

SEE is an International scientific event first organized in 1991 (one year after destructive Manjil Earthquake of 1990)

The SEE conferences are being organized by the IIES



History of SEE Conferences

SEE1	1991	193 papers from 30 countries
SEE2	1995	199 papers from 35 countries
SEE3	1999	197 papers from 37 countries
SEE4	2003	241 papers from 34 countries
SEE5	2007	550 papers from 45 countries
SEE6	2011	580 papers from 30 countries
SEE7	2015	616 papers from 42 countries
And Now		
SEE8	2019	752 papers from 13 countries





SEE

8

8th International
Conference on
Seismology &
Earthquake
Engineering

هشتمین کنفرانس
بین المللی زلزله شناسی
و مهندسی زلزله
تهرآن- ۲۰۱۰ تا ۲۰۱۱

11-13 Nov. 2010, Tehran, Iran

SEE2-1995











SEE

هشتمین کنفرانس
بین‌المللی زلزله‌شناسی
و مهندسی زلزله
نوامبر ۱۱-۱۳ ۱۳۹۸

8th International
Conference on
Seismology &
Earthquake
Engineering

11-13 Nov. 2019, Tehran, Iran

SEE7-2015

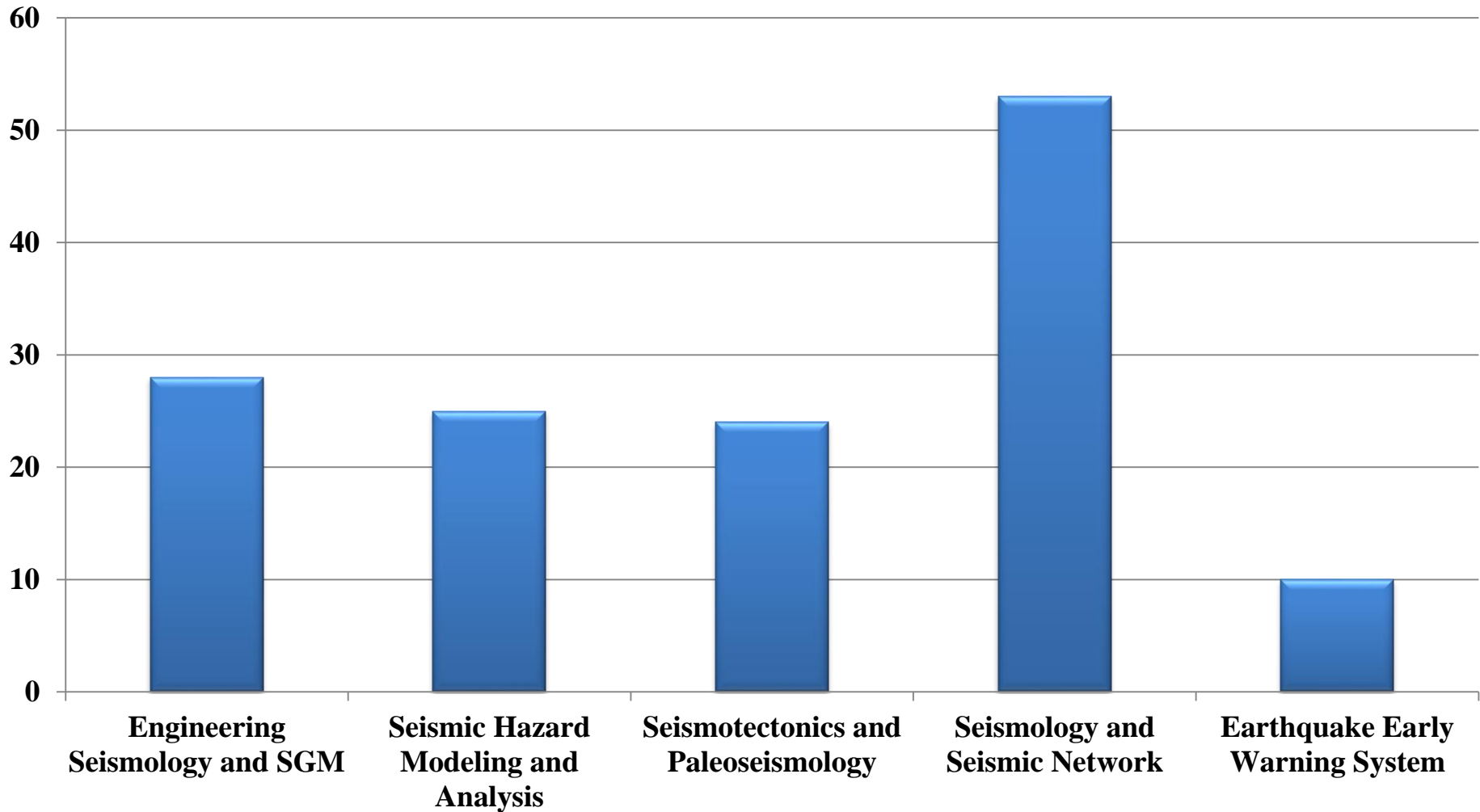


More than 750 received papers from 13 countries, 570 papers are accepted for review process

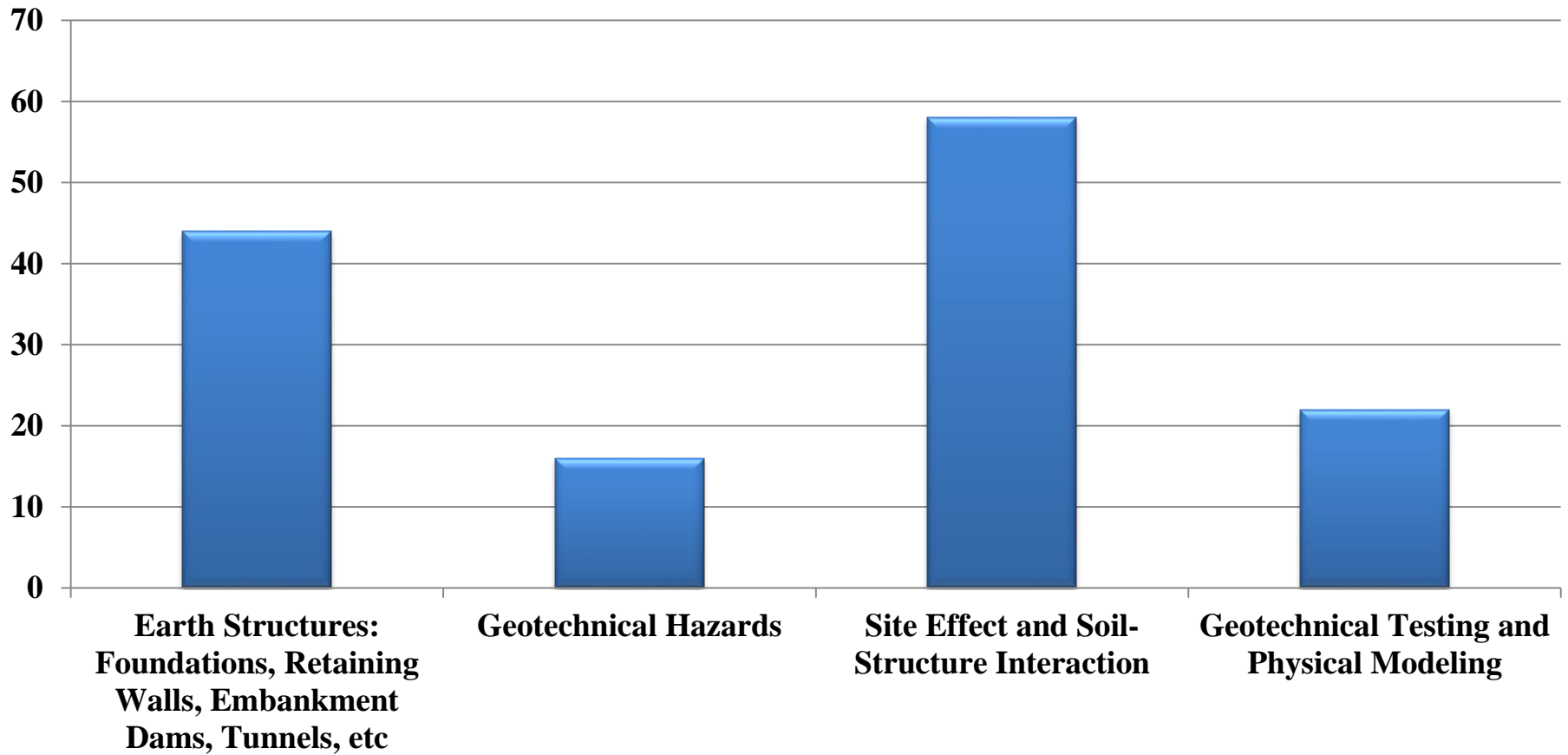
Structural Engineering	299 papers
Seismology	131 papers
Geotechnical Engineering	111 papers
Risk Management	29 papers

Accepted papers for oral presentation	202 papers
Accepted papers for poster presentation	368 papers

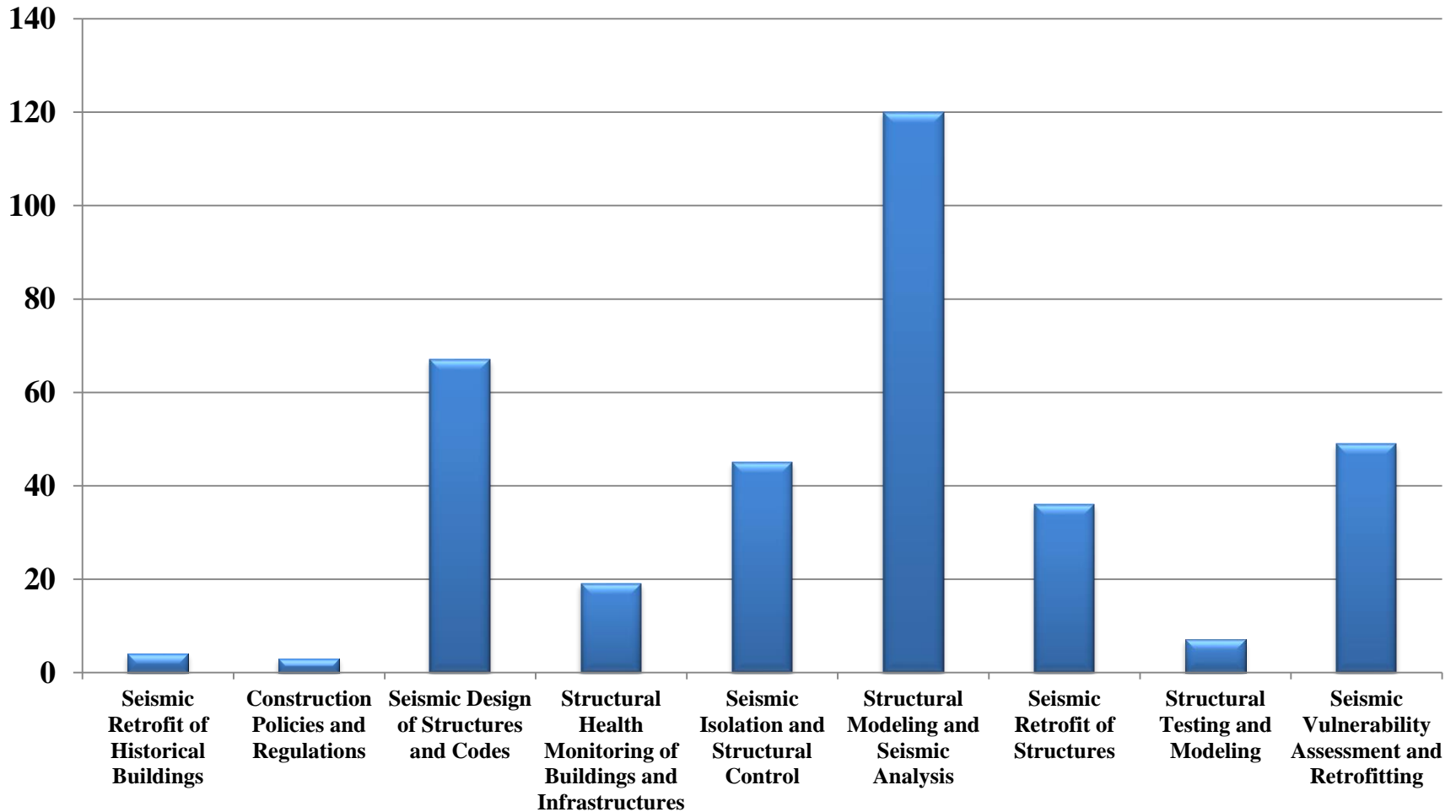
Seismology



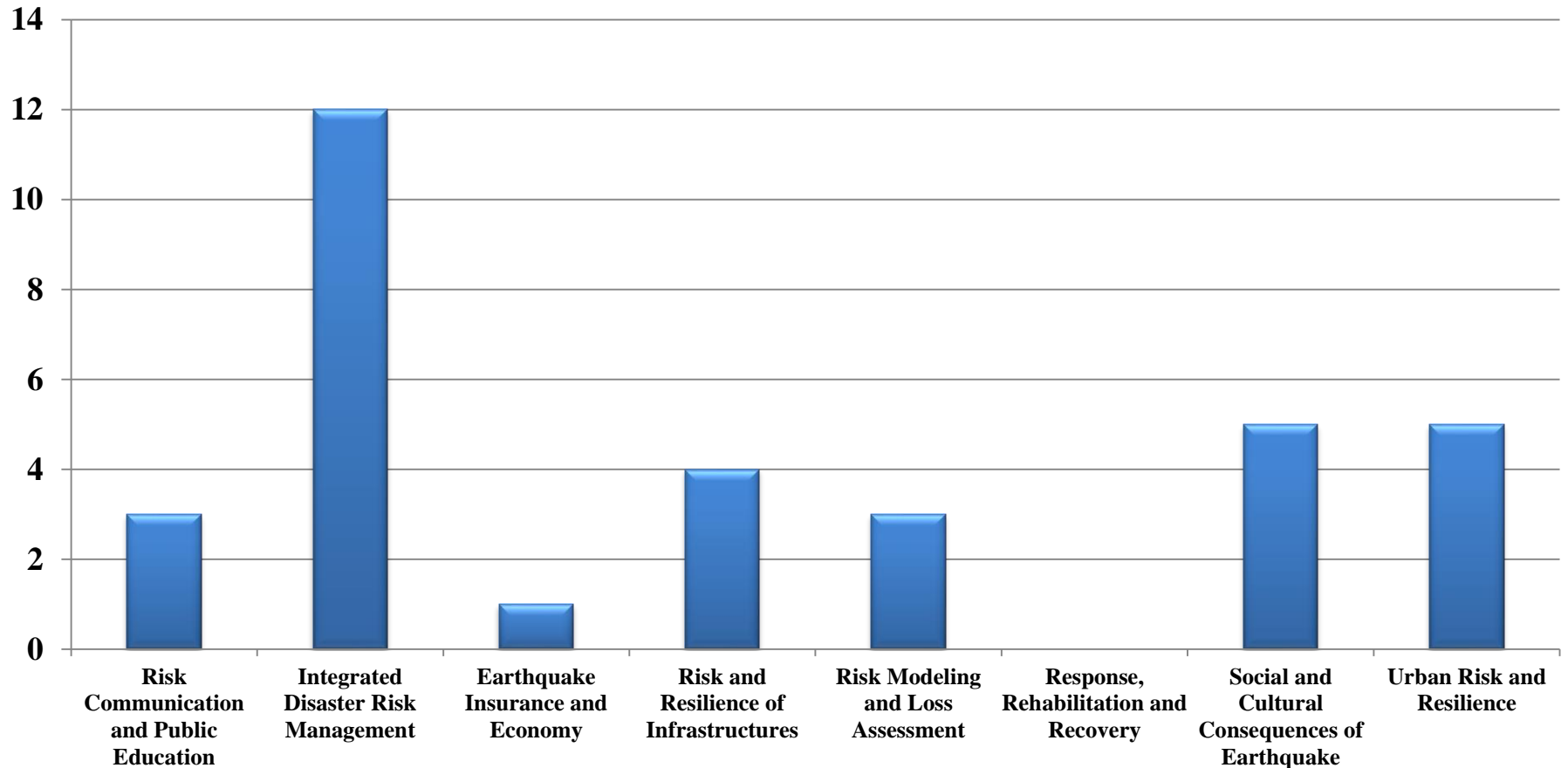
Geotechnical Earthquake Engineering



Structural Earthquake Engineering



Earthquake Risk Management



"Science-Based Sustainable Development in Earthquake Prone Countries"

First Day: Monday, 11 November 2019

08:00 - 8:30					
Registration					
08:30 - 10:00 (Main Hall)					
8:30 - 8:35	Quran Recitation and National Anthem				
8:35 - 9:05	Chairman and Co-Chairmen Speech				
9:05 - 9:35	Invited Official Guests				
9:35 - 10:00	M.T. Ahmadi Recent seismic deliberations devised in National Building Regulations of Iran				
Tea Break (10:00 - 10:30)					
10:30 - 12:00 (Main Hall)					
Keynote lecturers					
Chairmen: A. Kappos, M. Grigorian, D. Schorlemmer, F. Jalayer, A.S. Moghadam					
A. J. Kappos	Seismic Performance of Retrofitted Bridges				
M. Grigorian	A Brief Presentation on EQ. Eng.: Lessons from the Past, View to the Future				
D. Schorlemmer	Less is More				
Lunch Break (12:00 - 14:00)					
14:00 - 15:30					
Tabatabaie Hall	Bahaie Hall	Kharazmi Hall	Khayam Hall	Shahriar Hall	Etesami Hall
Seismic Design of Structures and Codes-1	Site Effect and Soil-Structure Interaction-1	Special Session	Structural Modeling and Seismic Analysis-1	Seismology-1	Risk Modeling and Loss Assessment
		Lessons Learnt and Challenges of Reconstruction, Repair and Retrofit of Buildings after Sarpol-e Zahab 2017 Earthquake			
Tea Break (15:30 - 16:00)					
16:00 - 17:30					
Seismic Isolation and Structural Control-1	Site Effect and Soil-Structure Interaction-2	Special Session	Seismic Vulnerability Assessment-1	Seismology-2	Risk Communication, Preparedness and Emergency Response
		Lessons Learnt and Challenges of Reconstruction, Repair and Retrofit of Buildings after Sarpol-e Zahab 2017 Earthquake			

9:35 - 10:00	M.T. Ahmadi Recent seismic deliberations devised in National Building Regulations of Iran
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Keynote lecturers	
Chairmen: A. Kappos, M. Grigorian, D. Schorlemmer, K. Beyer, A.S. Moghadam	
A. J. Kappos	Seismic Performance of Retrofitted Bridges
M. Grigorian	A Brief Presentation on EQ. Eng.: Lessons from the Past, View to the Future
D. Schorlemmer	Less is More



Keynote Lecture	Z.H. Shomali	Hydrocarbon Exploration Using Passive Seismic Methods; From Tomography to Imaging
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Kharazmi Hall	Special Session
	Lessons Learnt and Challenges of Reconstruction, Repair and Retrofit of Buildings after Sarpol-e Zahab 2017 Earthquake Chairmen: B. Hosseini Hashemi, M. Khanmohammadi, M. Zeinoddini, A. Kalantari

5 Keynote Speakers, 5 Special Session, 12 Oral paper presentation, Poster Session (184 Posters), Advanced Lab Visit, Special Event



Second Day: Tuesday, 12 November 2019

08:30 - 10:00					
Tabatabaie Hall	Bahaie Hall	Kharazmi Hall	Khayam Hall	Shahriar Hall	Etesami Hall
Keynote Lectures	Geotechnical Hazards	Seismic Vulnerability Assessment-2	Seismic Retrofit of Structures	Engineering Seismology-1	Seismology-3
Tea Break (10:00 - 10:30)					
10:30 - 12:00					
Special Session	Special Session				Special Session
Forensic Earthquake Engineering	Geotechnical and Geological Aspects of 12th November 2017 Sarpol-e Zahab Earthquake: Lessons Learned and Challenges	Earthquake Hazard	Structural Modeling and Seismic Analysis-2	Seismotectonic	Earthquake Risk Management Master Plan; Case Study: Karaj City
Lunch Break (12:30 - 14:00)					
14:00 - 15:30					
Keynote Lectures	Earth Structures	Seismic Design of Structures and Codes-2	Exhibition	Engineering Seismology-2	Special Session
Tea Break (15:45 - 16:15)					
16:00 - 17:30					
Special Session				Crust and Upper Mantle Structure	Special Session
Loss, Records, Nonlinear Models and Uncertainty in Performance-Based Earthquake Engineering Applications					Needs Assessment after Disasters and Early Recovery Planning



Tabatabaie Hall
Keynote Lecture
F. Jalayer
 Seismic Safety-Checking Employing Non-linear Dynamic Analysis with Un-Scaled Ground Motion Records
 Chairmen: H. Ebrahimiyan, A. Kalantari, A.A. Taheri Behbahani



Keynote Lecture
M. Zare
 Future Challenges to Develop the Seismic Hazard Zoning Maps in Iran and Middle East



Special Session
Keynote Lecture
S. Eshghi
 Forensic Earthquake Engineering; An Opportunity for a Paradigm Shift

Bahate Hall
Special Session
 Geotechnical and Geological Aspects of 12th November 2017 Sarpol-e Zahab Earthquake: Lessons Learned and Challenges
 Chairmen: A. Ghalandarzadeh, E. Haghshenas, S.M. Moosavi, I. Ashayeri

Etesami Hall
Special Session (Panel discussion)
 Earthquake Risk Management Master Plan; Case Study: Karaj City



Tabatabaie Hall
Keynote lecturers
P. Bazzurro
 Potential sources of bias in earthquake risk assessment models for portfolios of structures
D. Vamvatsikos
 Recent advances in seismic design approaches
 Chairmen: F. Jalayer, M. Grigorian, G. MacRea, A. Kalantari

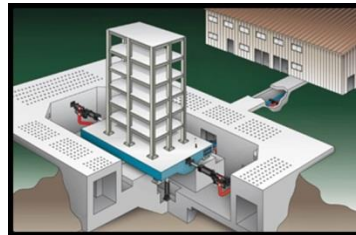
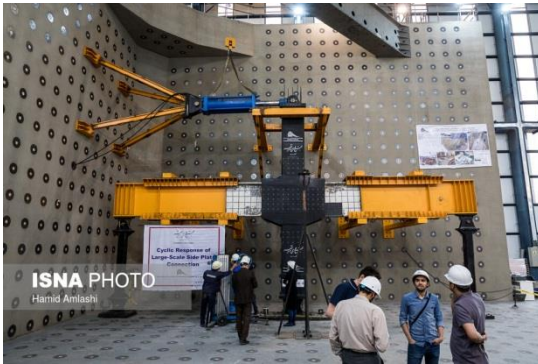
Etesami Hall
Special Session (By Invitation Only)
 Needs Assessment after Disasters and Early Recovery Planning

Tabatabaie Hall	Special Session	
	Loss, Records, Nonlinear Models and Uncertainty in Performance-Based Earthquake Engineering Applications Chairmen: D. Vamvatsikos, P. Bazzurro, M. Kohrangi, A. Kalantari	
	F. Jalayer, H. Ebrahimiyan	Implementing Incremental Dynamic Analysis for Measuring Entropy-Based Sufficiency of an Intensity Measure
	M. Mahsul, Sh. Vaseghi, M.A. Ghannad, F. Zareian	Probabilistic SDOF Models for Performance Assessment of Buildings
	A. Azarbakht, F. Naghdibak	Site-Specific Response Analysis Versus Implementing the Mean Shear Wave Velocity within PSHA
	G. MacRea	Performance Based Design Practice in New Zealand Risk Targeted Design Map for Iran, Achievements and Challenges
P. Bazzurro, D. Vamvatsikos, M. Kohrangi	An Urban Seismic Risk and Resilience Model for Isfahan Decision Support, Resilience and Sustainable Reconstruction of Historical City Cores Under Seismic Threat: The Hyperion Approach	
P. Bazzurro, D. Vamvatsikos, M. Kohrangi		

Advanced Lab Visit

Tuesday 12 November 2019 at 14:00 (Please register)

Visit to Advanced Earthquake Engineering Laboratory at Sohanak



Tuesday 12 November 2019 18:00-22:00 (By invitation)



**Iran Society of Consulting
Engineers**



**Iran Association of Structural
Engineers**

انجمن ایرانی مهندسان محاسب ساختمان
سال تأسیس ۱۳۴۸ شماره ثبت ۱۱۶۴

**Reducing the seismic vulnerability of common buildings in Tehran by
Relative seismic retrofitting approach**

2 Keynote Speakers, 6 Special Session, 10 Oral paper presentation, Special Event



Third Day: Wednesday, 13 November 2019

08:30 - 10:00					
Tabatabaie Hall	Bahaie Hall	Kharazmi Hall	Khayam Hall	Shahriar Hall	Etesami Hall
Keynote Lecture	Geotechnical Testing and Physical Modeling-1	Seismic Vulnerability Assessment-3	Seismic Isolation and Structural Control-2	Special Session	Risk and Resilience Management
K. Beyer				Geodynamic of the Makran Subduction Zone	
Tea Break (10:00 - 10:30)					
10:30 - 12:00					
Keynote Lecture	Geotechnical Testing and Physical Modeling-2	Structural Health Monitoring	Structural Testing and Modeling	Special Session	Special Session
G. MacRea				Hazard of the Makran Subduction Zone	From Manjil (1990) to Sarepol-e Zahab (2017) Iran Earthquake; A Review on Challenges on DRM in Iran
Lunch Break (12:30 - 14:00)					
14:00 - 15:30					
Special Session	Special Session	Seismic Design of Structures and Codes-3	Structural Modeling and Seismic Analysis-3	Earthquake Early Warning	Special Session
Resilient Structural Systems	Earthquake Engineering Role in Architectural Design of Historical Buildings				Guideline for Planning and Design of Resilience Safe Hospitals
Tea Break (15:30 - 16:00)					
16:00 - 18:00					
Closing Ceremony (Main Hall)					



Keynote Lecture
K. Beyer
Seismic Assessment of Stone Masonary Buildings—from Shake Tables Tests on Entire Buildings to Detailed Micro-Models of Isolated elements
Chairmen: M. Ziyaeifar, G. MacRea, A.A. Taheri Behbahani

Special Session	
Geodynamic of the Makran Subduction Zone	
Chairmen: M. Tatar, F. Tavakoli, Kh. Motaghi	
F. Tavakoli	Study of the Makran Subduction Zone Using GPS Measurements
H.R. Momeni, Kh. Motaghi, M. Rahmani, A.R. Ghods, F. Sobuti	Geometry of Oceanic Slab Beneath the Western Makran Subduction Zone
A.R. Ghods, M. Akbarzadeh Aghdam, F. Sobouti, Kh. Motaghi	Investigation of Seismotectonics of Makran Region Using Local Network Data
S. Rahimzadeh, A. Moradi, A. Kaviani	Seismic Anisotropy in Western Makran Subduction Zone
R. Mokhtarzadeh, F. Sobouti, K. Priestley, A.R. Ghods, Kh. Motaghi	Imaging Structure of the Western Makran Subduction Zone by Receiver Functions Analysis
R. Zeynaddini Meymand, S.Kh. Motaghi	High Resolution 3d Velocity Model for the Makran Subduction Zone



Keynote Lecture
G. MacRea
Recovery after the Canterbury Earthquakes
Chairmen: K. Beyer, B. Hosseini Hashemi, A.S. Moghadam

Special Session	
Hazard of the Makran Subduction Zone	
Chairmen: M. Mokhtari, H. Zafarani, A. Kalantari	
M. Mokhtari	Application of Active Seismic Data in Analysis of Makran Faults
H. Ghadimi, A. Khodavardian, H. Zafarani	A Comprehensive Deformation Model of Makran Region, for Seismic Hazard Studies
A. Kalantari	Tsunami Design Consideration for Buildings
M.R. Soghrat, H. Zafarani	Selection of Ground Motion Prediction Equations for Seismic Hazard Analyses in Makran Region, Iran
M. Mahood, H. Zafarani, N. Akbarzadeh	Predicted Ground Motions for Interface Earthquakes in the Makran Subduction Zone Based on a Stochastic Finite-Fault Model
L. Etemad Saeed, H. Zafarani	PTHA, a powerful to Treat Uncertainties in Tsunami Modeling
A.R. Zarrineghal, H. Zafarani, M. Rahimian	The Use of Improved Risk Targeting Approach in Seismic Hazard Assessment of Makran Region

Special Session (Panel discussion)
From Manjil (1990) to Sarepol-e Zahab (2017) Iran Earthquake; a Review on Challenges on DRM in Iran

Special Session
Resilient Structural Systems
Chairmen: M. Grigorian, G. MacRea, M. Akgogan, A. Vasseghi, N. Rahgozar

Special Session
Earthquake Engineering Role in Architectural Design of Historical Buildings
Chairmen: A.A. Monesan, M. Hozjati, M.G. Vetr, F. Daliri, H. Azizi

Special Session (Panel Discussion)
Guideline for Planning and Design of Resilience Safe Hospitals

Wednesday 13 November 2019 16:00-18:00

IIIES Earthquake Reconnaissance Team Report: M5.9 Torkamanchay (Sarab) Earthquake on November 07, 2019 and its Aftershocks

Torkamanchay, November 07, 2019



Kermanshah, November 12, 2017



Conference Organizer

- International Institute of Earthquake Engineering and Seismology (IIIES)

Conference Co-Organizers

- Ministry of Science, Research and Technology
- Tehran Municipality

With the support of United Nations Educational, Scientific and Cultural Organization (UNESCO)



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- ❖ Behsaz Andishan Tehran
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