

## 特定研究集会（課題番号：28C-02）

集会名：第7回総合防災に関する国際会議

研究代表者：横松宗太

開催日：平成 28 年 10 月 1 日-3 日

開催場所：Abbasi Hotel, Isfahan, Iran

参加者数：約 290 名（所外 約 280 名，所内 13 名）

- ・大学院生の参加状況：3 名（博士 3 名）（内数）
- ・大学院生の参加形態 [ 研究発表と議論への参加 ]

### 研究及び教育への波及効果について

本会議では「災害と開発：リスクを理解した社会に向けて(Disaster and Development: Towards a Risk Aware Society)」をテーマとし、災害／防災を理解しながら発展する社会の在り方について多角的に議論した。世界の一流の研究者達が、概念的・理論的に、または現場の調査に基づいて、開発／発展の中に防災がどのように組み込まれるべきか、またその効果はどのように評価されるのかを討議したり、情報交換や比較検討をしたりしたことは、総合防災の分野の発展にとって極めて有意義であったと考える。また、恒例の若手研究者セッションでは、博士課程学生たちが口頭発表を行い、シニアの研究者から熱心なコメントや指導を受けた。優秀な発表への表彰も行われ、学生達は今後の研究活動に向けてさらに意欲を高めていた。

### 研究集会報告

#### (1)目的

国際総合防災学会は 2010 年に岡田憲夫教授（当時、本所の教授）を会長、多々納裕一教授を副会長として設立し、2016 年の今回は第 7 回の開催となる。毎回、世界 20 カ国から 200 人の研究者や実務者、博士課程学生らが集い、災害のリスクガバナンスの構築のための学際的・分野横断的な議論を行っている。世界に総合防災のネットワークを拡張することを目的として、開催地を毎回移して、現地から多くの新しい参加者を得ている。今回は初めて中東で開催されるため、中東の研究者や実務者による発表や討論を通じて、防災対策のグローバル性とローカル性に関する新たな議論の展開が期待される。恒例の若手研究者セッションには、毎年、防災研から大学院学生が参加して、国際的な研究者を目指す足がかりとして貴重な機会となっている。

会議終了後には、議論の成果をとりまとめて電子プロシーディングスとして本学会の Web サイトにて公開する。さらに本学会のオフィシャルな国際学術雑誌に特集号を企画し、世界に発信する。また、同学会には国際応用システム研究所(IIASA)など、GADRI に参画している機関も多く、それらとの連携が強化されることも期待される。

会議では、例年通りの「総合的災害リスクマネジメント」に関わる多様な研究発表に加えて、今回の特別テーマ「災害と開発：リスクを理解した社会に向けて(Disaster and Development: Towards a Risk Aware Society)」について、集中的な討議を行うことを目的とする。

#### (2)成果まとめ

今回は 290 人を超える参加があり、そのうち 77 人がイラン国外からの参加であった。「災害と開発：リスクを理解した社会に向けて(Disaster and Development: Towards a Risk Aware Society)」をテーマとし、災害／防災を理解しながら発展する社会の在り方について多角的に議論した。

オープニングでは国際応用システム研究所(IIASA)の所長の Kabat 教授より「システム科学の便益：世界のエネルギーと水資源の安全保障(Benefit of System Science, The Case of Global Energy & Water Security)」と題した基調講演が催された。その後、Haresh Shah 氏と Alex Chen 氏の講演「全ての人のための災害保険(Disaster Risk Insurance for Mass)」に続いて、Zargarpour 博士、

Hemmati 博士, Jamalnejad 博士, Nachtnabel 教授, Jafari 教授, Ashtiany 教授, 多々納教授 (京大防災研) によるパネルディスカッションが行われた。

二日目には岡田憲夫・京大名誉教授による基調講演「IDRiM イニシアティブにおいてマイルストーンを創る：私たちはどうやって持続可能な実践的適用科学へ向かえるのか(Creating a Milestone in IDRiM Initiatives: How Can We Go Further to Substantiate Implementation Science?)」が行われ、その後 GADRI 会長の Collins 教授, 多々納教授 (京大防災研), 大西准教授 (京大防災研) が「実践的適用科学の探究:IDRiM と GADRI の協働 (Exploring Implementation Science: How can IDRiM work with GADRI?)」とのテーマでプレゼンテーションを行い、GADRI の取り組みを紹介し、協働の可能性について議論した。

また 8 件の一般セッションと 15 件の特別セッションが催された。それらのテーマは保険や自然災害カタストロフ・モデリング, Natech リスク評価, 公衆衛生, 経済的インパクト分析, レジリエンス都市, 人道的支援など多岐にわたり、各セッションで活発な議論が行われた。博士課程学生を対象とした若手研究者セッションも行われた。これらの成果を素に IDRiM Journal に特集号が企画されている。

2010 年の学会創設以来、毎年開催してきた本国際会議は今回で 7 回目となる。これまでの取り組みによって、総合防災 (Integrated Disaster Risk Management, IDRiM) の重要性やその政策論的意義が国際的に認知されてきた。今回は地元イランから多くの参加者があり、国際地震工学研究所 (International Institute of Earthquake Engineering and Seismology (IIEES)) をはじめとする地元機関との関係も築かれ、ネットワークの拡大においても意義がある会議となった。

### (3) プログラム

プログラムは後述する。

### (4) 研究成果の公表

<http://idrimjournal.com/>

<http://idrim.org/>

## IDRiM 2016 Conference Program

### Saturday, 1 October 2016

Time	Abbasi Hall			
08:30-11:00	<b>Opening Ceremony and Keynote Lectures</b> <b>Opening:</b> Prof. Mohsen Ashtiany (Conf. Chairman, IEEA Pres.) and Prof. Norio Okada (IDRiM President); H.E. Dr. Zargarpour (Isfahan Governor); H.E. Mr. Mahmoodi (Acting Minister of Energy), H.E. Dr. Hemmati (President of Central Insurance Org.); Ms. Laroche (Director of UNESCO). <b>Keynote:</b> Prof. Kabat (IIASA-DG): Benefit of System Science, The Case of Global Energy & Water Security			
11:30-13:00	<b>High Level Panel on Socio-Economic Needs for DRR</b> <b>Keynote:</b> Haresh Shah, Alex Chen: Disaster Risk Insurance for Mass <b>Panelists:</b> Dr. Zargarpour, Dr. Hemmati, Dr. Jamalnejad, Prof. Nachtnabel, Prof. Jafari, Prof Ashtiany, Prof Tatano			
	<b>Abbasi Hall</b>	<b>Aeineh Hall</b>	<b>Zarin Hall</b>	<b>Sima Hall</b>
14:00-15:30	<b>SS01</b> Building Code Implementation: Insurance and Economy (MRUD-IEEA) Mazaherian, Ashtiany	<b>SS02</b> Water (MOE-IIASA) Kabat, Nachtnabel Langan, Taheri	<b>SS07</b> Public Health Approach to IDRiM (MOH-UNFPA-TU) Ardalan, Ahmadzadeh	<b>SS11</b> Economic Analyses of Disaster Risk Reduction Muneta Yokomatsu
16:00-17:30			<b>SS08</b> -Human Coordination (IIASA) Mochizuki	<b>GS-1</b> Risk Communication

### Sunday, 2 October 2016

#### Plenary: Aeineh Hall (08:30-09:30)

**Keynote:** Norio Okada: Creating a Milestone in IDRiM Initiatives: How Can We Go Further to Substantiate Implementation Science?

**Panel Discussion:** Tatano, Collins, Onishi: Exploring Implementation Science: How can IDRiM work with GADRI?

Time	Aeineh Hall	Zarin Hall	Sima Hall	Simin Hall
09:30-11:00	<b>SS03</b> Risk and INSURANCE IIEES, ICI, IIS, A Ashtiany, Chen	<b>SS04</b> Experience Sharing around the French Practical Approach of Seismic Security Engr. and Risk Management (AFPS-IEEA) Amir-Mazaheri Moghadam, Hosseini	<b>SS09</b> Integrating DRR into EIA/SEA (UNEP-UNDP) Thummarukudy	<b>GS-2</b> Disaster Resp., Recovery and Reconstruction
11:30-13:00	----- 1. Iran Insurance Strategy 2. Insurance for Masses 3. GEM Risk Modeling 4. Engineering Insurance		<b>SS10:</b> Ecosystem-based Approaches to DRR (UNEP ) Thummarukudy	<b>GS-3</b> Lessons Learned
14:00-15:30	4. Insurance Tool 5. Panel Discussion		<b>GS-4</b> Flood Risk Management	<b>Young Scientist Session</b> (IDRiM-IEEA) Yokomatsu, Izadkhah
16:00-17:30			<b>SS12</b> Sense of Community (IIT-DPRI)_Parthasarathy	<b>GS-5</b> Water Risk
17:45-18:45	<b>Aeineh Hall: IDRiM General Assembly</b>			

### Monday, 3 October 2016

Time	Aeineh Hall	Zarin Hall	Sima Hall
08:30-10:00	<b>SS05</b> GRID Network Resilience (IIASA-MOE-IIEES) Komendantova, Ashtiany	<b>GS-6</b> Climate Change	<b>SS14</b> Engineering Practice in Iran: Issues and Challenges (IIEES-IEEA-IEO-ITU) Moghaddam, Behnamfar
10:30-12:30		<b>SS13</b> Resilient City and Infrastructure (KIT-IIEES); Khazai, Amini	
14:00-15:30	<b>SS06</b> -Na-Tech (DPRI-JRC) Cruz and Krausmann	<b>GS-7</b> Economy and Business Continuity	<b>GS-8</b> Earthquake Engr. and DRR
16:00-17:30 Aeineh Hall	<b>Wrap-up Panel:</b> Global Disaster Risks: From Volcanic Eruptions to Global Disruption; Chair: H. Tatano <b>Panelists:</b> Okada, Ashtiany, Cruz, Nachtnabel, Pavel, Shah, Misra, Petursdottir, Krausmann, Ono <b>Closing Ceremony:</b> IDRiM and YSS AWARDS; Closing by Prof. Ashtiany and H.E. Najjar (DRM)		

**Tea and Coffee Breaks:** Morning: 10:00 to 10:30AM; Lunch: 12:30-14:00PM; Afternoon: 15:30 to 16:00PM

## Saturday 1<sup>st</sup> October 2016

### Opening Ceremony, Keynote Lectures and High Level Panel Discussion

Time	Abbasi Hall (Saturday, 1 October 2016)
08:30-11:00	<p><b>Opening:</b> Prof. Mohsen Ashtiany (IEEA Pres.) and Prof. Norio Okada (IDRiM President); H.E. Dr. Zargarpour (Isfahan Governor); H.E. Mr. Mahmoodi (Acting Minister of Energy), H.E. Dr. Hemmati (President of Central Insurance Org.); Ms. Laroche (Director of UNESCO).</p> <p><b>Keynote:</b> Prof. Kabat (IIASA-DG): Benefit of System Science, The Case of Global Energy and Water Security</p>
11:30-13:00	<p style="text-align: center;"><b>High Level Panel on Socio-Economic Needs for DRR</b></p> <p><b>Keynote:</b> Hareh Shah, Alex Chen: Disaster Risk Insurance for Mass</p> <p><b>Panelists:</b> Dr. Zargarpour, Dr. Hemmati, Dr. Jamalnejad, Prof. Nachtnabel, Prof. Jafari, Prof. Ashtiany, Prof. Tatano</p>

### Agenda of Special Sessions in IDRiM 2016 Conference

SS-01	Building Code Implementation and Insurance Experiences, Challenges and Prospects
<b>Abbasi Hall (Saturday, 1<sup>st</sup> October 14.00 – 17.30)</b>	
<b>Description:</b> This session discusses why building code enforcement and related regulatory processes have not yet resulted in reducing building vulnerability against natural hazards and improving the safety and quality of buildings. It will emphasize on finding the economic incentive and added value for good quality construction and use of the insurance and building quality and ranking system.	
<b>Organizers:</b> Iranian Earthquake Engineering Association (IEEA), Ministry of Road and Urban Development (MRUD) and Iran Central Insurance	
<b>Chairpersons:</b> Mohsen Ashtiany, Hamed Mazaherian, Habib Mirzaei	
Time	Speaker and Title
14:00-14:10	Mohsen Ashtiany: Integration of Economy and Insurance in Iran DRR Strategy
14:10-14:25	Hamed Mazaherian and Sheibani: Building Code Implementation and Construction Quality in Iran: Issues and Challenges
14:25-14:40	Thomas Moullier, F. Krimgold (WB-GFDRR): Building Regulation for Resilience Managing Risks for Safer Cities (Video Presentation)
14:40-14:55	Behrooz Gatmiri: Status of Engineering Practice in Iran
14:55-15:10	Mohsen Ashtiany, Iman Ahmadi: Standard for Evaluation and Ranking of Quality and Safety of Buildings (SEQSB) and its integration with economic value and insurance
15:10-15:20	D. Amir-Mazaheri: French Experience in Building Code Implementation
15:20-15:30	Shikh Ansari: The Activities of MRUD on Implementing the Building Quality Insurance
15:30-16:00	<b>Tea and Coffee Break</b>
16:00-16:15	Habib Mirzaie: Review of The Insurance of Inherent Defect of Buildings in Selected Countries And Iran
16:15-16:25	Bahram Ghaffari: Role of Insurance in Ensuring Safety and Quality
16:25-16:40	Mehmet Emin Akdogan, Siamak Moghadam and Zahra Abbasi (UN-HABITAT): Improving Human Coordination for Risk Aware Society.
16:30-17:30	<p><b>Panel Discussion:</b> What is the best model for integrating building quality ranking and insurance as an economic incentive for code implementation process?</p> <p><b>Panelists:</b> M.K. Jafari (President of IIEES), Mirzaei (Iran Central Insurance), Bahram Ghaffari (Iran National Building Standards Council), Sheibani (Ministry of Road and Urban Development), Alex Chen (Stanford University), Behrooz Gatmiri (President of Engineering Consulting Association), D. Amir-Mazaheri (AFPS), Ali-Akbar Owlia (Secretary General of Iran Insurance Syndicate), Mahmood Hosseini (Iranian Society of Civil Engr.); Akdoghan (UNHABITAT)</p>

<b>SS-02</b>	<b>Water Management and Governance/Water Crisis</b>
<b>Aeineh Hall (Saturday, 1<sup>st</sup> October 14.00 – 17.30)</b>	
<p><b>Description:</b> The strong inter-relation in the social domain between water, energy, and food as well as the manifold interfaces among ecosystems and water demand for an integrated management approach. Most of our water assessment and management tools are based on the assumption of stationarity, but that is in contradiction to our experience that our world displays strong non-stationarities reflected by a growing population, international migration flows, economic development and climate change among others. These changes result in an increasing pressure on water resources and competition for water among different users.</p> <p>Reconciling water uses among competing social needs is a political as well as technical process. Integrated water resources management principles and practice should be accepted by all stakeholders who are bound in cooperation based on recognized responsibilities and processes. This implies an adequate level of accessible information and data, a shared and open knowledge base, capacity development, partnerships and conducive institutional-legal frameworks. Water management, however, should go beyond the focus on the water cycle and competing uses and should involve socio-economic, environmental, legal and governance-related issues in a collaborative spirit.</p>	
<b>Organizers:</b> IIASA, Iran Ministry of Energy, BOCU	
<b>Chairpersons:</b> Hans-Peter Nachtnebel, Pavel Kabat, Simon Langan, Bahram Taheri	
<b>Time</b>	<b>Speaker and Title</b>
14:00-14:10	Chairs Introduction: Objective of the Special Session
14:10-14:30	Isa Kalantari (President Special Adviser on Water Management): Water, Population and Food Security in Iran, Horizon 1410 (2030)
14:30-14:45	Alireza Daemi (Vice Minister of Energy): Water Economy and Policy
14:45-15:00	Masoud Mirmohamad-Sadeghi, Ehsani: Zayande-Rood Water Basin Management
15:00-15:15	Bahram Taheri: Lake Uromieh Desiccation: Is it a Water Governance Problem?
15:15-15:30	H.P. Nachtnebel: Integrated Water Management In Europe: From Local Decisions to Trans-boundary Management.
15:30-16:00	<b>Tea and Coffee Break</b>
16:00-16:15	Simon Langan: Water Program at IIASA
16:15-16:30	Reza Maknoon (Amirkabir University): Need for Virtual Water Management in Iran
16:30-16:45	Ebrahimnia, Hedayat Fahmi: Integrated Water Management Strategy of Iran MoE
16:45-17:30	<p><b>Panel Discussion:</b> Cooperation on Future Water Management and Governance under climate uncertainty <b>Or</b> How to effectively aware the society toward creating a public demand on water security?</p> <p><b>Panelists:</b> Isa Kalantari, Alireza Daemi, Hans-Peter Nachtnebel, Pavel Kabat, Simon Langan, Bahram Taheri, Hedayat Fahmi</p>

<b>SS-07</b>	<b>Public Health Approach to Integrated Disaster Risk Management: From Concept to Action</b>
<b>Zarin Hall (Saturday, 1<sup>st</sup> October 14:00 – 15:30)</b>	
<b>Description:</b> The session discusses strategies and priority actions on how public health main pillars and capabilities can be used for community DRM	
<b>Organizers:</b> Tehran University of Medical Sciences, United Nations Population Fund (UNFPA) and Ministry of Health and Medical Education	
<b>Chairpersons:</b> Ali Ardalan and Soodabeh Ahmadzadeh	
<b>Time</b>	<b>Speaker and Title</b>
14:00-14:05	Chairs Introduction: Objective of the Special Session
14:05-14:15	Ardalan: Public health approach to integrated DRM: From concept to action
14:15-14:30	Ahmadzadeh: UNFPA Good practice of inter-organizational partnership, FORHEAD
14:30-14:45	Abbas Ostadtaghizadeh and Ali Ardalan: Women in Disasters: Vulnerable or Resilient
14:45-15:00	Forouzandeh Jannat, Ali Ardalan, Mokhtar Malek-pour, Gholamreza Masoumi, Marzieh Vahid-Dastjerdi, Iran Ghazi, Amir Mahmoodzade: Network analysis of Crisis and Emergency Management under Uncertainty in Tehran University of Medical Sciences Hospitals
15:00-15:15	Javad Babaie: Evidence-Based Disaster Risk Management for Health (EBDRMH)
15:15-15:30	<b>Discussion</b>

<b>SS-08</b>	<b>Improving Human Coordination for Risk Aware Society</b>
<b>Zarin Hall (Saturday, 1<sup>st</sup> October 16:00 – 17:30)</b>	
<b>Description:</b> The session discusses topics fall under the broad theme of humanitarian operation to gather a good mixture of theoretical and empirical studies across the globe. Discussions offered in this session could be of interest to a broad professional audience including researchers, practitioners, policy-makers and private sector stakeholders.	
<b>Organizers:</b> IIASA	
<b>Chairpersons:</b> Junko Mochizuki	
<b>Time</b>	<b>Speaker and Title</b>
16:00-16:05	Chairs Introduction: Objective of the Special Session
16:05-16:20	Junko Mochizuki: Review of serious gaming applications in humanitarian operations and disaster risk management: state-of-the-art and future directions for research
16:20-16:35	Hideyuki Ito, Wisinee Wisetjindawat and Muneta Yokomatsu: Reducing the Second Disaster through a Better Communication with Donors
16:35-16:50	Repaul Kanji: The Essence and Importance of Commitments in Humanitarian Logistics in Disaster Management
16:50-17:05	Bettina Wenzel, Jessica Reiter, Cordula Dittmer, Daniel Lorenz, Martin Voss: The Harmonization of People's Needs and Professional NGO Assistance. The Case of Flooding in Germany
17:05-17:20	Anjali Sen, Nimisha Goswami, Rajrattan Lokhande, Aditi Ghosh, Rhea Chawla and Sinu Chacko: Localizing Humanitarian Response and Preparedness Mechanisms: A Case Study of Pakistan on Mainstreaming Sexual and Reproductive Health in Crises
17:20-17:40	<b>Discussion</b>

<b>SS-11</b>		<b>Economics Analyses of Disaster Risk Reduction</b>	
<b>Sima Hall (Saturday, 1<sup>st</sup> October 14:00 – 15:30)</b>			
<b>Description:</b> The session is composed both of theoretical and empirical studies of leading economists in disaster area. Learning their focuses and results, participants will discuss on development of analytical frameworks that are consistent and integrated to investigate economic impact of disaster and risk reduction policies.			
<b>Organizers:</b> Disaster Prevention Research Institute (DPRI)			
<b>Chairpersons:</b> Muneta Yokomatsu			
<b>Time</b>	<b>Speaker and Title</b>		
14:00-14:05	Chairs Introduction: Objective of the Special Session		
14:05-14:20	Stefan Hochrainer-Stigler and Sebastian Poledna: Modelling Macroeconomic Effects of Natural Disaster Risk: A Large Scale Agent Based Modelling Approach using Copulas		
14:20-14:35	Masamitsu Onishi: Sharia'h compliance of catastrophic insurance		
14:35-14:50	Junko Mochizuki: Disasters as opportunity for Change: Tsunami Recovery and Energy Transition in Japan		
14:50-15:05	Muneta Yokomatsu, Hiroaki Ishiwata: An Economic Growth Model for Disaster Risk and Formation of Disaster-Prevention Capital		
15:05-15:35	<b>Discussion</b>		

### Agenda of General Sessions (GS) in IDRiM 2016 Conference

<b>GS-1</b>		<b>Risk Communication</b>	
<b>Sima Hall (Saturday, 1<sup>st</sup> October 16.00 – 17.30)</b>			
<b>Chairpersons:</b> Yasamin Izadkhah and Farokh Parsizadeh			
<b>Time</b>	<b>Speaker and Title</b>		
16:00-16:15	Tadashi Ise and Akhilesh Kumar Karna: An Introduction to Disaster Information Sharing System Considering the Diversity of the Municipalities and its Possible Utilization in the Aftermath of Gorkha Earthquake		
16:15-16:30	Yasamin Izadkhah and Kambod Amini Hosseini: Executive Policies for Improving Local Participation and Networking in Risk Management		
16:30-16:45	Nicolas Taillefer, S Fraser, A. Burzel, N. Chauvin, O. Morel, A. Hohmann, A. Simpson, A.Nunez, V. Deparday, M.Kuijper, S. Vermooten, H. Winsemius, F. Jacon and P. Giraud: ThinkHazard! - Giving decision makers access to multi-hazard information for safer projects		
16:45-17:00	Michaela Ibrion, Farokh Parsizadeh, Mohammad Mokhtari and Farrokh Nadim: Earthquake Culture in Iran: Resilience and Learning from Large Earthquake Disasters in Iran		
17:00-17:15	Yingying Sun, Katsuya Yamori, Fuhsing Lee, Takashi Sugiyama, Shingo Suzuki, Takahiro Nishino and Kenshin Urabe: MyDrill: A smartphone-based simulation tool for tsunami evacuation		
17:15-17:30	Hossein Tajmir Riahi and Sayyed Mehdi Fatemi: Implementation Plan for Disaster Risk Governance in Iran		

**Sunday 2<sup>nd</sup> October 2016**  
**Agenda of Special Sessions in IDRiM 2016 Conference**

SS-03	<b>Risk Management, Disaster Insurance and Insurance for Masses</b>
<b>Aeineh Hall (Sunday, 2<sup>nd</sup> October 09:30 - 17.30)</b>	
<b>Description:</b> This session examines how earthquake insurance can be brought to the masses where almost all those people who are at the bottom of the economic pyramid can avail themselves to such Financial technology product. Also the roles of disaster insurance on the recovery after disasters are discussed. Implementation of disaster insurance in developing countries, especially in Iran, encounters several difficulties. In this session, the international experiences on disaster insurance are debated and several methods for solving the implementation problem are discussed.	
<b>Organizers:</b> Stanford University, Iranian Earthquake Engineering Association of (IEEA), Iran Central Insurance Organization and Iran Insurance Syndicate	
<b>Chairpersons:</b> Alex Chen, Mohsen Ashtiany, Rahim Mosadegh	
Time	Speaker and Title
09:30-09:45	Haresh Shah, Alex Chen: Introducing the Concept of Insurance for Masses
09:45-10:00	Ian Chen: The Use of Technology for Mass Market Insurance
10:00-10:15	Alex Chen and Haresh Shah: Catastrophe Risk Management in Asia, Development Strategies for Insurance for the Masses
10:15-10:25	Amir Safari: Insurance for Masses: Application in Iran's Insurance
10:25-10:35	Behrooz Gatmiri: Cindynic Approach: trends, findings and perspectives
10:35-11:00	<b>Panel Discussion:</b> How to integrate Insurance into sustainable development process, implement Insurance for Masses and increase the insurance coverage. <b>Panelist:</b> Haresh Shah, Alex Chen, Mohsen Ashtiany, Amir Safari, Rahim Mosadegh
11:00-11:30	<b>Tea and Coffee Break</b>
11:30-11:45	Pooya Sarbandi: Risk and Uncertainty: How Risk Models Reduce Blockers Towards a Thriving Insurance Market
11:45-12:00	John Schneider: The Global Earthquake Model, OpenQuake Computational Platform and Application to Disaster Risk Reduction
12:00-12:15	Dominik Lang, et. al.: Tools for Earthquake Loss Estimation, Recent Developments and Possibilities for Practical Use
12:15-12:30	Stefan Hochrainer-Stigler: IIASA CATSIM Tool
12:30-12:45	Kiarash Naser-Asadi and Mohsen Ashtiany: Risk Base Earthquake Insurance Index for Buildings in Iran
	M.R. Zolfaghari and Sina Naeimi: On Effects of Policy Conditions on Insurance Penetration in Tehran
12:45-13:00	Ashtiany, Taheri, Zahrani: Risk Management and Insurance at Iran Ministry of Energy
13:00-14:00	<b>Lunch</b>
14:00-14:15	John Schneider: GEM-EMME Project a Tool for Urban Risk Assessment
14:15-14:30	Babak Mansouri, M. Ashtiany, M. Zolfaghari: EMME-Mashhad Risk Model and its Use for Insurance Modeling
14:15-14:30	Morteza Bastami: Earthquake Insurance in Tehran: Factors Affecting Individual's Willingness to Pay
14:45-15:00	M.R. Zolfaghari: Development of a Catastrophe Risk Model to Manage Earthquake Risk and Promote Catrisk Insurance in the Middle East
15:00-15:40	<b>Panel Discussion:</b> The Role of Risk Modeling in the Disaster Risk Management in Iran; Issues, Challenges <b>Panelists:</b> Najjar, Schneider, Mosadeghi, Zolfaghari, Stigler, Lang, Safari, Sarbandi
15:30-16:00	<b>Tea and Coffee Break</b>
16:00-16:15	Rahim Mosadegh: Natural Hazard Insurance Pool Bill
16:15-16:30	Latifi: Iran Disaster Insurance Pool, From Iran DRR Perspective
16:30-16:45	Hooman Motamed, Hugh David Hutcheson and Chris Dickinson: Optimal Catastrophe Property Portfolio in Light of Solvency II Capital Requirement
16:45-17:30	<b>Panel Discussion:</b> How to Implement the Disaster Insurance Pool in Iran <b>Panelists:</b> Najjar, Ashtiany, Mosadegh, Owlai, Alex Chen, Pierre Tinar, Latifi



<b>SS-04</b>	<b>Experience Sharing around the French Practical Approach of Seismic Security Engineering and Risk Management</b>
<b>Zarin Hall (Sunday, 2<sup>nd</sup> October 09:30 – 15:40)</b>	
<b>Description:</b> The session focuses on the main unclassical steps of the process for which French Deciders needed more information from the professional world to improve decision making. Each step is a technical field, but only the main assumptions, methodology, main conclusions and Influence on the political decision will be presented.	
<b>Organizers:</b> French Association for Earthquake Engineering (AFPS), Iranian Earthquake Engineering Association (IEEA)	
<b>Chairpersons:</b> Darius Amir-Mazaheri (AFPS); A.S. Moghadam (IEEA)	
<b>Time</b>	<b>Speaker and Title</b>
09:30-10:10	Darius Amir-Mazaheri, Honor & Former President, AFPS: Overall seismic security engineering: state of the art and feedback on current practical knowledge and needs
10:10-10:20	Mohsen Ashtiany and Armin Aziminejad (IEEA): Status of Earthquake Engineering in Iran
10:20-10:50	François Dunand, Geoter-Fugro: Instrumental seismicity and implementation; tectonic motion by GPS; synthesis in useful data with the use of historical seismology and source effect analysis
10:50-11:10	Jean-Philippe Girard, AFPS: High risk industries in France: joint action by public authorities, owners/operators and the French association for earthquake engineering (AFPS) for a safe design and operation taking into account the seismic hazard.
11:10-11:30	<b>Tea and Coffee Break</b>
11:30-11:50	Darius Amir-Mazaheri: Strategic elements for crisis management in seismic situation
12:10-11:30	Nicolas Taillefer, O. Alemzadeh and Behrouz Gatmiri (BRGM): Vulnerability assessment at city level: describing existing situation to enhance DRM action plans. Examples of four Iranian cities and Nice (France)
12:30-12:50	Nicolas Taillefer (BRGM): Preliminary Diagnostic for Public Buildings: Providing Decision Makers with quantitative information. Case Study at provincial level, South West of France (Hautes-Pyrénées)
12:50-13:10	François Dunand (AFPS): Emergency and Crisis Management
13:10-14:00	<b>Lunch Break</b>
14:00-14:40	Pierre Tinard (CCR): Seismic risk financing and transfer in France: the practical experience of a public-private insurance scheme
14:40-15:00	Pierre Tinard (CCR): Contribution of the insurance sector to an integrated approach of seismic risk management, involving risk transfer, risk prevention policy financing and data sharing for decision making and participative governance
15:00-15:40	<b>Panel Discussion:</b> Round Table discussion on practical Lessons learned from national integrated seismic risk management and further co-operation to implements <b>Panelists:</b> D. Amir-Mazaheri, F. Dunand, JP. Girard, N. Taillefer, P. Tinard, A.M. Cruz, N. Okada, M.K. Jafari, M. Ashtiany, B. Gatmiri, A.S. Moghadam, M. Hosseini

<b>SS-09</b>	<b>Integrating DRR into Environmental Impact Assessment and Strategy Environmental Assessment (EIA/SEA)</b>
<b>Sima Hall (Sunday, 2<sup>nd</sup> October 09:30 – 11:00)</b>	
<b>Description:</b> The session will discuss good international practices of integrating DRR elements into EIA/SEA and discuss how it could be promoted as a global best practice.	
<b>Organizers:</b> UNEP-UNDP-Iran DoE	
<b>Chairpersons:</b> Muralee Thummarukudy, Chief Disaster Risk Reduction, UNEP	
<b>Time</b>	<b>Speaker and Title</b>
09:30-09:35	Chairs Introduction: Objective of the Special Session
09:35-09:50	Saeed Motasaddi, Deputy for Human Environment, Iran Dept. of Environment: Environmental Impact Assessment (EIA) process in Iran and Risk Assessment
09:50-10:05	Irfan Maqbool, ADPC Bangkok. Topic : Collaboration with the Government of the Philippines on integrating DRR in EIAs
10:05-10:20	Armen Grigoryan, UNDP Regional Office in Ankara. Topic : UNDP projects in West Asia on the Disasters and Development Nexus
10:20-10:35	Reza Rahmati: Strategy Environmental Assessment (SEA) Process in Iran and Risk Assessment
10:35-10:50	Niloufar Bayani, UNEP: Integrated Strategic Environmental Assessments in Sri Lanka and Nepal
10:50-11:00	<b>Discussion</b>

<b>SS-10</b>	<b>Ecosystem-based Approaches to Disaster Risk Reduction in the Region</b>
<b>Sima Hall (Sunday, 2<sup>nd</sup> October 11:30 – 13:00)</b>	
<b>Description:</b> The session will discuss good international practices of integrating DRR elements into EIA/SEA and discuss how it could be promoted as a global best practice.	
<b>Organizers:</b> UNEP-Iran DoE	
<b>Chairpersons:</b> Muralee Thummarukudy, Chief Disaster Risk Reduction, UNEP	
<b>Time</b>	<b>Speaker and Title</b>
11:30-11:40	Chairs Introduction: Objective of the Special Session
11:40-11:50	UNEP Video: Introduction to Eco-DRR and UNEP
11:50-12:00	Fatima Akbary, UNEP: Chemicals and Disaster Management in Natural Settings
12:00-12:10	Shirinagha Samim, UNEP: Eco-DRR project in Afghanistan and linkages to national policy
12:10-12:20	Bahram Taheri, Senior Environment, Health & Safety Advisor to the Iran Minister of Energy. Topic: TBA
12:20-12:30	Soleymani, DOE: Ecological Disaster Risk Management Experience in the Iranian Wetlands
12:30-13:00	<b>Discussion</b>

SS-15	<b>Young Scientist Session</b>
<b>Sima Hall (Sunday, 2<sup>nd</sup> October 14:00 – 18:00)</b>	
<b>Description:</b> To appreciate and encourage the young scientist and giving them visibility among senior scientist; the 'Young Scientists Session (YSS)' is a unique and special occasion that the IDRiM conference provides young researchers every year. Every participant of the session gives oral presentations and experiences fruitful discussions with other young scientists as well as senior researchers and professors. Participants in the YSS are eligible to participate in the "Best Paper Award" competition, organized, evaluated and awarded during the conference. The Award Ceremony is held during the conference.	
<b>Organizers:</b> IDRIM and IEEA	
<b>Chairpersons:</b> Muneta Yokomatsu and Yasamin Izadkhah	
Time	Speaker and Title
14:00-14:15	Adibzadeh Seyed Benyamin: Increasing the Seismic Resilience of Buildings Using Movable Bracing Elements for Temporary Night-time Retrofit
14:15-14:30	Arian-Moghaddam Salar: Fast Shift to the Seismic Resilience; Building a House of Sand and Fog
14:30-14:45	Tayaran Ali: Using Pillow-Shape Base Isolators, an Efficient, Low Cost and Low Tech Seismic Isolation to Make Buildings Resilient against Near-field Earthquakes
14:45-15:00	Arghavani Mahban: Some Conceptual Thoughts on Modelling of Resilience
15:00-15:15	Shahbazi Parisa: Need for a Seismic Risk Hedging Instrument for Iran
15:15-15:30	Hashemi Banafsheh: Effects of Earthquakes on Railway Transportation System, and Some Measures for Upgrading Its Resilience
15:30-15:45	Leili Nazanin: Comparing the Earthquake Performance of Four Selected Hospitals in Tehran Based on the Fragility of Their Emergency Section Equipment
15:45-16:00	Samadian Delbaz: Evaluation of Resilience Index Using Fragility Curves
16:00-16:15	<b>Short Break</b>
16:15-16:30	Zaryoun Mona: On the Role of Modern Sustainable Architecture in Disaster-Resiliency of New Buildings and Cities
16:30-16:45	Atrachali Mohammad: A framework for urban seismic resilience assessment, Case study of two districts in Tehran
16:45-17:00	Chavoshy Amir: Necessity of introducing the resilience framework to the urban road network throughout earthquake for analysis of improvement solutions
17:00-17:15	Bayat Zohreh: On the Use of Spaces under City Bridges for Disaster Emergency Response and Post-Disaster Sheltering – Case Study: Hafez Overpass Bridges in Tehran
17:15-17:30	Iwahori Takuya: Practice of Disaster Education Based on Legitimate Peripheral Participation Theory: A New Approach to Learning
17:30-17:45	Asadzadeh Simin: Evaluation of the relevant parameters affecting the vulnerability of old urban historical and commercial fabrics to potential earthquakes
17:45-18:00	Haneih Okhovat: Disaster-Resiliency Aspects of Vernacular Architecture: Case Study of Dezful, Southwest Iran

<b>SS-12</b>	<b>Sense of Community : Issue and Problems for Effective Community Based Disaster Risk Management</b>
<b>Zarin Hall (Sunday, 2<sup>nd</sup> October 16:00 – 17:30)</b>	
<b>Description:</b> The proposed session welcomes discussion from theoretical and empirical stands on how the community should be defined in disaster situations, what are the factors and processes of the formation of a sense of community and its consequences in designing and implementing community based disaster risk management programs and projects.	
<b>Organizers:</b> DPRI-IIT Bombay	
<b>Chairpersons:</b> D. Parthasarathy, Department of Humanities and Social Sciences, Indian Institute of Technology, Bombay, Mumbai, India	
<b>Time</b>	<b>Speaker and Title</b>
16:00-16:05	Chairs Introduction: Objective of the Special Session
16:05-16:20	Yoko Matsuda: Community-based approach for multiple concerns: A Population Approach and Barrier Removal of Professions
16:20-16:35	Wei Xu, Xiujuan Zhao and Yunjia Ma: Community and Effective Community Based Disaster Risk Management in China
16:35-16:50	Subhajyoti Samaddar, Hirokazu Tatano: The Process Mechanism for Effective Community Participation in Disaster Risk Management: “Self-Efficacy” as a Catalyst
16:50-17:05	M.Reza Nilforoushan: Investigating the Impact of Strategic Management and Personnel Involvement on the Crisis Management; Case study: Personnel of Isfahan Municipality
17:05-17:20	D. Parthasarathy: Climate Change, Uncertainty and Flooding in Mumbai, India: The Role of Emergent Communities in Disaster Perception, Action and Policy-making
17:20-17:30	<b>Discussion</b>

### **Agenda of General Sessions (GS) in IDRiM 2016 Conference**

<b>GS-2</b>	<b>Disaster Response, Recovery and Reconstruction</b>
<b>Zarin Hall (Sunday, 2<sup>nd</sup> October; 09:30 – 11:00)</b>	
<b>Chairpersons:</b> Kambod Amini and Muneta Yokomatsu	
<b>Time</b>	<b>Speaker and Title</b>
09:30-09:45	Tomohiro Ichinose: Disaster risk reduction through land use planning – a lesson learned from the 2011 Tōhoku earthquake and tsunami in Kesennuma City
09:45-10:00	Hitomu Kotani and Muneta Yokomatsu: Quantitative Evaluation of the Effect of a Disaster-resistant Public Space on Social Network Formation: Is the Reconstruction of a Shopping Street an Excess Investment?
10:00-10:15	Hiroaki Daimon and T. Atsumi: “Pay it Forward” and Altruistic Responses to Disasters in Japan: Simulating and Latent Class Analysis of Support Following the 2011 Tohoku Earthquake
10:15-10:30	Sina Rokhsati, Majid Arvan and Peyman Beygi: Design an Intelligent Fire Detection System Based on Neural Network and Particle Swarm Optimization
10:30-10:45	Marie Bartels and Michael Hahne: Networks for Interorganisational Response Planning
10:45-11:00	Nemat Mohammadi and Eizo Hideshima: Significance of Evaluation Different Disaster Scenarios to Create a Comprehensive Evacuation Plan for the Rural Inhabitants in Flooding Situations

<b>GS-3</b>	<b>Lesson Learned</b>
<b>Sima Hall (Sunday, 2<sup>nd</sup> October 11:30 – 13:00)</b>	
<b>Chairpersons:</b> A. S. Moghadam and Mehdi Zare	
<b>Time</b>	<b>Speaker and Title</b>
11:30-11:45	Ahmadreza Ansari, Azin Sadat Ostadramezan and Fatemeh Atatalab: Past Earthquakes Lessons for Disaster Risk Financing
11:45-12:00	Aota Ryosuke: Consideration on the Situation in One Year after 2015 Nepal Earthquake
12:00-12:15	Kiarash Nasserassadi and Mohsen Ghafory-Ashtiany: Reconstruction and Recovery Lessons learned from Bam, Iran Earthquake, 26th December 2003
12:15-12.30	Kiarash Nasserassadi and Alireza Rajabzadeh: Reconstruction Planning for Future Disasters – Case Study of Zanzan City
12:30-12:45	Mehdi Zare: Lessons learned from the 2015 Mw7.8 Gorkha, Nepal Earthquake
12:45-13:00	Yosuke Inui, T. Atsumi, K. Inaba and S. Kawamura: The Nepal Earthquake: Rethinking Vulnerability and Resilience

<b>GS-4</b>	<b>Water and Flood Risk Management</b>
<b>Sima Hall (Sunday, 2<sup>nd</sup> October 14:00 – 15:30)</b>	
<b>Chairpersons:</b> Hans-Peter Nachtnebel and Esmaeili	
<b>Time</b>	<b>Speaker and Title</b>
14:00-14:20	Esmaeili , Shamsaei: Khoseztan Water Authority Flood Management with a Report on 2016 Flood.
14:20-14:40	H.P. Nachtnebel: Flood Risk Assessment in a Changing Environment
14:40-15:00	Parvareh: Risk Reduction Measures in Tehran Water Network
15:00-15:15	Flora Guillier PAPI: How effective is this public policy instrument for building integrated coping capacities with regards to flood risk?
15:15-15:30	Discussion

<b>GS-5</b>	<b>Water Risk</b>
<b>Sima Hall (Sunday, 2<sup>nd</sup> October 16:00 – 17:30)</b>	
<b>Chairpersons:</b> Hans-Peter Nachtnebel and Bahram Taheri	
<b>Time</b>	<b>Speaker and Title</b>
16:00-16:15	Ali Yousefi: Exposure to the Risk of Water Scarcity and Rural Poverty: a Case Study of Isfahan County, Iran
16:15-16:30	M. Javad Mehrani: Investigating the Impact of Water Pressure Reduction in Water Distribution Network on Different Factors (Case Study: North of Tehran City)
16:30-16:45	Mohammad A. Asadi-Zarch, Hossein Malekinehad, Mohammad R. Ekhtesasi and Seyed Z.Hosseini: How Did the Risk of Droughts In Iran’s Arid Areas Change in Response to Climate Change?
16:45-17:00	Hossein Malekinezhad and Fatemeh Barzegari: Regional Drought Monitoring and Analysing Using Linear Moments (Case Study: Central Basin of Iran)
17:00-17:15	Naser Dehghanian, Gholamreza Nikravesh and Ali Chavoshian: Development of a Multivariate Standardized Index (Rainfall-Runoff) for Drought Frequency Analysis

**Monday 3<sup>rd</sup> October 2016**  
**Agenda of Special Sessions in IDRiM 2016 Conference**

<b>SS-05</b>	<b>Resilience of Electric Grid Network to Natural Disasters</b>
<b>Aeineh Hall (Monday, 3<sup>rd</sup> October 08:30 – 12:30)</b>	
<b>Description:</b> The session is the start of an exchange toward the development of the joint cooperation on the Resiliency of Electric Grid Network to Natural Disasters. At this stage it will examines what is the structure of the GRID network in Iran, what type of data Is available; as well as the vulnerability of electricity grid to natural disasters and investigates methods for reducing and transferring the associated risk with electricity networks.	
<b>Organizers:</b> International Institute for Applied Systems Analysis (IIASA), Ministry of Energy(MoE) and International Institute of Earthquake Engineering and Seismology (IIEES)	
<b>Chairpersons:</b> Nadejda Komendantova (IIASA) and Mohsen Ashtiany (IIEES, MoE)	
<b>Time</b>	<b>Speaker and Title</b>
08:30-08:40	Chairs Introduction: Objective of the Special Session
08.40-09:00	Stefan Hochrainer-Stigler (IIASA): Systemic and Extreme Risks: Ways forward for a Joint Framework
09:10-09.15	Ahmadi: An overview on Tehran Electricity Grid Network
09:15-09:30	Farrokh Nadim (NGI), Bjørn G. Kalsnes and Christian Jaedicke: Managing the risk posed by geo-hazards to electricity network in Norway
09:30-09:45	Nadejda Komendantova (IIASA), Masoud Yazdanpanah: Impacts of energy transition in Iran on vulnerability of infrastructure to natural hazards
09:45-10:00	Kanat Botbaev, Iryna De Meyer and Nadejda Komendantova (OSCE): The role of international cooperation in protecting critical energy infrastructure
10:10-10:30	<b>Tea and Coffee Break</b>
10:30-10:45	Mohsen Ghafory-Ashtiany and Mahban Arghavani (IIEES): Overview on past performance of the Iran Grid network during natural disasters.
10:45-11:00	Morteza Bastami: Seismic Risk Assessment of Tehran Electric Power Network using an Integrated Methodology
11.00-11:15	Babak Esmailzadeh Hakimi and Babak Mansouri (IIEES): National Electrical Network Reliability Concerns and Code Development
11:15-11:30	Oscar van Vliet and Paula Redondo Diaz (ETH Zurich), Resilience of Electricity Transmission Grids
11.35-12:30	<b>Panel Discussion:</b> IIASA-MoE-IIEES Roadmap for Economic Resilience of Electricity Grid Network <b>Panelists:</b> Nadejda Komendantova and Stefan Hochrainer-Stigler (IIASA), Mohsen Ashtiany (IIEES, MoE), Mosareza (Isfahan Regional Electric Company), Mahmood Hosseini and Bastami (IIEES),

<b>SS-06</b>	<b>Advances in Na-Tech Disaster Prevention and Mitigation</b>
<b>Aeineh Hall (Monday, 3<sup>rd</sup> October 14:00 – 15:30)</b>	
<b>Description:</b> The continued occurrence of Na-Tech (Natech) events and the ongoing environmental changes are an invitation to revisit existing expertise and practices in risk analysis and assessment, and emergency response planning at industrial facilities and in communities potentially affected.	
<b>Organizers:</b> Disaster Prevention Research Institute (DPRI) and European Commission, Joint Research Centre	
<b>Chairpersons:</b> Ana Maria Cruz and Elisabeth Krausmann	
<b>Time</b>	<b>Speaker and Title</b>
14:00-14:15	Elisabeth Krausmann- Joint Research Centre, European Comm.: Natech Risk Reduction and Assessment
14:15-14:30	Junlei Yu – Nanyan Technological University, Singapore, Ana Maria Cruz (DPRI) and Hokugo, A (Kobe University): Household Reentry Behavior after Evacuating for Natech Accident
14:30-14:45	Mehran Razzaghi-IEEA and M. N. Ahari, Iran: Comprehensive report on Oil, Gas, Petrochemical and Industrial Accidents in Iran
14:45-15:00	Ana Maria Cruz- Kyoto University, Japan, Eric Piatyszek, Junlei Yu, Michel Lesbats, Alicja Tardy: Resilience in the Face of Natech Disasters: Findings from the ResTO-TerRiN Project
15:00-15:30	<b>Panel Discussion:</b> Risk reduction of Na-Tech in Iran <b>Panelists:</b> Ana Maria Cruz and Elisabeth Krausmann, Mehran Razzaghi, Mahmood Hosseini

<b>SS-13</b>	<b>Resilient City and Infrastructure</b>
<b>Zarin Hall (Monday, 3<sup>rd</sup> October 10:30 – 12:30)</b>	
<b>Description:</b> The session focuses on the main elements (i.e. physical, socio-economic, etc.) affecting resiliency of urban fabrics to natural disasters and their measuring models. During the recent years and especially after the approval of SFDRR in Sendai (2015), many researches towards developing appropriate models for measuring and improving resilience at local levels have been implemented and few models have been presented in the relevant literatures. Some of these methods will be addressed in this session and their application in different geographical locations will be discussed.	
<b>Organizers:</b> Karlsruhe Institute of Technology (KIT) and IIEES	
<b>Chairpersons:</b> Bijan Khazai (KIT-Germany) and Kambod Amini Hosseini (IIEES)	
<b>Time</b>	<b>Speaker and Title</b>
10:30-10:40	Chairs Introduction: Objective of the Special Session
10.40-10:55	Bijan Khazai, Christopher Burton and Johannes Anhorn: Resilience Performance Scorecard, Measuring urban disaster resilience at multiple levels of geography
10:55-11:10	Sebnem Duzgun, Robyn Vasco and Friedemann Wenzel: Interdependency Analysis of Road Infrastructure for Earthquake Triggered Landslides
11:10-11:25	M. Arghavani and M. Ashtiany: Conceptual Thought on Resilience Concepts
11:25-11:40	Kambod Amini: Challenges and opportunities in promoting the resilience level in urban fabrics
11:40-11:55	Jozef Ristvej: COBACORE as the Tool for Supporting Resilient Societies and Cities, Lessons Learnt from Past Disasters
11.55-12:30	<b>Panel Discussion:</b> Importance level of resilience elements and priorities for intervention in urban fabrics <b>Panelists:</b> Bijan Khazai, Kambod Amini,

<b>SS-14</b>	<b>Panel Discussion on Engineering Practice in Iran: Issues and Challenges</b>
<b>Sima Hall (Monday, 3<sup>rd</sup> October 8:30 – 12:30)</b>	
<b>Description:</b> This session will address three issues. First, to review the engineering practice in Iran and to derive the parameters that have the most impact in shaping those practices. Second, to determine the role of local and national engineering bodies, also the NGO's in development of a practical integrated disaster risk management framework. Third, to explore the opportunities in seismic risk reduction through application of solutions such as industrialised building construction in country.	
<b>Organizers:</b> IIEES-IEEA-IEO-ITU	
<b>Chairpersons:</b> Farhad Behnamfar, ITU and Abdolreza S. Moghadam, IIEES-IEEA	
<b>Time</b>	<b>Speaker and Title</b>
08:30-08:40	Chairs Introduction: Objective of the Special Session
08:40-08:50	Behbahani and Najafi: Challenges in implementing Engineering Regulatory Law
08:50-09:00	Akbari and Najafi: The role of governmental technical overview
09:00-09:10	Deymoei and Ghavibayan: Experiences in rural buildings retrofitting
09:10-09:20	Taheri and Ghavibayan: The level of compatibility between municipality and national building regulations
09:20-09:30	Taheri and Mosavi: The level of real life success of fire regulations
09:30-09:40	Iravani and Heydarian: The experiences in material standardization
09:40-09:50	Moghadas and Mosavi: Safety challenges in natural gas distribution network
09:50-10:00	Moghadas and Passandeh: Ground deformations and gas network safety
10:00-10:10	Gheuominia and Pasandeh: Deterioration of sewer gathering system
10:10-10:20	Jafari and Razian: Experiences in development of resilient buildings
10:20-10:30	Khajehpour: Experiences in implementing material standards in Shiraz
10:30-10:40	Allavian: Practical fire regulations
10:40-10:50	Raasti: The experiences in Shiraz on effect of governmental bodies supervisions
10:50-11:00	Mohammadi: Self-centered systems for seismic retrofitting of buildings
11:00-11:10	Mohammadi-Darani: Mitigating seismic risk of masonry schools in Iran
11:10-11:20	Arian-Moghadam: Standard Framework for Evaluation and Ranking of Quality and Safety of Buildings
11:20-12:30	<b>Panel Discussion:</b> Engineering Practice in Iran: Issues and Challenges <b>Panelists:</b> Behnamfar, Moghadam, Khajehpour and Zarei



## Agenda of General Sessions (GS) in IDRiM 2016 Conference

<b>GS-6</b>	<b>Climate Change</b>
<b>Sima Hall (Monday, 3<sup>rd</sup> October; 08:30 – 10:00)</b>	
<b>Chairpersons:</b> Andries Jordaan, Hans-Peter Nachtnebel	
Time	Speaker and Title
08:30-08:45	Jessica Reiter: The Social Dimension of Heat Waves, Blind Spots in Climate Change Adaptation and Disaster Risk Management in Germany and India
08:45-09:00	Somayeh Shadkam, Fulco Ludwig, Michelle T.H. van Vliet, Amandine Pastor and Pavel Kabat: Preserving the World Second Largest Hypersaline Lake under Future Irrigation and Climate Change
09:00-09:15	Xinyu Jiang, Nobuhito Mori, Hirokazu Tatano, Qiuhua Liang, Lijiao Yang and Yoko Shibutani: Assessment of storm surge inundation risk due to climate change: a case study of Ise bay, Japan
09:15-09:30	Masoud Yazdanpanah, M. Thompson and J. Linnerooth-Bayer: Do Iranian policy makers truly understand and dealing with the risk of climate change regarding water resource management?
09:30-09:45	Mohammad Rahimi: Climate Change Disaster Risk Reduction: A Developing County Perspective
09:45-10:00	Andries Jordaan: Drought loss functions for extensive livestock production: Case study of wool sheep in South Africa

<b>GS-7</b>	<b>Economy and Business Continuity</b>
<b>Zarin Hall (Monday, 3<sup>rd</sup> October, 14:00 – 15:45)</b>	
<b>Chairpersons:</b> Kenji Ono and Hooman Motamed	
Time	Speaker and Title
14:00-14:15	Tetsuya Torayashiki, Hiroaki Maruya: Study on the Differences Between the Indirect Economic Impacts of the Predicted Volcanic Eruption and Earthquake in the Miyagi
14:15-14:30	Morteza Bastami and A. Jafarifard: Models Estimation of Economic Losses due to Earthquake in Lifeline Systems
14:30-14:45	Yasuhiro Akakura and Kenji Ono: A Possible Risk Reduction of the Negative Impact of Port Blockage by Disasters on the Global Trade and Economy - Case study of U.S. West Coast Port Disruption
14:45-15:00	Kenj Ono and Yasuhiro Akakura: Computer Aided Analysis for Managing Business Continuity in Ports
15:00-15:15	Lijiao Yang, Hirokazu Tatano and Xinyu Jiang: Measuring business interruption loss due to floods disaster with a supply-driven input-output model
15:15-15.30	Niloofer Sadeghi Komjani, B. Omidvar and A. Chavoshian: Seismic risk analysis of water supply systems considering interaction between and common cause failure and providing risk reduction strategies, Case study: Water network in municipal district No. 6 of Tehran
15:30-15:45	Mohammad Mokhtari, Hamid Zafarani and Majid Mahood: Socio-Economic Impact of Tsunami in the Makran Region-South East Iran

<b>GS-8</b>	<b>Earthquake Engineering and DRR</b>
<b>Sima Hall (Monday, 3<sup>rd</sup> October; 14:00 – 15:45)</b>	
<b>Chairpersons:</b> Sohrab Baghery and Reza Taherzadeh	
<b>Time</b>	<b>Speaker and Title</b>
14:00-14:15	Sohrab Baghery: New Hospital Princess Grace in Monaco: a Seismic Challenge
14:15-14:30	N. Razaghi-Kashani, A. Fox and D. Easterbrook: Adding value to an integrated risk management system by effectively incorporating post-earthquake structural assessment
14:30-14:45	M. R. Farmani and Afshin Kalantari: Influence of Lead-Extrusion Dampers on Annual Seismic Risk of a Hospital Building
14:45-15:00	Reza Taherzadeh and G. Potin: Earthquake Dam-Reservoir Interaction Analysis of Arch Dams
15:00-15:15	Mahdi Bamdad and Abdolreza Sarvghad Moghadam: Investigation of redundancy coefficient of RC frames to approach of Disaster Risk Management
15:15-15:30	Hossein Tajmir Riahi, Shahab Nasrolah Beigy and Ahmad Shanehsazzadeh: Multihazards Risk Assessment Approaches in Civil Engineering
15:30-15:45	Gholamreza Ghodrati Amiri and Elham Rajabi: Introduction of the most suitable parameter for selection of critical single and consecutive damaging scenario on regular reinforced concrete frames