

Curriculum Vitae (CV)

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General Information

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Education

- 1- Post degree certificate, "Disaster Risk Management of Cultural Heritage, Ritsumeikan University Kyoto, Japan, 2013
- 2- Post degree certificate, "Disaster mitigation in mega Urban earthquakes", University of Kobe, Kobe, Japan, 2004
- 3- Post degree certificate, "Dynamic Behavior of Rock Joints", University of Grenoble, Grenoble, France, 2002
- 4- Ph.D. in Engineering Geology, Tarbiat Modarres University, Tehran, Iran, 2002
- 5- M.Sc. in Engineering Geology, Tarbiat Modarres University, Tehran, Iran, 1993
- 6- B.Sc. in Geology, Shahid Beheshti University, Tehran, Iran, 1990

Professional Career

2015-Now: Director of Risk Management Research Center, IIEES
2014-2015: Head of Urban and Regional Studies Dept., IIEES
2015: Co-Chair of 7th International Conference on Seismology and Earthquake Engineering (SEE7), Tehran, Iran
2006-2014: Director of Risk Management Research Center, IIEES
2004 - 2006: Head of Urban and Regional Planning Research Dept., IIEES
2003 - 2010: Advisor to the president of Tehran Disaster Mitigation and Management Organization, Tehran Municipality

Publications

Some of the Scientific Reports/Books

1. K. Amini Hosseini, H. Motamed et al., Need Assessment and Developing Early Recovery Plan for 4 Affected Provinces by 2019 Floods, UNDP Project, 2019;
2. K. Amini Hosseini, M. Hosseini and A. Chavoshy, Modeling of Earthquake resilience in urban road networks, IIEES Project, 2019;
3. K. Amini Hosseini and M. Ghayamghamian, Disaster Risk Management Master Plan for Karaj City, Karaj Municipality Project, 2018;

4. K. Amini Hosseini, M. Ghayamghamian, B. Mansouri, and Y. Izadkhah, Disaster risk management aspects of Sarpol-e Zahab, Iran Earthquake, Reconnaissance Report, 2017;
5. Z. Ebrahimian, K. Amini Hosseini, K. and M. Jafari, Evaluation of possible usage of acoustic emission for earthquake prediction, IIEES Project, 2017;
6. K. Amini Hosseini, M. Ghayamghamian, B. Mansouri, and M. Hajibabaei, A new model for safety assessment of urban fabrics in earthquake prone zones, IIEES Project, 2016;
7. B. Mansouri, K. Amini Hosseini, A. Sarvghad and A. Kiani, Developing fragility curves for routine buildings in Tehran, IIEES Project, 2016;
8. M. Ghayamghamian, K. Amini Hosseini, K. and R. Movahed, Peak Ground Acceleration amplification in small basin, IIEES Project, 2016;
9. K. Amini Hosseini, Socio-economic impacts and consequences of earthquake, Iran's perspectives, Book Chapter, Handbook of public health in natural disasters, Wageningen Academic Publishers, 2015;
10. Z. Pooyan and K. Amini Hosseini, Evaluation of challenges in emergency sheltering during the recent earthquakes in Iran, IIEES Project, 2015;
11. K. Amini Hosseini, Developing urban growth criteria in earthquake prone zones, IIEES Project, 2014;
12. K. Amini Hosseini and B. Mansouri, Socio-economic impacts of earthquakes, GEM-EMME Project, 2013;
13. B. Mansouri and K. Amini Hosseini, Seismic risk assessment in Iran, GEM-EMME Project, 2013;
14. K. Amini Hosseini et al., Determination of indices and criteria of urban safety against earthquakes, IIEES Project, 2013;
15. B. Mansouri, K. Amini Hosseini and N. Govahi, Design and development of a mobile GIS system for coordination emergency tasks and field survey in Iran, IIEES Project, 2012;
16. K. Amini Hosseini, B. Erkan and Y. Tanaka, Practical guidelines for urban areas development in seismic prone countries, Kobe University Project, 2011;
17. B. Mansouri, M. Ashtiany and K. Amini Hosseini et al., Seismic damage evaluation in urban areas using GIS and optical/radar satellite images, IIEES Project, 2010;
18. K. Amini Hosseini and M. Hosseini, Establishment of emergency response plan for the first 72 hours after an earthquake in Tehran, Japan International Cooperation Agency and Tehran Disaster Mitigation and Management Organization, GED – CR (10) 010-019, JICA Project, 2010;
19. K. Amini Hosseini et al., Analyzing the existing legal and institutional arrangement for disaster management in Iran, The World Bank Project, 2009;
20. K. Amini Hosseini et al., Analysis the effectiveness of existing disaster management system with respect to 4 major earthquakes in Iran, The World Bank Project, 2009;
21. K. Amini Hosseini et al., Developing guidelines for disaster management reform and improvement involving best practices, The World Bank Project, 2009;
22. K. Amini Hosseini and M. Jafari, Evaluation of sinkhole hazards considering earthquake

- impacts, IIEES Project, 2008;
23. M. Jafari, K. Amini Hosseini et al., Earthquake Studies in Tehran Master Plan, Tehran Municipality Project, 2005;
 24. K. Amini Hosseini, M. Ashtinay and M. Jafari, Earthquake risk mitigation policies in Iran, IIEES Project, 2004;
 25. M. Hosseini, K. Amini Hosseini, et al., The Comprehensive Master Plan Study on Urban Seismic Disaster Prevention and Management for Tehran, Japan International Cooperation Agency and Tehran Disaster Mitigation and Management Organization, GE-JR-04-039, JICA Project, 2004;
 26. K. Amini Hosseini, M. Mahdaviifar and M. Keshavarz, Geological instabilities associated with Bam Earthquake of 2003, IIEES Project, 2003.

Some of the Research Papers

1. E. Firuzi, A. Ansari, K. Amini Hosseini and M. Rashidabadi, Probabilistic earthquake loss model for residential buildings in Tehran, Iran to quantify annualized earthquake loss, *Bulletin of Earthquake Engineering*, Springer, 2019;
2. Aslani, F., K. Amini Hosseini and A. Fallahi, Physical and social aspects of resilience framework (A case study on Keshavarz neighborhood, district 6 of Tehran), *Journal of Environmental Hazards Management*, DOI: 10.22059/jhsci.2019.278000.455, 2019;
3. A. Chavoshy, K. Amini Hosseini and M. Hosseini, Resiliency Cube, A new approach for parametric analysis of earthquake resiliency in urban road networks, *International Journal of Disaster Resilience in the Built Environment (IJDRBE)*, Emerald; 2018;
4. R. Robat Mili, K. Amini Hosseini, K. and Y. Izadkhah, Developing a Holistic Model for Earthquake Risk Assessment and Disaster Management Interventions in Urban Fabrics, *International Journal of Disaster Risk Reduction (IJDRR)*, Elsevier, 2018;
5. E. Firuzi, A. Ansari, M. Rashidabadi and K. Amini Hosseini, Developing Ground Motion Shaking Map for Sarpol-e Zahab, Iran (2017) Earthquake, *Journal of Seismology and Earthquake Engineering (JSEE)*, 2018;
6. F. Aslani and K. Amini Hosseini, Resilience Models; concepts, indicators and frameworks, *TDDMMO Bulletin*, Tehran, 2017;
7. M. Fallah Tafti, K. Amini Hosseini, E. Firouzi, B. Mansouri, and A. Ansari, Ranking of GMPEs for Seismic Hazard Analysis in Iran Using LH, LLH and EDR Approaches, *Journal of Seismology and Earthquake Engineering (JSEE)*, 2017;
8. F. Aslani and K. Amini Hosseini, Social Resilience at Community Level, *Abadi Journal (In Persian)*, 2016;
9. A. Ansari and K. Amini Hosseini, Broadband seismic network of Iran, *Seismological Research Letters (SRL)*, SSA, 2014;
10. K. Amini Hosseini, M. Hosseini and Y. Izadkhah, Main Challenges on Community-based Approaches in Earthquake Risk Reduction: Case study of Tehran, Iran, *International Journal of Disaster Risk Reduction (IJDRR)*, Elsevier, 2014;
11. B. Mansouri and K. Amini Hosseini, Development of Residential Building Stock and

- Population Databases and Modeling the Residential Occupancy Rate for Iran, *Natural Hazards Review (ASCE)*, 2014;
12. M. Hajibabae, K. Amini Hosseini, and M. R. Ghayamghamian, Earthquake risk assessment in urban fabrics based on physical, socioeconomic and response capacity parameters (a case study: Tehran city), *Natural Hazard*, Springer, 2014;
 13. B. Mansouri, A. Kiani and K. Amini Hosseini, A Platform for Earthquake Risk Assessment in Iran, Case Studies: Tehran Scenarios and Ahar-Varzeghan Earthquake, *Journal of Seismology and Earthquake Engineering (JSEE)*, 2014;
 14. H. Motamed, B. Khazai, M. Ghafory-Ashtiany and K. Amini Hosseini, An automated model for optimizing budget allocation in earthquake mitigation scenarios, *Natural Hazards*, Springer, 2014;
 15. K. Amini Hosseini, Z. Pooyan and S. Hosseinioon, An investigation on socio-economic aspects of two earthquakes in Iran, *Disasters*, Wiley, 2013;
 16. K. Amini Hosseini and M. Hosseini, A survey on evacuation planning and its challenges for potential earthquake in Tehran, *International Journal of Disaster Resilience in the Built Environment (IJDRBE)*, Emerald, 2013;
 17. M. Hajibabae, K. Amini Hosseini and R. Ghayamghamian, A New Method for Assessing the Seismic Risk of Urban Fabrics in Iran, *Journal of Seismology and Earthquake Engineering (JSEE)*, 2013;
 18. B. Mansouri, and K. Amini Hosseini, Development of Residential Building Stock and Population Databases and Modeling, *Natural Hazards Review*, ASCE, 2012;
 19. K. Amini-Hosseini and S. Hosseinion, Evaluation of recent developments in laws and regulations for earthquake risk mitigation and management in Iran, *Risk, Hazards and Crisis in Public Policy*, DeGruyter; 2012
 20. K. Amini Hosseini and M.R. Ghayamghamian, A survey on challenges in reducing the impacts of geological hazards associated with earthquakes in Iran, *Natural Hazards*, Springer, 2012;
 21. H. Motamed, M. Ashtiany, B. Khazai and K. Amini Hosseini, An automated model for optimizing budget allocation in earthquake mitigation scenarios, *Natural Hazard*, Springer, 2012;
 22. F. Pellet, M. Keshavarz and K. Amini Hosseini, Mechanical damage of a crystalline rock having experienced ultra high deviatoric Stress up to 1.7 GPa, *International Journal of Rock Mechanics and Mining Sciences*, Elsevier, 2011;
 23. Y. Izadkhah and K. Amini Hosseini, An evaluation of disaster preparedness in four major earthquakes in Iran, *JSEE*, 2010;
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 25. M. Ghafouri Ashtiyani, B. Mansouri, K. Amini Hosseini, R. Nourjou and M. Mousavi, Building Seismic Loss Model for Tehran using GIS, *Earthquake Spectra*, EERI, 2009;
 26. K. Amini Hosseini, M. Hosseini, M. Jafari and S. Hosseinioon, Recognizing of vulnerable urban fabrics in earthquake prone areas; Case study: Tehran Metropolitan, *JSEE*, 2009;

27. F. Pellet, K. Amini Hosseini, M. Jafari, M. R. Mahdaviifar, M. Keshavarz Bakhshayesh, and F. Zohra Zerfa, Geotechnical Performance of Qanats during the 2003 Bam, Iran, Earthquake, Earthquake Spectra, EERI, 2005;
28. K. Amini Hosseini, M. R. Mahdaviifar and M. Keshavarz Bakhshayesh, Geotechnical Instabilities Occurred during the Bam Earthquake of 26 December 2003, JSEE, 2004;
29. M. Jafari, F. Pellet, M. Boulon and K. Amini Hosseini, Experimental Study of Mechanical Behaviour of Rock Joints Under Cyclic Loading, Rock Mechanics and Rock Engineering, 2004;
30. M. Jafari, K. Amini Hosseini, F. Pellet, M. Boulon and O. Buzzi (2003) Evaluation of Shear Strength of Rock Joints Subjected to Cyclic Loading, Soil Dynamics and Earthquake Engineering, 2003.

Some of the Published and Conference Papers

1. S. Azimi, K. Amini Hosseini and H. Motamed, Direct economic loss due to casualties of earthquake, 5th National Congress of Civil Engineering, Tehran, Iran, 2018;
2. K. Amini Hosseini, Safe schools, resilient communities: An essential approach for promoting public participation in EQ risk management Co-designing Disaster Risk Reduction Solution, ISDR, 2017;
3. Y.O. Izadkhah and K. Amini Hosseini. "Nationwide earthquake and safety drills in Iran, GADRRRES Comprehensive School Safety Policy Case Studies Series, 2017;
4. K. Amini Hosseini, Renovation, rehabilitation and capacity building of schools in Iran, ISDR Global Platform Conference, Cancun, Mexico, 2017;
5. K. Amini Hosseini, Renovation, Promoting community based earthquake risk reduction and resilience activities in Iran, Sixteenth World Conference on Earthquake Engineering, Santiago, Chile, 2017;
6. Y. Izadkhah and K. Amini Hosseini, Executive policies for improving local participation and networking in risk management, Seventh International Conference on Integrated Disaster Risk Management (IDRIM), Isfahan, Iran, 2015;
7. A. Chavoshi, K. Amini Hosseini and M. Hosseini, Necessity of introducing the resilience framework to the urban road network throughout earthquake, Seventh International Conference on Integrated Disaster Risk Management (IDRIM), Isfahan, Iran, 2015;
8. M. Atrachali, M. Ghafari-Ashtiany and K. Amini Hosseini, A framework for urban seismic resilience assessment, case study of two districts in Tehran, Seventh International Conference on Integrated Disaster Risk Management (IDRIM), Isfahan, Iran, 2015;
9. K. Amini Hosseini and F. Pellet, Evaluation of the Effectiveness of Risk Reduction Measures for EQ Associated Geo-Hazards in Tehran 7th Int. Conf. on Seismology and earthquake Engineering (SEE7), Tehran, Iran, 2015;
10. S. Asadzadeh, K. Amini Hosseini and M. Hosseini, Evaluation of the relevant parameters affecting the vulnerability of old urban historical and commercial fabrics, 7th Int. Conf. on Seismology and earthquake Engineering (SEE7), Tehran, Iran, 2015;
11. K. Amini Hosseini, F. Pellet and M. Keshavarz, A review on the impacts and causes of

landslides associated with recent earthquakes in Iran, EURock, Vigio, Spain, 2014;

12. K. Amini Hosseini, Earthquake risk management in historical and old urban fabrics, case study of Tehran bazaar, Second European Conference on Earthquake Engineering and Seismology, Istanbul, Turkey, 2014;
13. M. Keshavarz, K. Van Dang, K. Amini Hosseini and F. Pellet (2013) AE thresholds and compressive strength of different crystalline rocks subjected to static and dynamic loadings, 1st International Conference on Rock Dynamics and Applications, Lausanne, Switzerland, 2013;
14. K. Amini Hosseini, A review on challenges in mitigation the impacts of geological hazards associated with earthquake, 15th World Conference of Earthquake Engineering, Lisbon, Portugal, 2012;
15. Zh. Pooyan and K. Amini Hosseini, Earthquake emergency management: Policies for sound emergency response, 15th World Conference of Earthquake Engineering, Lisbon, Portugal, 2012;
16. K. Amini Hosseini and S. Hosseinioon, A survey on the parameters affecting the vulnerability of urban fabrics to earthquake in Tehran, 15th World Conference of Earthquake Engineering, Lisbon, 2012;
17. K. Amini Hosseini and M. Hosseini, Feasibility study on using community based approaches for earthquake risk reduction in Tehran, 15th World Conference of Earthquake Engineering, Lisbon, Portugal, 2012;
18. H. Motamed, M. Ashtiany and K. Amini Hosseini, An earthquake risk-sensitive model for spatial land-use allocation, 15th World Conference of Earthquake Engineering, Lisbon, Portugal, 2012;
19. M. Haji Babaii, K. Amini Hosseini and R. Ghayamghamian, A new method for assessing the seismic risk index of urban fabrics, 15th World Conference of Earthquake Engineering, Lisbon, Portugal, 2012;
20. H. Motamed, M. Ghafory-Ashtiany, K. Amini Hosseini and B. Khazai, Optimized Budget Allocation Model for Earthquake Mitigation in Urban Settlements, 15th World Conference of Earthquake Engineering, Lisbon, Portugal, 2012;
21. K. Amini Hosseini, A review on challenges and experiences in temporary housing and recovery in recent earthquakes of Iran, The 7th AIWEST Conference, Banda Aceh, Indonesia, 2012;
22. K. Amini Hosseini and Maziar Hosseini, Design of the Tehran earthquakes damage and loss estimation system, IRAN-US Workshop on earthquake engineering; Sharif University, 2012;
23. K. Amini Hosseini, Evaluation of the recognition methods for vulnerability assessment of old urban fabrics from seismic risk point, Sixth International Conference on Seismology and Earthquake Engineering, Tehran, Iran, 2011;
24. K. Amini Hosseini and M. Hosseini, The first evacuation map for potential earthquake in Tehran 14ECEE, Macedonia, 2010;
25. K. Amini Hosseini, Reducing Seismic Risk in Tehran Using Urban Development Plans International Disaster and Risk Conference IDRC Davos, 2010;
26. K. Amini Hosseini, Development of earthquake disaster mitigation and management master plan in Iran International Disaster and Risk Conference IDRC Davos, 2010;

27. K. Amini Hosseini, Establishment the first earthquake quick damage and loss estimation system in Tehran, European Seismological Commission 32nd General Assembly, ESC 2010 Montpellier, 2010;
28. K. Amini Hosseini and M. Hosseini, Public Participation in Risk Reduction and Preparedness - Case study: The Experience gained in Davam and other Projects in Tehran, IRAN-US Workshop on earthquake engineering; Sharif University, 2008;
29. K. Amini Hosseini and M. Hosseini, Improvement of emergency response capacity in Iran using the experiences of previous earthquakes, International Disaster and Risk Conference, IDRC Davos, 2008;
30. K. Amini Hosseini and M. Hosseini, Evaluation of Tehran Old Urban Areas Vulnerability to a Potential Earthquake and Recent Plans for Improvement, International Disaster and Risk Conference, IDRC Davos, 2008;
31. B. Mansouri R. Nourjou and K. Amini Hosseini, Parcel-based damage detection using SAR data, 6th International Workshop on Remote Sensing for Disaster Applications, 2008;
32. B. Mansouri, K. Amini Hosseini, Reza Nourjou and M. Shinozuka, Parcel-based damage detection using VHR data, 6th International Workshop on Remote Sensing for Disaster Applications, 2008;
33. K. Amini Hosseini, M. Jafari, and M. Hosseini, Seismic human loss estimation in Tehran using GIS, 14th world Conference on Earthquake Engineering (14WCEE), 2008;
34. K. Amini Hosseini, B. Mansouri and M. Hosseini, Capacity development for rescue and relief activities in urban areas using the experiences of Iran earthquake, 14th world Conference on Earthquake Engineering (14WCEE), 2008;
35. K. Amini Hosseini, R. Nourjou and B. Mansouri, Seismic human loss estimation in Tehran using GIS, 14th world Conference on Earthquake Engineering (14WCEE), 2008;
36. K. Amini Hosseini and M. Hosseini, Recent development in earthquake risk management plans and programs in Tehran, 14th world Conference on Earthquake Engineering (14WCEE), 2008;
37. B. Mansouri, K.Amini Hosseini and R. Nourjou, Comprehensive GIS-based solution for road blockage due to seismic building collapse in Tehran, 14th world Conference on Earthquake Engineering (14WCEE), 2008;
38. M. Keshavarz Bakhshayesh, F. Pellet and K. Amini Hosseini, Comparing the results of acoustic emission monitoring in Brazilian and Uniaxial Compression tests, 5th Asian Rock Mechanics Symposium -ARMS 5, 2008;
39. K. Amini Hosseini, Developing Earthquake Risk Management Master Plans in Mega Urban Areas, 3rd ECO International Conference on Disaster Risk Management, 2008;
40. K. Amini Hosseini, Development guidelines for disaster risk management in Tehran, Disaster reduction hyper-base, 2007;
41. K. Amini Hosseini and M. Hosseini, A review of Tehran Disaster Risk Management Master Plan: from theory to practice, Asia Megacities Forum, 2007;
42. K. Amini Hosseini, Recent developments in disaster risk management in Tehran, Workshop on Mitigation Strategy for Mega-Urban Earthquake Disaster, Kobe University, 2007;

43. K. Amini Hosseini, Future expectation on DRR Education and Training, Workshop on Mitigation Strategy for Mega-Urban Earthquake Disaster, Kobe University, 2007;
44. K. Amini Hosseini, Evaluation of old urban structures and emergency road networks vulnerabilities to a potential earthquake in Tehran, 5th Conference of Seismology and Earthquake Engineering (SEE5), 2007;
45. F. Pellet and K. Amini Hosseini, Variation of Acoustic Emission and Shear Wave Velocity of Lavasan Granite Under Uniaxial Compression Test, 5th Conference of Seismology and Earthquake Engineering (SEE5), 2007;
46. M. Jafari, K. Amini Hosseini, M. Keshavarz Bakhshayesh and F. Pellet, Analyse Des Degats Observees Dans Les Galeries D'Adduction D'Eaulors Du Seisme De Bam, Journées Nationales de la Géotechnique et de la Géologie de l'ingénieur, 2006;
47. K., Amini Hosseini, F. Pellet and M. Jafari, Shear strength reduction of rock joints due to cyclic loading, 13th World Conference on Earthquake Engineering Vancouver, B.C., Canada, 2004.