047]	Comparison of seismic risk analysis of steel structure with waffle and flat roof
	P. Hassani, S. Rasti, S. Tariverdilo [00840049]	Application of ASCE 7-22 performance-based design procedures for different building types in height using recorded and simulated ground motions
	F. Gorji Sinaki, A. S.Moghadam, F. Emami [00940070]	Seismic behavior evaluation of LRB and FPS combined isolator in residential structure
	M. Hajizadeh, A. Massumi [01190087]	Comparison of the performance of integral abutment and simple bridges under thermal and seismic loads
	A. Maleki, R. Khalili Sarbangoli, R. K. Badri [01410099]	Evaluation of cyclic behavior of steel frame with infill plate and eccentric brace
	S. Naghavi, A. S.Moghadam, H. Seyri, M. Yekrangnia [00950103]	Development of vulnerability assessment checklist for masonry buildings
	O. Makhdoom, A. Aziminejad, A. S.Moghadam, P. Zarfam [01300113]	Investigating the seismic performance of asymmetric structures designed based on ASCE/SEI 07-22 seismic code by using nonlinear incremental dynamic analysis
	M. Kahrizi, A.H. Akhaveissy [01830128]	The effect of transverse reinforcement and grout on the behavior of reinforced masonry walls strengthened, using reinforcement and shotcrete method
	B. Rezaee, P. Tehrani, B. Behnam [02240154]	Evaluation of the effect of modeling RBS, WUF-W, and rigid beam-to-column connections in the performance-based assessment of steel moment frames
	B. Rezaee, P. Tehrani, B. Behnam [02240155]	Evaluation of nonlinear drift in steel moment frames considering the effect of rigid, RBS, and WUF-W connections
	B. Sahebian, A.H. Jafarieh, A.li Asgari [02550187]	Examining the base shear demand for the designed structures and comparing it with standard 2800 under the horizontal and vertical components of the earthquake
	A.R. Karoubi, S.M. Lashgari Gehraz, M. Pirzadeh [02570191]	Evaluation of seismic vertical component effects on non-structural elements with electric motors installed in buildings at near-fault regions
	A. Farsharif, A. S.Moghadam [02500200]	Rebar istalation problems in construction
	A. Parvari, A.H. Mahrokhzade, A. Khateri [02000249]	Investigating the combination of viscous damper and seismic isolator on the seismic performance of steel structures using IDA incremental dynamic analysis
	AM. Nouri, M.A. Najafgholipour [00750257]	Investigation on analytical formulas for estimation the shear strength of squat reinforced concrete walls
	M. Moosavi Asl, M. Ziyaeifar [02510266]	Case study of seismic performance a masonry arch bridge using a simplified model
	K. Zohrab, A. Yaghoubifar [02770416]	Developing concrete damage plasticity model by Mazars damage
	A. Gholizadeh [06250633]	Providing new approaches to strengthen structures against earthquakes
	A. Arabzade, F. Abdi [03250271]	Numerical analysis of effective parameters in performance of reinforced concrete coupling beams
	B. Haseli, M.R. MozafarPour, M. TodeRosta, M.H. Ansari, F. Heydarnejad, A.H.Barjesteh [03790309]	Evaluation of the effect of the middle pier geometry on the seismic performance of concrete bridges

Details of Poster Presentation's Sessions

Wednesday, 8 May 2024, 08:00 – 12:30, Poster Hall		
Session	Authors	Subject
Seismology	M. Masih, A. Seyfpour Aboalhassani [00920057]	Investigation of changes in induced seismicity rate of Seymare Dam
	R. Alikhanzadeh, H. Zafarani, B. Hassani [01660122]	Estimating the site effects of Tehran plain and its effect on the simulation results of strong ground motion
	N. Azari, M. Motevali Emami, M.R. Soghrat [02670275]	Investigation of the methods considering near-fault earthquakes in the response spectrum of structures
	H. Moghadam, A.R. Hajipour, M.A. Sanagar Darbani [02710313]	Development of a seismic catalog of big shallow crustal earthquakes that occurred in the last 50 years in iran
	A. Songhori, Z. Aghabeigi Boldaji, A. Sadidkhoy [04210337]	Detection of the main block of the fault that caused the Tabas earthquake (Dec.13,2022) with a magnitude of 5.6
	M. Mahood, S. Shahshahani [04470368]	Earthquake risk assessment and providing a uniform hazard spectrum for government buildings in Tehran
	M. Peyrovani, H. Rahimi, F. Romanelli, A. Sadidkhoy [04480369]	A comparative study of the actual maximum acceleration values of the 5th december 2008 Bam earthquake eith the estimated acceleration
	N. Afsarinejad, H. Shamsi, M.H. Bagheripour, S.M. Marandi [04650389]	Comparing the performance of newmark, central difference and jennings method in generating artificial response spectrum
	M. Samaei, J. Karashi [01540392]	Data usable bandwidth for earthquakes recorded on SSA2 accelerograms of Iran Strong Motion Network (ISMN)
	M. Ranjbar Hajee Abadi, F. Sobouti [02310487]	Teleseismic P-Wave coda autocorrelation imaging of upper crustal structure, in western alborz
	H. Zanganeh, H. Saffari [02230561]	Investigating pulse-like earthquakes in Iran using wavelet transform method
	M. Mohammadian [01460611]	Risk-targeted probabilistic seismic hazard analysis for siraf port
	A. Shmgani, H. Saffari [02230612]	Frequency analysis of the accelerometers of the near, medium and far field of the Masha earthquake of 2020 using wavelet transform
	M. Faraji, A. Sadidkhoy, N. Dolatabadi [06060619]	Probabilistic seismic hazard assessment of the southwest of Iran
	M. Mahood [04470636]	Capability of seismic networks of metropolises - Tehran
	M. Mahood, A. Ramthan, H. Zafarani [04470689]	Estimation of coda wave attenuation in iran-iraq border region
Earthquake Risk Management	A. Ebrahimi, M. Mohammadi Deh Cheshmeh [02080143]	The role of planning in reducing damage from earthquake hazards
	K. Zhale [02470177]	Evaluating the impact of human factors on the severity of damages caused by earthquakes
	A. Fallahi, S. Abdollah, F. Aslani [01610394]	Reducing the physical vulnerability of the neighborhood against earthquakes (case study: Shahid Beheshti neighborhood in Chahardangeh, Tehran)
	K. Ziari, S. Zanganeh, A. Ghafouri Zarandi [01950407]	Rapid assessment pattern of identifying vulnerable housing before earthquake incident (case study: region of North Ostad Hassan Bana street to Bani Hashem street)
	M. Bornafar, S. Naghdi Molome [04860411]	Investigating physical-spatial resilience (case of Aref Square in Qazvin city)
	B. Malekmohammadi, S. Ganjehi, A. Sadeghian [04930426]	Investigating meta-heuristic algorithms and their application in disaster management (case study: Whale Optimization Algorithm (WOA))
	N. Kheirkhah, E. Firuzi, K. Amini Hosseini, A. Ansari [05850582]	A risk-targeted seismic design map for the golesan province in iran
	S. A. Mirhakimi [06550670]	How to increase the sustainability of historical cities during natural hazards and disasters (case study: Rome, Italy)
	S. Mohammadzadeh Soveiri [06560668]	Sustainable urban planning for flood management, case study: BRISTOL

Details of Poster Presentation's Sessions

Wednesday, 8 May 2024, 08:00 – 12:30, Poster Hall

Session	Authors	Subject
Geotechnical Earthquake Engineering	H. Eghbali, R. Rafiee-Dehkharghani, A. Fakher, K. Laknejadi [01000067]	Finite element modeling of ground improvement using dynamic compaction method
	M. Mokhberi, A. Kamali [01450127]	Effect of near and far field on dynamic response of structures built on expansive marly soils
	E. Sharafi, A. Bazrafshan Moghadam [02700216]	Zoning of soil resistance parameters using geographic information system GIS and using borehole data: a case study of Shahrood city
	E. Feizabadi [03440270]	Evidence of rock falls and toppling of coseismic huge rock blocks with the possibility of reoccurrence in the north of Tehran, Jamshidieh Park
	B. Haseli, M.R. Mozafarpour, F. Heydarnejad, M.H. Ansari, S. Abbasi [03790311]	Investigating the effect of strike-slip fault intersection on the seismic response of mid-level structures (Nyavaran fault and Sadr highway Bridge)
	M. Mehrvarzan, A. Derakhshani [03560342]	Assessment of liquefaction prediction models using fuzzy membership functions
	M. Rahimi, A. Firoozfar, H. Alielahi [04000360]	Extraction of fragility curves of the back-to-back MSE walls under near-field and far-field earthquakes
	S. Gholizadeh, J. Mokari Rahmdel, E. Shafei, A. Javanbakht Gholonji [04990431]	The use of concrete piles in structures upstream of the slope in order to improve the seismic performance of the structure against the earth drift
	A. Mahboubi, R. Sadeghian, R. Irani, M. Maleki [05050436]	A case study of soil liquefaction potential in the Persian Gulf coastal areas using numerical simulation
	R. Alipour, Z. Teymouri, R. Kamgar [05420491]	Effects of improving loose soils on the settlement control of foundations by high-pressure injection
	M. Sadeghpour Monfared, S.M. Moosavi [05630536]	An overview of surface faulting mitigation measures on pipelines
	Y. Shams Maleki [02990542]	Evaluation of seismic studies of DHTs in a wide area - case study: Kermanshah train city
	M.M.i Pardsoiue, S.M. Ali Zomorodian, M. Mokhberi [01470105]	Feasibility of applying blast preloading as an auxiliary or alternative to surcharge or vacuum preloading in the improvement of soft clay soils
	M.A. Sheykhi, M. Kamalian, S.M. Moosavi [04960656]	Investigating the suitable physical modeling containers in previous studies: with special attention to the ESB container
Structural Earthquake Engineering	M. Yazdani, N. Moradi, S.J. Hashemi [00300022]	Nonlinear static analysis of putra interlocking masonry wall using micro-modeling approach
	M. Yazdani, N. Moradi, S.J. Hashemi [00300023]	Seismic assessment of putra interlocking masonry wall using pushover analysis
	A. Sattari, A. Maleki, M.A. Lotfollahi [01070126]	Flexural steel frames under the effect of near-fault earthquakes with and without rotational friction dampers
	S. Kamali, M. Adibi [02250156]	Investigating the effect of bricklaying method on the structural behavior of masonry walls
	S.B. Alehojjat, M. Yakhchalian, O. Bahar [03050279]	Seismic performance assessment of mid-rise steel structures with dampers designed by the modified DDBD method
	M. Aghabeigi, J. Akbardoost, M.R. Ayatollahi [03480280]	Numerical Analysis of higher order terms in various beams for determining the fracture toughness of quasi-brittle materials
	B. Haseli, M.R. Mozafarpour, M. Toderosta, M.H. Ansari, F. Heydarnejad, A.H. Barjesteh [03460305]	Evaluation of the effect of the middle pier geometry on the seismic performance of concrete bridges
	F. Alizadeh, R. Basami, Z. Zarei, A. S.Moghadam [00520174]	Studying the effect of structure height on seismic fragility curves in steel moment frame structures

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Wednesday, 8 May 2024, 08:30 – 12:30, Poster Hall		
Session	Authors	Subject
Structural Earthquake Engineering	M.A. Naghibi, S. Manie, R. Basami [01080084]	Seismic performance assessment of steel moment frames equipped with viscous dampers
	S. Nazari, P. Tehrani [03760376]	Evaluating the effect of corrosion on the seismic performance of irregular reinforced concrete bridges with different column heights
	S. Kamali, M. Adibi	Investigating the effect of bricklaying method on the structural behavior of masonry walls
	S. Nazari, P. Tehrani [03760378]	Seismic performance evaluation of irregular RC bridges considering chloride corrosion and different length of spans
	F. Taghi Panahi, A.A. Akbarzadeh Morshedi [04920419]	The effect of geometry (height and plan) on the seismic response of historical multi-span arch masonry structures
	A. Ghaedrahmati, M. Zand, A. Lohrasbi [02190438]	Investigation the seismic behavior of braced steel frames with semi-rigid flange connection
	S.M. Mahdi Etemadi, F. Homaei, H. Shakib [03720443]	Lateral load-bearing performance of concrete jacket made of fiber-reinforced concrete (UHPC) and ordinary concrete in strengthening steel bridge piers
	H. Haghgou, M. Matinfar, A. Bigdeli [05170449]	Assessment of various intensity measures on the performance of intake tower structure and prediction of the results under earthquake ground motions based on the artificial neural network
	A. Jannessartolou, S. Pourzeynali, A. Radman [05300465]	Topology optimization of braced steel frames under earthquake loads by simulated annealing algorithm (SA)
	P. Vaghefi Fard [05490499]	Assessment and comparison of the seismic performance of structures in the near fields considering the effect of site distance
	R. Sarikhani, M.A. Najafgholipour [05510511]	Experimental study on out-of-plane behavior of retrofitted masonry walls with near-surface mounted (NSM) glass fiber reinforced polymer (GFRP) rebars
	A. Ghaedrahmati, M. Zand, A. Lohrasbi, M. Farajollahi [02190523]	Investigation the seismic behavior of connection in reinforced concrete frames reinforced with carbon fiber
	F. Davodijam, A. Komeyzi, P. Zakian [05320529]	The effect of spectrum damping in seismic design of single-layer domes with response spectrum analysis
	S. Dilmaghani Khameneh [05720539]	Investigating the effect of the frp fiber arrangement in reinforced concrete coupling beam on the energy absorption rate of coupled reinforced concrete shear wall system
	M. Saravani, A.S. Maleki [04980557]	Seismic vulnerability of brick and clay structures of rural settlements and its retrofit solutions
	M. Zand, A. Ghaedrahmati, A. Lohrasbi, M. Farajollahi [02190588]	Investigation the behavior of reinforced concrete beams reinforced with carbon fiber
	M. Zand, A. Ghaedrahmati, A. Lohrasbi, M. Farajollahi [02190595]	Investigating the behavior of reinforced concrete beams reinforced with glass fiber
	M. Ghabezi, M.A. Hadianfard, M.A. Najafgholipour [01870643]	Numerical investigation on the steel beam with tapered flange to column connection in special moment resisting frames and the comparison of its behavior with conventional reduced beam section connection
	R. Miveh, H. Moghadam [05270475]	Determination of response modification factor for steel frames with saddle (khorjini) connections and rc shear walls on the basis of FEMA P695 rationale
	A. Vedad, M. Bagheri, A.A. Rezapour, M. Akbari [04610598]	Assessment of 20-story steel double moment frame with diagonal bracing with shape memory alloy rod using fragility curves
M.R Shokrzadeh, A.M. Owais, M. Sharifi [06870673]	Evaluate the effectiveness of retrofitting using the CFRP NSM method and FRP strip bonding for seismic strengthening of concrete beam-to-column connections	

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Wednesday, 8 May 2024, 13:30 – 18:00, Poster Hall		
Session	Authors	Subject
Seismology	Z. Sadat Riazi Rad [00600116]	Seismic risk zoning in the central Iran
	N. Kosari, A. Ghods [02540185]	Investigating the rupture directivity of recent moderate and large earthquakes in Iran
	M. Ghamari, M. Shooshtari [03060223]	Patterns in the two horizontal components of a seismic record
	A. Bazrafshan Moghaddam, A. Hormozi [03170324]	Seismic risk assessment within the boundaries of the Mamlou dam water pipeline to Tehran
	M. Akbarzadeh Aghdam, M. Veisi, Kh. Motaghi, Ab. Ghods [02980357]	Determination of attenuation coefficients in Makran, Iran using temporary seismic network
	M. Mahmoodabadi, L. Jalalian, S. Soltanimoghdam, M. Radad, Z. Mokhtari, A. Masihi [04340371]	A deep neural network examination of microseismicity in the northern portion of the main recent fault
	M. Asgari, M. Seyed Razzaghi [03740385]	The effect of focal mechanisms on seismic performance of bridges subjected to near fault ground motions
	S. Shahshahani, M. Mahood [04850410]	Artificial intelligence and deep learning in earthquake prediction
	M. Matinfar, N. Khaji [05280462]	Design spectrum-compatible synthesis of artificial accelerograms utilizing generative adversarial networks
	F. Taghizadeh-Farahmand, N. Afsari, A. Sadat Chavoshy [05560512]	Evaluation of deterministic seismic hazard by using fuzzy inference system in petroleum storage of Shahid Zain-al-Din Qom
	S.M. Mousavi Ghayahgheshlaghi [05160524]	Recognizing damage patterns and internal space loss in collapsed structures: a key to earthquake risk estimation with applied element method (AEM)
	S. Mohammadnia Joneid, Sh. Pourbeyranvand, M. Tatar, A. Gholamzadeh [05860622]	Comparison of spring parameters extracted from radar interferometry method and common methods in seismology in Iran
	S.H. Mousavi, A. Moradi, M. Pakzad [06210629]	Determining the focal mechanisms of earthquakes with magnitude 4.5 and higher in Bushehr province (2017-2024) using the seismic moment tensor inversion
	B. Adhami, H. Zafarani, M. Mahood, S. Saadat [02800635]	Quantitative investigation of shiraz seismic risk using the nowcasting earthquake method
	M. Mirzaee Valdi, M. Pakzad [05340687]	Determination of earthquake focal parameters using BOMP algorithm
Geotechnical Earthquake Engineering	Z. Sadat Riazi Rad, E. Afkar [00600025]	Earthquake effect on Niayesh tunnel in Tehran
	Z. Khodaverdlou, P. Katal Mohseni [00930069]	Numerical analysis of twin tunnels with various cross-sections under seismic loading
	M. Mokhberi, H. Khademimashari, Gh. Atefatdoost [01450184]	Effect of clay alluvium thickness and tunnel geometry on dynamic response of tunnel-soil system
	A.R. Borujerdi [01600227]	Assessment of aggregate backfill for geosynthetic-reinforced mse walls
	N. Sarshar, A. Derakhshani [03560290]	Seismic analysis of sheet pile wall using Mononobe-Okabe theory based on fuzzy logic
	A. Parvari, M. Etminan Rad [02000291]	Numerical evaluation of the impact of explosion on the stability of railway tunnels
	M. Yasemi, A. Bazrafshan Moghaddam [04490372]	Investigating the seismic performance of diaphragm retaining wall using random field theory
	F. Rajabinasab, H. Shamsi, M.H Bagheripour, S.M. Marandi [04820408]	Effect of Poisson's ratio of soil on seismic stability of wall reinforced with geogrid and gabion under different overburden stresses
	A. Javan Bakht Qulunji, J. Mokari Rahmdel, S. Tariverdilo Asl, S. Gholizadeh [05000432]	Study on the seismic performance of reinforced concrete structures with moment resisting frame located on a slope under the influence of upstream structures

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Wednesday, 8 May 2024, 13:30 – 18:00, Poster Hall		
Session	Authors	Subject
Geotechnical Earthquake Engineering	M. Aghababaei, E. Izadi Zaman Abadi, M. Amin Bayari [04290439]	Adequacy of the RSM in analyzing the uncertainty of soil characteristics at the level of structural collapse
	H. Pourhabiby Masuleh, M. Azadi [04100445]	Investigating the effect of different parameters on the interaction of twin tunnels and adjacent surface structures
	S.M. Mousavi Ourimi, Z. Mahdavi, M. Jiryaei [05670553]	Anticipation the ultimate bearing capacity of shallow foundations by using of modulus reduction curves
	R. Shahmoradi, F. Torkaman, A.R. Mahboubi Ardakani [05620580]	Numerical study of the seismic performance of improved retaining walls using geofoam materials and piles
	J. Jalili, M. Moosavi, F. Askari, A. Marghaiezhadeh [05960623]	Seismic performance of mat and grid foundations on a soft fine-grained soil
	J. Najafizadeh, D. Moazami, A. Hatami Rad [06260639]	Seismic parametric analysis of trapezoidal alluvial valleys under longitudinal waves in the time domain using the numerical method of spectral elements
	A. Esmailpour, M. Davoodi, A. Pourdeilami, R. Afzal Soltani [02290684]	Investigating the effect of soil saturation on the interaction of soil-foundation systems
	M. Ahmadnezhad, M. Naghipour, A.M. Askari [06660660]	Assessment of lateral load capacity of helical piles in sandy soil: A case study in Babolsar
Structural Earthquake Engineering	H. Asgaran, M.Gh. Vetr, H.R. Ebrahimizadeh, A. Khaleghi, F. Tayeri, M.H. Zolfagharzadeh [00090016]	Investigating the effect of hole distance from the edge of the beam flange in seismic behavior of drilled flange connection by damage indices
	A. Khoshkroodi, H. Parvini Sani, M. Aajami [00500019]	Prediction of deterioration components of steel beams using machine learning methods
	F. Pouran Manjily, M. Seyed Razzaghi, M. Yakhchalian [00540020]	Seismic source-dependent fragility curves for a historical masonry railway bridge
	A. Salehnia, B. Zare, M. Mirzaei Aliabadi [00770051]	Comparing the performance of steel shear walls with and without x-shaped stiffeners and concrete panels
	A.H. Ganji, M.R. Mansoori, M. Nekooei [00780055]	The effect of an additional viscous damper located at the foundation level on the seismic behavior of a dual system reinforced concrete and isolated building
	A. Kashfi, A. S.Moghadam [00910062]	Investigating the effects of aftershocks on the seismic response of steel and concrete structures
	P. Shirvani, F. Shirvani, A. Amini [00970068]	A collaborative computational framework for automated optimization, architectural planning, and construction of reinforced concrete frames through collaborative automation
	A. Salehnia [00770074]	Performance evaluation of three new shear wall systems under monotonic and cyclic loading
	H. Ghadimi Moghaddam, F. Emami, M.R. Mansoori [01020075]	Evaluation of the fragility of bridges with piers made of ultra high performance concrete under the effect of earthquakes in the far field and near field
	A. Zarif Moghadam Basefat, H. Pahlavan, M. Shamekhi Amiri, J. Shafaie [00720079]	Seismic performance assessment of tall rc special moment-resisting frame buildings equipped with buckling-restrained braces
	A. Rahebi, Y. Yasrebina [00860082]	Numerical study of reduced effects with nonlinear behavior under cyclic loading
	M. Kahrizi, A.H. Akhaveissy [01830130]	Simulation of seismic behavior and performance of a masonry building, using a three-dimensional micro-model and finite element analysis
	Sh. Khoramjahed, M.I. Khodakarami [01270160]	Investigation of the influence of various parameters on determining seismic vulnerability by using microtremor for a group of steel structures
	K. Rezaee [00210166]	Pushover analysis and weight optimization of industrial sheds and their lean-tos

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Wednesday, 8 May 2024, 13:30 – 18:00, Poster Hall		
Session	Authors	Subject
Structural Earthquake Engineering	M. Golpayegani, A. Mortezaei, M. Attarian [02330169]	The effect of specimen size on compressive, tensile and flexural strength of concretes containing polypropylene fibers
	H. Ebrahimi Khah, M. Mohammadkhani, R. Mohammadkhani, B. Babaloo [01910182]	Study on free vibration of a 2-D structural frame connected to the nonlinear springs using homotopy perturbation method
	H. Ebrahimi Khah, M. Mohammadkhani, R. Mohammadkhani, F. Akrami [01910183]	Study on free vibration of a 2-D structural frame connected to the nonlinear springs using modified homotopy perturbation method
	M. Ghasemi Jirdehi, S. Pourzeynali [02600194]	Multi-objective optimal design of eccentrically braced frames subjected to near-fault excitations
	R. Akbari, S.A. Hashempour, V. Lotfi [02950213]	Seismic analysis of morrow point arch dam based on damage mechanics
	A. Moslehi Tabar, D. De Domenico [03030220]	Model reduction for finite element analysis of base isolated bridges under seismic loads
	M. Yazdani, D. Farahani [00300230]	Investigating the cable loss effect of cable-stayed bridge to calculate the safety factor under seismic actions
	A. Ghaedrahmati, M. Zand [02190317]	Predicting the period of reinforced concrete structures using machine learning
	N. Siahpolo, A. Daghighaleh, N. Alizadeh Behbahani [03950339]	Performance evaluation of seismic behaviour of SMRF equipped with U-shaped damper subjected near-fault sequential scenarios e
	M. Heydari Sani, A. Zahedi Khameneh [04360351]	Investigating the performance of tuned mass damper in reinforced concrete frames with moderate ductility and different heights
	H. Zolfagharvishkai, R. Karami Mohammadi [01150366]	Semi-active seismic control of structures equipped with mr dampers based on uniform distribution of deformation by using the virtual hybrid simulation
	Z. Sadat Riazi Rad [00600423]	The effect of shear wave velocity caused by earthquake on the strength of structural concrete
	S.H. Mostafazadeh, M.Gh. Vetr, A. Rasekhi Sahnneh [05190479]	An attitude towards a laboratory approach for the production of dry-packed polypropylene (PP) fiber concrete
	M.A. Asghari, M. Mohammadi [05030546]	Identifying parameters of a nonlinear sdof using fuzzy adaptive kalman filter with unknown measurement noise
	A. Daneshvar Mmoghadam, M.R. Shiravand, M.J. Hamidia [05740551]	A study on the application of machine learning algorithms and artificial intelligence in predicting the seismic behavior of reinforced concrete shear walls
	R. Alizadeh, M. Banazadeh [05830577]	Machine learning-based prediction of seismic response of concrete structures with viscous damper
	H. Dadashi, M. Mohammadi [05880587]	Fragility curves of moment resisting frame; influence of structural nonlinearity modeling
	F. Shadan, A. Lesaei [05940597]	A review of sensor placement considering sensitivity-based model updating approaches
	M. Ariabod [06000607]	Investigation of new non-destructive techniques of structural health monitoring based on seismic data
	A. Khodaparast, K. Samimi [02840464]	Feasibility of utilizing of self-compacting earth concrete in terms of compressive strength and ductility
	A. Alvandkoohy, J. Shafaei, A. Golabpour [06350671]	Shear strength prediction of exterior RC structures joints by using of regression models
	M. Rahmani-Qeranqayeh, M. Bastami, A. Fallah, V. Majed [07260686]	An innovative sampling method for predicting building damage after earthquakes
	S.R. Samaei, M. Ghodsi Hassanabad [02940214]	The role of artificial intelligence in earthquake engineering: prevention, response and improvement of structures

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Thursday, 9 May 2024, 08:00 – 12:30, Poster Hall		
Session	Authors	Subject
Seismology	S.N Hashemi [03240232]	Spatio-temporal pattern of seismicity around the kazerun fault system (KFS), Southern Iran
	M. Keshavarz Bakhshaiesh, M. Ajali, E. Keshavarz Bakhshaiesh [02430261]	Evaluation and determination of geometrical characteristics of north Zanzan fault using two-dimensional electrical tomography
	S. Motaghed, N. Eftekhari, L. Emadali, H. Sayyadpour [03350250]	Stochastic synthetic seismic catalog of Ahvaz city
	A. Anvari, E.Kishani Farahani, F. Farhani [03630294]	Evaluation and thermal analysis of magnetometer payload in an earthquake forecasting satellite
	A. Shamkahrizi, M. Sadrykia [02780312]	Investigating the earth surface displacement caused by 2023 Turkey earthquake
	R. Sadat Shiryazdi, Y. Radan, M. Mahood [05130459]	Investigating the effect of Moor"s neighborhood in improving the prediction results of earthquakes using PI method
	S. Andayeshgar, A. Ghods, E. Shabanian, J. Braunmiller [01210478]	Seismicity of NW Iran and east Turkey using relocation of seismic clusters
	F. Changi, H. Hajjalibeigi, S. Omni [05460494]	Determining the maximum seismic power of Mosha-Fasham fault, based on seismological investigations
	Z. Rezaei, A.H. Sadeghpour [05660528]	Investigation and analysis of pre-indicators to predict the occurrence of earthquakes
	M. Torkamani, M. Foroutan [05790562]	Paleoearthquakes along the low slip rate intracontinental faults: a special look on central Portugal
	M. Kheyri Moloumeh, A. Ghods, E. Shabanian [04450567]	Approach on seismotectonic to zonation and determining potential seismic sources in Makran
	S. Ahmadzadeh, Gh. Javan Doloei, M. Assar Enayati, Kh. Hessami [00060594]	Analyses of focal mechanism solutions of the herat triplet earthquake of october 7th, 2023 and its large aftershocks
	L. Mahshadnia, S.A. Alavi, M.R. Ghassemi, Z. Mousavi [04840601]	Measurement of interseismic instabilities by insar time-series in shahdad fault intersection (Evidence for the earthquake precursors)
	A. Hashemi [05310602]	Estimation of elastic thickness in the northwest of the indian ocean through analysis of gravity and topographic signals
	A. Khalil, Gh. Javan Doloei [00060608]	Seismicity parameters of the August 17, 1999 Izmit earthquake in northern Turkey and the Aebruary 6, 2023 earthquake in southern Turkey-northern Syria
	Sh. Pourbeyranvand, H. Taheri Nia [05860621]	Investigating geomagnetic data as a precursor of earthquakes on February 6, 2023, Turkey (Mw =7.8& .5)
Sh. Sahebsara, M. Mahood [06360646]	An overview of the concepts, methods and developments of the earthquake early warning system	
Structural Earthquake Engineering	S.M. Mehdi Asadzadeh, S.F. Mansouri [00800043]	Comparison of the performance of changing the geometric parameter of the accordion damper under hysteresis analysis using the atc 24 recipe
	A. Amini, A. Aziminejad, A. S.Moghadam [00370056]	Seismic design optimization through multi-fidelity modeling
	I. Farjamifar, M.H. Ghadiri Rad [01420098]	Reducing the destructive effects of wind force in high-rise buildings by inverse airfoil
	M. Rostami, F. Gorji Sinaki, A. S.Moghadam, M. Grigorian [01440101]	Evaluation axial loading and seismic behavior of tower cranes under near field earthquakes
	A. Ghadamian, M. Ghadamian, H. Ahmadi [01510110]	The effect of tmd damper to mitigate progressive collapse in steel structures
	A. Farhangian [02590353]	Investigating the effects of vibration isolators on the behavior of steel structures

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Thursday, 9 May 2024, 08:00 – 12:30, Poster Hall		
Session	Authors	Subject
Structural Earthquake Engineering	Gh. Sanei, A. S.Moghadam [00760173]	The study of seismic behavior of steel braced frame with rocking motion along with a new type of column to foundation connection
	A. Lork, S. Abachi, A. Nikkhoo [02120222]	The study of a ten-story steel structure with the addition of a rotational friction damper and the investigation of the results of base shear and the interaction between the soil and the structure
	M. Askari [03120225]	Investigating the seismic performance of connecting beams in diagrid structures using push analysis
	F. Mahmoudi, K. Alishah [02690228]	Numerical study of steel moment resisting frames with replaceable easy going steel link
	D. Saberi, E.Rajabi [01810241]	The optimal percentage of shape memory alloy in low-rise steel structures equipped with buckling restrained brace (BRB) under successive earthquakes
	B. Ramezani, F. Homaei [02320252]	An overview of the use of new materials in improving the performance of bridges
	Y. Golestani, E. Tafakori, K. Nasserasadi, J. Ahmadi [00670277]	Damage detection in rigid joints of linked columns frame system using modified modal curvature method
	M.P. Toopchinezhad, M. Toopchinezhad, H. Toopchinezhad [03510286]	Application of deep reinforcement learning in semi-active control of frame structures equipped with multiple damper devices
	A. Karamodin, M. Ghalehnovi, M. Sadeghi Sabzevari [03550298]	A study of the nonlinear seismic behavior of structures with mid-story isolation
	S.A. Hosseini [03770304]	Development and analysis of a new buckling-restrained brace composed of shape memory alloy
	O. Zarrin, M. Ramezanshirazi [03960318]	A review of performance evaluation of friction dampers for vibration control in steel structures
	M. Mirazizi, J. Mokari Rahmdel, E. Shafei [01900321]	Using the extension column with energy absorbing systems yielding to the reinforced concrete flexural frame in order to improve their seismic performance
	N. Shafaei, S.M. Seyedpoor, S. Fallahian [03860325]	Evaluating the impact of different dynamic responses in order to detect damage in structures using an optimization method
	M. Yazdani, A.A. Tasnimi [03920340]	Investigating the cyclic behavior of the new self-centering buckling restrained brace
	N. Lotfabadi Bidgoli [05520504]	Controlling the response of asymmetric structures in plan using viscous dampers
	B. Shomali, M. Salehi, N. Lotfi, H. Haghi [05550505]	Seismic performance evaluation of structures equipped with buckling restrained brace and liquid dampers using nonlinear dynamic time history analysis
	Hamid Bayesteh, Mohammad Jafari, R. Rasti Ardakani [05370515]	Comparison of seismic performance of pile and deck piers with frictional and viscous dampers
	A. Kiyani Deh Kian, K. Dalvand, H. Toopchi Nezhad [05700534]	Finite element simulation of monotonic load-displacement behavior of annular unbonded elastomeric isolators
	M.R. Kabiri, S.R. Mirghaderi, S. Ebrahimi [05540552]	Behavioral comparison of special concentric braces with friction-sliding damper braces
	B. Puzeshi, A. Pourdailami, B. Karami [05800564]	The effect of the swimming pool on the roof of the structure in reducing seismic waves
S.A. Hoseini, A. Nikkhoo [05910592]	Investigating the damage patterns in special reinforced concrete moment resisting frames via earthquake by the identification of the structure's frequencies	
A. Behizadi, Gh.R Nouri [02640467]	A review on the seismic performance of variable friction pendulum bearings	