

## Curriculum Vita

### **BABAK MANSOURI, Associate Professor**

International Institute of Earthquake Engineering and Seismology - **IIEES**

Member of Iranian Association of Earthquake Engineering – **IAEE**

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### **PERSONAL**

Date of Birth: April -9-1965

Married with 2 Children

### **EDUCATION**

- Ph.D., Civil Engineering, Feasibility of Remote Sensing Techniques for Post-earthquake Damage Detection and Mapping, University of Southern California, 2002. Dissertation Title: “Feasibility of change/damage detection in urban areas and structures by synthetic aperture radar (SAR) imagery”.
- M.S. in Electrical Engineering, Emphasis on Image Processing and Remote Sensing, University of Southern California, 2000.
- M.S. in Civil Engineering, Structural Engineering, University of Southern California, 1997.
- B.S. in Applied Physics, Tehran Polytechnic – Iran, 1994.

### **RESEARCH INTEREST**

- Risk and Loss model development in distributed systems (urban settings, lifeline systems, road networks, etc...).
- Country-wide risk/insurance model development.
- Application of geospatial technologies (RS and GIS) and image processing tools in disaster management
- Development of mobile-GIS applications and WEB-based systems for urban monitoring, data compilation and risk calculation
- Vulnerability modeling of structures
- Seismic performance of structures
- Novel technologies for rapid shelter and housing

### **ACADAMIC POSITIONS**

Since 2015	<b>Associate Professor,</b>
2008-2020	<b>Head of Emergency Management Department,</b> Risk Management Research Center, International Institute for Earthquake Engineering & Seismology, Tehran
2005-2015	<b>Assistant Professor,</b> International Institute for Earthquake Engineering & Seismology, Tehran
2002-2004	<b>Visiting Researcher,</b> University of California Irvine UCI, Department of Civil and Environmental
2001-2002	<b>Remote Sensing Senior Project Scientist,</b> Imagecat Inc. – Long Beach California
2000	<b>Researcher Fellow</b> TAO-HLRC (Telecommunication in Advancement Organization – Hamanem Lifeline Research Center) – Hamamatsu - Japan,
1995-2002	<b>Research Assistant,</b> School of Engineering, University of Southern California

## TEACHING EXPERIENCE (Graduate Courses)

### IIEES – International Institute of Earthquake Engineering & Seismology

Data Management and Geospatial Technologies and Applications, since 2010

Uncertainty and Risk Management, since 2014

Remote Sensing and Applications to Disaster Management, 2010

Disaster Management and Earthquake Engineering, 2009

Seismic Vulnerability of Structures, 2009

Advanced Remote Sensing and Digital Image Processing, 2007

Physics of Remote Sensing and Application to Risk Management, 2006

### University of Tehran

Advanced Microwave Remote Sensing, 2008

Physics of Remote Sensing, 2006 - 2007

### Khajeh Nassir Toossi - KNT University of Technology

Advanced Remote Sensing Techniques in SAR Change Detection, 2005

## HONOR/AWARD

- 2016-2018 Asia-Pacific Space Cooperation Organization (APSCO) – Appreciation for brilliant leadership as manager of the Joint Research Project.
- 2000 Multidisciplinary Center for Earthquake Engineering Research, National Science Foundation (NSF) - **Student Leadership Council (SLC)** – Advanced Technologies
- 2000 TAO-HLRC – Japan, **Research Fellowship Award**
- 1997-1998 University of Southern California – USC, **Teaching Assistant**, school of engineering
- 1998 PhD screening examination, **First Rank** - University of Southern California – Dept. Civil Eng. School of Engineering.
- 1995-2000 University of Southern California – USC, **Research Assistant**, school of engineering
- 1997 University of Southern California – USC, **Academic Achievement Award**, Office of International Student and Scholars (OIS at USC)

## RESEARCHER NETWORK AND DIGITAL AUTHORSHIP IDENTIFIER

- LinkedIn: <https://www.linkedin.com/in/babak-mansouri-5a6ab33b>
- ResearchGate: [https://www.researchgate.net/profile/Babak\\_Mansouri](https://www.researchgate.net/profile/Babak_Mansouri)
- Google Scholar: [https://scholar.google.com/citations?hl=en&user=88Bh\\_CMAAAAJ](https://scholar.google.com/citations?hl=en&user=88Bh_CMAAAAJ)
- ORCID: <https://orcid.org/0000-0001-7528-7948>
- SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=56436936400>
- Web of Science: <https://publons.com/researcher/4783490/babak-mansouri>  
(ISI ResearchID, Publons)

## PUBLICATIONS

### BOOK

Structural Health Monitoring of Civil Infrastructure Systems, 2009, edited by V. M. Karbhari and F. Ansari, Woodhead Publishing. - Chapter 4: Synthetic aperture radar and remote sensing technologies for structural health monitoring of civil infrastructure systems, M. Shinozuka and B. Mansouri

### RESEARCH REPORTS

Fallah-Tafty, M., Amini-Hosseini, K., Mansouri. B., 2020, "Developing earthquake damage and casualty assessment model", IIEES

PDNA (2020) Supporting the Implementation of PDNA Results and Developing Related National Guideline, United Nations Development Programme, UNDP - Contract number: PSC-19-11.

PDNA (2019) Post Disaster Needs Assessment, Housing Sector Report, Iran 2019 Floods in Lorestan, Khuzestan and Golestan Provinces, Budget and Planning Org. and UNDP, Tehran, Iran;

Rooeentan, S., Vasseghi, A., and Mansouri, B., 2019, "Feasibility Study on using Resilient Precast Systems for Prevalent Bridge Piers in Iran ", IIEES

Nasserkhaki, M., Vasseghi, A., and Mansouri, B., 2019, "Evaluation of Seismic Performance of Precast Concrete Buildings with Grouted Joints", IIEES

Amini-Hosseini, K., Mansouri, B., O. Izadkhah, Y., 2018, "Lessons Learnt from Sar-Pol-Zahab (Kermanshah) Earthquake of November 12, 2017: Disaster Management Aspects", Learning From Earthquakes program - LFE-EERI (August, 2018)

Amini-Hosseini, K., Ghaemghamian, M.R., Mansouri, B., 2017, "Sar-Pol-Zahab (Kermanshah) Earthquake of November 12, 2017: Preliminary Evaluation on the Disaster Management Process", Chapter 15, 4<sup>th</sup> volume, IIEES

Noroozinejad-Farsangi, E., Tasnimi, A. A., and Mansouri, B., 2017, "Development of Seismic Fragility Curves for the Conventional RC-MRFs Considering Vertical Component of Ground Acceleration", IIEES

Azhari, S., Vasseghi, A., and Mansouri, B., 2017, "Evaluation of Seismic Risk of Highway Network Focusing and Bridges Vulnerability", IIEES

Jalilvand, P., and Mansouri, B., 2015, "Developing Building and Population Inventory Using Dasymetry and Remote Sensing Methods for Urban Loss Estimation", IIEES

Kiani, A., Mansouri, B., Amini-Hosseini K., and S. Moghadam, A., 2014, "Urban Seismic Risk Modelling with Emphasis on Fragility Curve Development for Estimating Losses to Actual Urban Buildings", IIEES

Mostafazadeh, M., Mansouri, B., 2014, "Object-Oriented Approach for the Automatic Building Extraction and Damage Detection Using Optical Remote Sensing Technology", IIEES

Hamednia, Y., and Mansouri, B., 2014, "Development of a Remote Sensing Model for Seismic Building Damage Detection using Optical Satellite Data", IIEES

Mansouri, B., and Amini-Hosseini, K., 2013, "Global Earthquake Risk Model (GEM) - Earthquake Model of the Middle East Region (EMME) - Work Package 4: Seismic Risk Assessment", Final Report, 2013, IIEES internal contract #AM 7-269 (15/5/90).

Vasseghi, A., and Mansouri, B., 2013, "Study on Construction Methods for Concrete Coating of Natural Gas Pipelines at River Crossings", National Iranian Gas Company, 2013.

Amini-Hosseini, K., and Mansouri, B., 2013, "Global Earthquake Risk Model (GEM) - Earthquake Model of the Middle East Region (EMME) - Work Package 6: Socio-economic impact, Final Report, 2013, IIEES internal contract #AM 7-269 (15/5/90)

Mansouri, B., Amini-Hosseini, K., and Govahi, N., 2012, "Design and Development of a Mobile-GIS System for Coordinating Emergency Tasks and Field Surveys in Iran", *International Institute of Earthquake Engineering and Seismology*, Tehran, Iran.

Ghayamghamian, M. R., Mansouri, B., Amini-Hosseini, K., Tasnimi, A. A., Haghshenas, E., and Govahi, N., 2011, "Determination of Seismic Site Amplification Factors and the derivation of Structural Fragility Curves and Casualty Functions for Tehran Building Stock", Tehran Disaster Mitigation and Management Organization – TDMMO – Municipality of Tehran.

Mansouri, B., Ghayamghamian, M. R., Amini-Hosseini, K., and Govahi, N., 2011, "Earthquake Casualty Loss Modeling – Case Study: A District of Tehran", *International Institute of Earthquake Engineering and Seismology*, Tehran, Iran.

Motamed, H., Ghaffory-Ashtiany, M., Amini-Hosseini, K., and Mansouri, B., 2011, "Determination of Indices and Models of Urban Seismic Protection (Pilot Study: Parts of District 17 of Tehran City)", IIEES

Mansouri, B., Ghaffory-Ashtiany, M., Amini-Hosseini, K., Ghayamghamian, M. R., Nourjou, R., and Mousavi, M., 2008, "Urban Seismic Loss Estimation using Optical and Radar Satellite Imagery and GIS", *International Institute of Earthquake Engineering and Seismology*, Tehran, Iran.

Darrehzereshki, M., Ghaffory-Ashtiany, M., and Mansouri, B., 2008, "Development of fragility curves for unreinforced masonry buildings in Tehran using simplified nonlinear static analysis", IIEES

Amini-Hosseini, K., Towfighi, F., Ghayamghamian, M. R., Mohammadi, M., Hosseini, M., Mansouri, B., and Hosseinioon, S., 2008, "Local Disaster Management Assessment and Implementation Strategy Evaluation of existing Legal and institutional arrangement for Disaster Management in Iran", *World Bank project: EERP/PMU/CB/CB-SRI*.

Amini-Hosseini, K., Mansouri, B., Pouyan, Z., Sadeghi, N., Nourjou, R., 2006, "IIEES Risk and Disaster Management Department Master Plan", *International Institute of Earthquake Engineering and Seismology*, Tehran, Iran.

Adams, B. J., Mansouri, B., Huyck, C. K., Eguchi, R. T., Shinozuka, M., Loh, K., and Buckle, I. G., 2004, "Application of Remote Sensing Technologies in Post-Disaster Damage Assessment of Highway Systems", *Final Report for US Department Of Transportation under contract # DTRS56-01-T-0012*.

Adams, B. J., Huyck, C. K., Mio, M., Cho, S., Ghosh, S., Houshmand, B., Shinozuka, M., and Mansouri, B., 2004, "The Bam (Iran) Earthquake of December 26, 2003: Preliminary Reconnaissance Using Remotely Sensed Data and the VIEWS (Visualizing the Impacts of Earthquakes with Satellite Images) System", *MCEER Preliminary Reconnaissance Report*.

Adams, B. J., Huyck, C. K., Mansouri, B., Eguchi, R. T., and Shinozuka, M., 2004, "Application of High-Resolution Optical Satellite Imagery for Post-Earthquake Damage Assessment: The 2003 Boumerdes (Algeria) and Bam (Iran) Earthquakes", *Multidisciplinary Center for Earthquake Engineering Research MCEER, MCEER-04-SP01, Research Progress and Accomplishments 2003-2004*.

Huyck, C. K., Adams, B. J., Cho, S., Eguchi, R. T., Mansouri, B. and Houshmand, B., 2004, "Methodologies for Post-Earthquake Building Damage Detection Using SAR and Optical Remote

Sensing: Application to the August 17, 1999, Marmara, Turkey Earthquake”, *Multidisciplinary Center for Earthquake Engineering Research, Technical Report MCEER-04-0004.*

Eguchi, R. T., Huyck, C. K., Adams, B. J., Mansouri, B., Houshmand, B. and Shinozuka, M., 2003, “Resilient Disaster Response: Using Remote Sensing Technologies for Post-Earthquake Damage Detection”, *Multidisciplinary Center for Earthquake Engineering Research MCEER, MCEER-03-SP01, Research Progress and Accomplishments 2001-2003.*

Webb, G. R., Eguchi, R. T., Huyck, C. K., Mansouri, B., 2000, “Restoration Activities Following the Marmara, Turkey Earthquake of August 17, 1999”, *Multidisciplinary Center for Earthquake Engineering Research, MCEER Project # 99-9001, Reconnaissance Report of The Marmara, Turkey Earthquake of August 17, 1999, Technical Report MCEER-00-0001.*

Eguchi, R. T., Huyck, C. K., Houshmand, B., Mansouri, B., Shinozuka, M., Yamazaki F., and Matsuoka, M. 2000, “The Marmara Earthquake: A View from Space”, *MCEER Project # 99-9001, Reconnaissance Report of The Marmara, Turkey Earthquake of August 17, 1999, Technical Report MCEER-00-0001.*

Eguchi, R. T., Huyck, C. K., Houshmand, B., Mansouri, B., Shinozuka, M., Yamazaki, F., Matsuoka, M., and Ulgen, S., 2000, “The Marmara, Turkey Earthquake: Using Advanced Technology to Conduct Earthquake Reconnaissance”, *Research Progress and Accomplishments 1999-2000, Sponsored by National Science Foundation, NSF, MCEER-00-SP01.*

Anderson, J. C., Duan, X., Yin, Z., and Mansouri, B., 1996, “Behavior of high strength concrete exterior joints subjected to cyclic loads”, *Dept. of civil engineering, University of Southern California, report # USC/CRECE- 96-05.*

Shinozuka, M., ..... and B. Mansouri, “Use of visco-elastic dampers at expansion joints to suppress seismic vibration of bridges”, *FHWA contract DTFH61-92-C-00106 task 106-F-4.1.2.*

#### **PEER-REVIEWED JOURNAL PAPERS**

Mirhakimi, A., Hosseini, K., Mansouri, B., O.Izadkhah, Y., 2021, "Introducing a Framework for Planning and Selecting Suitable Evacuation and Emergency Sheltering in Disasters: Case Study of Tehranpar", *SBUM (Shahid Beheshti University of Medical Sciences) SPIP (Journal of Safety Promotion and Injury Prevention) (in Farsi), Vol. 8, No. 4, - 8(4): 247-259, Winter 2021.*

Naserkhaki, M., Vasseghi, A., Mansouri, B., 2020, "Analytical Modeling of Precast Concrete Grouted Beam–column Joints under Cyclic Load", *JCEE (Journal of Civil and Environmental Engineering) University of Tabriz, accepted Dec. 2020.*

Vasseghi, A., Mansouri, B., Rointan, S., 2020, "Feasibility Study on Utilizing Self-centering Structural System for Typical Highway Bridges in Iran", *CEEJ (in Farsi) Amirkabir (Tehran Polytechnic) Journal of Civil Engineering, published online on July 2020, DOI: 10.22060/CEEJ.2020.18323.6835.*

Shahbazi, P., Babak Mansouri, B., Ghafory-Ashtiany, M., Käser, M., 2020, "Introducing Loss Transfer Functions to Model Seismic Financial Loss: A Case Study of Iran", *IJDRR, International Journal of Disaster Risk Reduction, published online on Sept. 2020, DOI: 10.1016/j-ijdr.2020.101883.*

Motamed, H., Ghafory-Ashtiany, M., Amini-Hosseini, Mansouri, B., Khazai, B., 2020, "Earthquake Risk-Sensitive Model for Urban Land Use Planning", *Natural Hazards Journal*, published online on May, 2020, DOI: 10.1007/s11069-02-03960-7.

Mansouri, B., and Jalilvand, P., 2020, "Residential Building Distribution and Population Modeling by Dasymeric Approach Using Geospatial Data", *BESE (Journal of Science and Earthquake Engineering in Farsi)*. Accepted 2018, Published 2020.

Fallah-Tafti, M., Amini Hosseini, K., Mansouri, B., 2020, "Generation of new fragility curves for common types of buildings in Iran ", *BEE, Bulletin of Earthquake Engineering*, published online on March 2020, DOI: 10.1007/s10518-020-00811-5.

Shahbazi, P., and Babak Mansouri, B, 2019, "Grid Source Event-Based Seismic Hazard Assessment of Iran", *IJST, Iranian Journal of Science and Technology, Transactions of Civil Engineering*, Published online, 8 August, 2019, ISSN 2228-6160, DOI: 10.1007/s40996-019-00292-w.

Mansouri, B., Mousavi, S., and, Amini-Hosseini, K., 2018, "Earthquake Building Damage Detection Using VHR Satellite Data (Case study: Two villages near Sarpol-e Zahab)", *JSEE, Journal of Seismology and Earthquake Engineering*, Vol. 20, No. 4, Tehran, Iran.

Amini-Hosseini, K., O. Izadkhan, Y., Mansouri, B., Ghayamghamian, M.R., 2018 "Preparedness and Emergency Response Aspects of Sar-Pol-Zahab (Kermanshah), Iran Earthquake of November 12, 2017", *JSEE, Journal of Seismology and Earthquake Engineering*, Vol. 20, No. 4, Tehran, Iran.

Fallah-Tafti, M., Amini-Hosseini. K., Firuzi, E., Mansouri, B., and Ansari, A., 2017, " Ranking of GMPEs for Seismic Hazard Analysis in Iran Using LH, LLH and EDR Approaches", *JSEE, Journal of Seismology and Earthquake Engineering*, Vol. 19, No. 2, 2017, Tehran, Iran.

Shahbazi, P., and Mansouri, B., 2018, "Loss Modeling for 2017 Sarpole-Zahab Earthquake", *JSEE, Journal of Seismology and Earthquake Engineering*, Vol. 20, No. 4, Tehran, Iran.

Mansouri., B., and Farahani., H., 2016, "Effects of Construction Errors in Progressive Collapse of Concrete Structures", *Iranian Society of Structural Engineering – ISSE (2<sup>nd</sup> National Structural Engineering Conference of Iran)*, Feb. 2016, indexed peer-reviewed journal paper (in Farsi).

Mansouri, B., and Hamednia, Y., 2015, "A Soft Computing Method for Rapid Damage Mapping Using VHR Optical Satellite Imagery", *IEEE-JSTARS – IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (Volume: 8 , Issue: 10) – pages: 4935-4941 – Oct. 2015.*  
DOI: 10.1109/JSTARS.2015.2493342

Kiani, A., Manie, S., and Mansouri, B., 2015, "Comparison of code-specific non-linear seismic performance", *Journal of Structures and Buildings (ICE) – Vol: 169 – Issue: 7, July, 2016, pp. 471-491 – DOI: 10.1680/jstbu.14.00028 – ISSN 0965-0911*

Kiani, A., Mansouri, B, and S. Moghadam, A., 2015, "Fragility Curves for Typical Steel Frames with Semi-Rigid Saddle Connections", *Journal of Constructional Steel Research – Vol: 118, March 2016, pages 231-242. Doi: 10.1016/j.jcsr.2015.11.001*

Mansouri, B., and Mostafazadeh, M., 2015, "Object-Oriented Building Extraction Using VHR Optical Imagery and Seismic Damage Detection Using textural analysis and ANN", *BESE (Journal of Science and Earthquake Engineering in Farsi)*, Year 1, Vol. 1 Spring 2015.

Noroozinejad Farsangi, E., Tasnimi, A., and Mansouri, B., 2015, "Fragility Assessment of RC-MRFs under Concurrent Vertical-Horizontal Seismic Action Effects", *Computers and Concrete*, Vol. 16, No. 1 (2015) 99-123.

Mansouri, B., 2015, Kiani, A., and Amini-Hosseini, K., 2015, "A Platform for Earthquake Risk Assessment in Iran – Case Studies: Tehran Scenarios and Ahar-Varzeghan Earthquake", *Journal of Seismology and Earthquake Engineering, JSEE*, accepted Sept., 9, 2014.

Amini-Hosseini, K., Hosseini, M., O.Izadkhah, Y., Mansouri, B., Shaw, T., "Main challenges on community-based approaches in earthquake risk reduction: Case study of Tehran, Iran," *International Journal of Disaster Risk Reduction* 8(2014)114–124.

Mansouri, B., 2013, "Earthquake Damage Detection in Built Environment: An Object-Oriented Approach Using Radar Imagery", *Iranica Journal of Energy & Environment* 4 {(3) Geo-hazards and Civil Engineering}: 289-293, 2013, ISSN 2079-2115.

Matkan, A., Mansouri, B., Mir-Bagheri, B., and Karbalaee, F., 2015, "Detection of earthquake building damage using textural analysis on VHR satellite imagery - A case study of the 2010 Haiti earthquake", *Iranian RS & GIS Society Journal*, Year: 7, No: 2, Summer 2015. (in Farsi)

Mansouri, B., and Amini-Hosseini, K., 2014, "Development of Residential Building Stock and Population Databases and Modeling the Residential Occupancy Rate for Iran", *ASCE journal of Natural Hazards Review*, Vol 15, No 1, pp 88-94 (published online in 2012)

Entezari, I., Motagh, M., and Mansouri, B., 2012, "Comparison of the performance of L-band polarimetric parameters for land cover classification", *Canadian Journal of Remote Sensing*, Vol 38, No. 5, pp 629-643, 2012

Vajedian, S., Sarajian, M. R., and Mansouri, B., 2011, "3D Displacement Field Extraction using INSAR - Case Study: Bam Fault", *Journal of Physics of Earth and Space (in Farsi)*, Vol. 37, #3, 1390.

Shah Hosseini, R., Entezari, I., Homayouni, S., Motagh, M., and Mansouri, B., 2011, "Classification of Polarimetric SAR Images Using Support Vector Machines", *Canadian Journal of Remote Sensing*, Vol 37, No. 2, pp 1220-233, 2011

Mansouri, B., Ghafory-Ashtiany, M., Amini-Hosseini, K., Nourjou, R., and Mousavi, M., 2010, "Building Seismic Loss Model for Tehran", *Earthquake Spectra, Journal of Earthquake Engineering Research Institute (EERI)*, Vol. 26, Issue 1, pp153-168, Oakland, CA.

Amini-Hosseini, K., Jafari, M. K., Hosseini, M., Mansouri, B., and Hosseinioon S., 2009, "Development of urban planning guidelines for improving emergency response capacities in seismic areas of Iran", *Disasters, the Journal of Disaster Studies, Policy and Management*, Vol. 33, No: 4, Oct. 2009.

Mansouri, B., and Amini-Hosseini, K., 2007, "Methods for Seismic Risk and Quick Loss Estimation", *Research Bulletin of Seismology and Earthquake Engineering*, IIEES.

Mansouri, B., Shinozuka, M., Huyck, C. K., and Houshmand, B., 2005, "Earthquake-Induced Change Detection in Bam, Iran, by Complex Analysis Using Envisat ASAR Data", *Earthquake Spectra, Earthquake Engineering Research Institute (EERI), Special Issue 1, Volume 21, S275*, Oakland, CA.

Adams, B. J., Mansouri, B., and Huyck, C. K., 2005, "Streamlining Post-Earthquake Data Collection and Damage Assessment in Bam, Iran, Using VIEWS (Visualizing Impacts of Earthquakes With Satellites)", *Earthquake Spectra, Earthquake Engineering Research Institute (EERI), Special Issue 1, Volume 21, S213*, Oakland, CA.

Eguchi, R. T., and Mansouri, B., 2005, "Use of Remote Sensing Technologies for Building Damage Assessment after the 2003 Bam, Iran, Earthquake – Preface to Remote Sensing Papers", *Earthquake Spectra, Earthquake Engineering Research Institute (EERI), Special Issue 1, Volume 21, S207*, Oakland, CA.

Shinozuka, M., Ghanem, R., Houshmand, B., and Mansouri, B., 2000, "Damage detection in urban areas by SAR imagery", *Journal of Eng. Mech. ASCE 2000*, pp 769-777.

#### **CONFERENCE RESEARCH PAPERS**

M. Naserkhaki, A. Vasseghi, and B. Mansouri, 2019, "Analytical Modeling of Precast Concrete Grouted Beam-Column Joints Under Cyclic Load", 8<sup>th</sup> International Conference on Seismology and Earthquake Engineering (SEE8), November 11-13, 2019, Tehran, Iran.

B. Esmailzadeh Hakimi, B. Mansouri, and M. Ghafory-Ashtiany, 2019, "Power Network Seismic Reliability Analysis by Simplified Parallel and Series Systems Concept", 8<sup>th</sup> International Conference on Seismology and Earthquake Engineering (SEE8), November 11-13, 2019, Tehran, Iran.

Sh. Mousavi, and B. Mansouri, 2019, "Rapid Building Damage Mapping by Optical Satellite Images", 8<sup>th</sup> International Conference on Seismology and Earthquake Engineering (SEE8), November 11-13, 2019, Tehran, Iran.

S. Rouintan, A. Vasseghi, and B. Mansouri, 2019, "Analytical Modeling of Self-Centering Dual Shell Bridge Column", 8<sup>th</sup> International Conference on Seismology and Earthquake Engineering (SEE8), November 11-13, 2019, Tehran, Iran.

Shahbazi, P., Mansouri, B., and Ghafory-Ashtiany, M., 2019, " Seismic Risk Map of Iran Residential Building Stock ", 2019, 10th Conference on the international society for Integrated Disaster Risk Management (IDRiM), October 2019, Nice, France.

Shahbazi, P., Mansouri B., Ghafory-Ashtiany, M., 2016, "Need for a Seismic Risk Hedging Instrument for Iran", 2016, 7th International Conference on Integrated Disaster Risk Management (IDRiM), Disasters and Development: Towards a Risk Aware Society, 1 - 3 October 2016, Isfahan-Iran.

Esmailzadeh Hakimi, B., Mansouri B., Ghafory-Ashtiany, M., 2016, "National Electrical Network Reliability Concerns and Code Development", 7th International Conference on Integrated Disaster Risk Management (IDRiM), Disasters and Development: Towards a Risk Aware Society, 1 - 3 October 2016, Isfahan-Iran.



Mansouri, B., and Ghafory-Ashtiany, M., 2016, "Developing an Integrated Earthquake Risk Model for Mashhad-IRAN", 7th International Conference on Integrated Disaster Risk Management (IDRiM), Disasters and Development: Towards a Risk Aware Society, 1 - 3 October 2016, Isfahan-Iran.

Kiani, A., Mansouri, B., and Sarvghad-Moghadam, A., 2015, "Vulnerability Assessment of A 3-Story Steel Braced Frame with Khorjini Connections and Infills in Tehran", *SEE7 conference, May 2015, IIEES- Tehran.*

Mansouri, B., Hamednia, Y., and Amini-Hosseini, K., 2015, "A Soft Computing Method for Automated Damage Mapping Using VHR Imagery", *SEE7 conference, May 2015, IIEES- Tehran.*

Mansouri, B., and Kiani, A., and Govahi, N., 2015, "Developing A GIS-Based Model for Road Blockage Assessment", *SEE7 conference, May 2015, IIEES- Tehran.*

Mansouri, B., and Mostafazadeh, M., 2015, "Presenting an Object-Oriented Method for Building Extraction and Estimating the Damage by ANN Algorithm using VHR Data", *SEE7 conference, May 2015, IIEES- Tehran.*

Tafty, M., Amini-Hosseini, K., Mansouri, B., Ansari, A., Ebrahimian, Z., 2015, "Developing Earthquake Damage and Casualty Assessment Model", *SEE7 conference, May 2015, IIEES- Tehran.*

Mansouri, B., and Mostafazadeh, M., 2015, "Object-Oriented Building Extraction Using VHR Optical Imagery and Seismic Damage Detection Using textural analysis and ANN", *BESE (journal of science and earthquake engineering in Farsi), Year 1, Vol. 1 Spring 2015.*

Erdik, M., Giardini, D., Lodi, S., Mansouri, B., Al-Nimry, H., Tseretelli, N., Hovhannisyan, G., Chrysostomu, C., El-Khoury, R., Akhundov, A., Demircioglu, M., Sesetyan, K., and Tuzun, C., 2012, "Seismic Risk Assessment in the Middle East and Caucasus: EMME (Earthquake Model of Middle East) Project", *15th World Conference on Earthquake Engineering, Lisbon, Portugal.*

Mansouri, B., and Kiani, A., 2011, "Development of Structural Fragility Curves Considering the Site Condition for Tehran", *6th International Conference on Seismology and Earthquake Engineering – SEE6, paper#: UR 11322 - May 16-18, 2011, Tehran, Iran.*

Saradjian, M.R., Vajedian, S., and Mansouri, B., 2011, "SAR-based indices analysis for damage assessment due to earthquake", *6th International Conference on Seismology and Earthquake Engineering – SEE6, paper#: AT 11474 - May 16-18, 2011, Tehran, Iran.*

Karimzadeh, S., Mansouri, B., Osmanoglu, B., and Djamour, Y., 2011, "Application of Differential SAR Interferometry (DINSAR) for Interseismic Assessment of North Tabriz Fault, Iran", *presented in ICCVAF, International Conference on Urban Construction in The Vicinity of Active Faults, Sept. 3-5, 2011, Tabriz-Iran*

Karimzadeh, S., Mansouri, B., Aslanzadeh, R. A., and Asadi, S., 2011, "Usability of ADORE console in DORIS interferometric software, case study: L'Aquila earthquake Mw=6.3 (2009)", *presented in ICCVAF, International Conference on Urban Construction in The Vicinity of Active Faults, Sept. 3-5, 2011, Tabriz-Iran*

- Mansouri, B. Shinozuka, M., Entezari, I., and Motagh, M., 2010, "Fully Polarimetric SAR Parameters and Correlation with Target-Sensor Orientation and Building Height" ", *8th International Workshop on Remote Sensing for Disaster Management - September 30 to October 1, 2010, Tokyo, Japan.*
- Entezari, I., Mansouri, B., and Motagh, M., 2010, "Classification of Fully Polarimetric SAR Satellite Data Using Genetic Algorithm and Neural Networks", *8th International Workshop on Remote Sensing for Disaster Management - September 30 to October 1, 2010, Tokyo, Japan.*
- Mansouri, B., Entezari, I., and Motagh, M., 2010, "On The Relation Between Target-Sensor Orientation and SAR Polarimetric Parameters", *World Engineering Congress 2010, 2-5 August 2010, Kuching, Sarawak, Malaysia.*
- Entezari, I., Mansouri, B., and Motagh, M., 2010, "Supervised Classification of Fully Polarimetric SAR Satellite Data: A Genetic Algorithm and Neural Networks Approach", *World Engineering Congress 2010, 2-5 August 2010, Kuching, Sarawak, Malaysia.*
- Mansouri, B., and Ghafory-Ashtiany, M., 2009, "Advancements in Urban Seismic Risk Modeling and Quick Loss Estimation for Iran", *Improving Earthquake Mitigation through Innovations and Applications in Seismic Science, Engineering, Communication, and Response, Proceedings of a U.S.-Iran Seismic Workshop, June 29-July 1, 2009, Irvine, California.*
- Shah Hosseini, R., Entezari, I., Homayouni, S., and Mansouri, B., 2009, "Classification of Polarimetric SAR Images Using Support Vector Machines", *30<sup>th</sup> Canadian Symposium on Remote Sensing, June 22-25, Lethbridge Alberta Canada.*
- Mansouri, B., and Ghafory-Ashtiany, M., 2008, "Seismic Risk Modeling and Quick Loss Estimation in Urban Areas using GIS and Remote Sensing Technologies", *Keynote Lecture and Paper, First International Conference on Remote Sensing Techniques in Disaster Management and Emergency Response in the Mediterranean Region, 22-24 Sept., Zadar, Croatia.*
- Mansouri, B., Amini-Hosseini, K., and Nourjou, R., 2008, "Seismic Human Loss Estimation in Tehran using GIS", *14<sup>th</sup> World Conference on Earthquake Engineering, Beijing, China.*
- Mansouri, B., and Nourjou, R., 2008, "Simplified SAR Simulation for Remote Sensing Urban Damage Assessment", *14<sup>th</sup> World Conference on Earthquake Engineering, Beijing, China.*
- Mansouri, B., Nourjou, R., and Amini-Hosseini, K., 2008, "Comprehensive GIS-based Solution for Road Blockage due to Seismic Building Collapse in Tehran", *14<sup>th</sup> World Conference on Earthquake Engineering, Beijing, China.*
- Amini-Hosseini, K., Hosseini, M., and Mansouri, B., 2008, "Capacity Development for Rescue and Relief Activities in Urban Areas using Experiences of Iran Earthquake", *14<sup>th</sup> World Conference on Earthquake Engineering, Beijing, China.*
- Mansouri, B., Amini-Hosseini, K., Nourjou R., and Shinozuka, M., 2008, "Parcel-based Damage Detection using SAR Data", *6<sup>th</sup> International Workshop on Remote Sensing for Disaster Applications, Pavia, Italy.*

Mansouri, B., Mousavi, M., Amini-Hosseini, K., and Shinozuka, M., 2008, "Parcel-based Damage Detection using VHR Optical Data", *6<sup>th</sup> International Workshop on Remote Sensing for Disaster Applications*, Pavia, Italy.

Mansouri, B., and Ghafory-Ashtiany, M., 2008, "Estimating City-wide Seismic Building Loss and Road Network Blockage for Tehran", *International Disaster and Risk Conference*, IDRC, Davos, Switzerland.

Mansouri, B., Shinozuka, M., and Nourjou, R., 2007, "SAR Remote Sensing for Urban Damage Assessment for Tehran", *5<sup>th</sup> International Workshop on Remote Sensing for Disaster Response (Modeling Urban Environments)*, Washington DC.

Mansouri B., and Ghafory-Ashtiany, M., 2007, "Application of Remote Sensing and GIS techniques in Seismic Risk Management of Tehran", *5th Conference on Seismology and Earthquake Engineering - SEE5*, paper # ER18, Tehran, Iran.

Shirzaei M., and Mansouri, B., 2007, "Quickbird Satellite Images as a Tool for Automatic Damage Detection, using Wavelet Transform", *5<sup>th</sup> Conference on Seismology and Earthquake Engineering - SEE5*, Poster #: P102, Tehran, Iran.

Mansouri, B., 2006, "Remote Sensing and GIS Applications for Urban Risk and Disaster Management for Tehran", *4<sup>th</sup> International Workshop on Remote Sensing for Disaster Response (Technology application and deployment for disaster management)*, Cambridge, UK.

Shirzaei, M., Mansouri, B., and Shinozuka, M., 2006, "Multiresolution Analysis of Satellite Optical Images for Damage Detection using Wavelet Transform", *4<sup>th</sup> International Workshop on Remote Sensing for Disaster Response (Optically-based techniques for disaster management)*, Cambridge, UK.

Mansouri, B., and Shinozuka, M., 2006, "Systematic Progress in Earthquake Change Detection in Built Environment Using Satellite Data: From Izmit(1999) to Bam(2003)", *First International Conference on Integrated Natural Disaster Management – INDM 2006 – Tehran*.

Mansouri, B., and Shinozuka, M., 2005, "SAR image calibration by urban texture: Application to the BAM earthquake using Envisat satellite ASAR data", *3rd International Workshop on Remote Sensing for Post-Disaster Response*, Chiba, Japan.

Mansouri, B., Shinozuka, M., Huyck, C., Houshmand, B., 2004, "SAR complex data analysis for change detection for the BAM Earthquake using Envisat satellite ASAR data", *2<sup>nd</sup> International Workshop on Remote Sensing for Post-Disaster Response*, Newport Beach, California.

Loh, K., Shinozuka, M., Mansouri, B., and Ghanem, R., 2004, "Structural Damage Detection and Identification Using the Synthetic Aperture Radar (SAR)", *17<sup>th</sup> ASCE Engineering Mechanics Conference, Structural Health Monitoring I, Dynamics Section*, University of Delaware.

Adams, B., Huyck, C., Mansouri, B., Eguchi, R., Shinozuka, M., 2002, "Post-Disaster Bridge Damage Assessment", *Proceedings of the Joint ISPRS and TRM Conference*, Denver.

Huyck, C., Mansouri, B., Eguchi, R. T., Houshmand, B., Castner, L. L., and Shinozuka, M., 2002, "Earthquake Damage Detection Algorithms Using Optical and ERS-SAR stellite Data: Application to

the August 17, 1999 Marmara, Turkey Earthquake”, 7<sup>th</sup> *National US Conference on Earthquakes Engineering*, Boston, Massachusetts.

Mansouri, B., Huyck, C., Houshmand, B., Castner, L., Shinozuka, M., and Eguchi, R., 2002, “Earthquake Damage Detection Algorithms Using Optical and ERS-SAR satellite Data: Application to Marmara, Turkey, Earthquake and the Town of Golcuk”, , scheduled for *NSF-TUBITAK, Turkey-Taiwan Earthquakes Grantee workshop*, Antalya, Turkey.

Mansouri, B., Houshmand, B., and Shinozuka, M., 2001, “Building change/damage detection in Seymen-Turkey using ERS SAR data”, *Proceedings of SPIE 2001, 8<sup>th</sup> Annual International symposium on Smart Structures and Materials*, Newport Beach, CA, Spie paper number: 4330-03.

Eguchi, R. T., Houshmand, B., Huyck, C. K., Mansouri, B., Matsuoka, M., Shinozuka, M., Yamazaki, F., Ulgen, S., 2000, “Using Advanced Technologies to Conduct Earthquake Reconnaissance After the 1999 Marmara Earthquake”, 2<sup>nd</sup> *Workshop on Advanced Technologies in Urban Earthquake Disaster Mitigation*, DPRI, Kyoto University, Uji, Kyoto, Japan.

Shinozuka, M., Mansouri, B., Mizushina, S., Sugiura, M., Ito, S., Adachi, A., Watanabe, T., 2000, “Wireless Supervisory Control and Data Acquisition for Assessment of Lifeline Seismic Performance”, *Institute of Electronics, Information and Communication Engineers, IEICE 2000 general conference*, Hiroshima, Japan.

Shinozuka, M., Ghanem, R., Houshmand, B., and Mansouri, B., 2000, “Feasibility of damage/change detection in civil structures by SAR imagery: Proof of concept study using SAR simulation”, *Proceedings of SPIE 2000 Conference on Smart Structures and Materials, Spie Vol. 3988, p.165-175*, Newport Beach, California.

Anderson, J. C., Duan, X., Yin, Z., and Mansouri, B., 1997, “Cyclic behavior of high strength concrete joints”, *High-Strength Concrete in Seismic Regions, Proceedings of Structures Congress XV, Building to Last, ASCE conference, pp 1011-1015*, Portland, Oregon.