

Dr. Majid Mahood

-Assistant Professor of Seismology, Earthquake Prediction National Center.

International Institute of Earthquake Engineering and Seismology (IIEES), Tehran, Iran.

m.mahood@iiees.ac.ir

-Assistant Professor of Seismology, Islamic Azad University, (2010-214).

Nationality: Iran. Gender: Male

Date of Birth: 27/2/1978

Education:

Ph.D. Seismology, *IIEES*.

Ph.D. Thesis title: “Estimation of Coda and Body Waves Attenuation and Theoretical Attenuation Relationship for East-Central Iran”.

Supervisor: Dr. Hosseyn Hamzehloo.

Adviser: Dr. Mehdi Zare.

M.Sc. Geophysics, Seismology.

Thesis title: “Reservoir Induced Earthquakes, Karkheh Dam”.

Supervisor: Dr. Akkasheh.

International Training Course on Seismology, Strong Ground Motion and Seismic Waveform Modeling, Tehran 20-30 August 2006.

Work Experience:

-Working in the National Broadband Seismic Network of Iran, IIEES, for 6 month.

-Working in the Iranian Seismological Center, Institute of Geophysics, University of Tehran for 1 year.

Supervisor:

Supervisor of 16 M.Sc. Thesis.

Supervisor of 1 Ph.D. Thesis.

Adviser of 2 Ph.D. Thesis.

Teaching:

Signal Processing, Seismology, Advanced Seismology, Engineering Seismology, Advanced Mathematics, Seismic Risk Assessment, Elastic Wave Propagation.

ISI Papers:

1. “Estimation of Coda wave attenuation for East Central Iran”, **2009**, 13: 125-139. *Journal of Seismology*.
2. “ Modeling the strong ground motion and rupture characteristics of the March 31, 2006, Darb-e-Astane earthquake, Iran, using a hybrid of near field SH-wave and empirical Green’s function method” , **2009**, *Journal of Seismology*.
3. “Attenuation of high frequency P and S waves in the crust of the East-Central Iran”, **2009**, 179, 1669–1678 *Geophysical Journal International*.

4. **“Ground-Motion Attenuation Relationship for East Central Iran”**, **2012**, *Bulletin of the Seismological Society of America*, Vol. 102, No. 6, 1846-1859 (BSSA). .
5. **“Variation of Intrinsic and Scattering Attenuation of Seismic Waves with Depth in the Bam Region, East-Central Iran”**, **2011**, *Soil Dynamics and Earthquake Engineering*. 31, 1338–1346.
6. **“MATLAB programs for the synthetic models”**, **2013**, *Arab Journal Geoscience*, 6, 3853-3864.
7. **“Attenuation of High Frequency Seismic Waves in Eastern- Iran”**, **2014**, 171, *Pure Applied Geophysics*.
8. **“Prediction of Magnitude and Epicentral Distance from a Single Seismic Record: A Case Study of the Ahar-Varzaghan Earthquake”**, **2016**, 2(4) *International Journal of Geohazards and Environment*.
9. **Estimation of Quality Factor ($Q\beta$) Using Accelerograms of Ahar-Varzaghan Earthquakes, Northwestern Iran**, **2017**, 3(3) *International Journal of Geohazards and Environment*.
10. **“Attenuation of Ground Motion in Eastern Iran Based on Stochastic Finite-Fault Modeling”**, *Accepted, Soil Dynamics and Earthquake Engineering*.
11. **“Intrinsic and Scattering Seismic Attenuation in Eastern Iran”**, *Accepted, Pure Applied Geophysics*.
12. **“Variation of Intrinsic and Scattering Attenuation of Seismic Waves with Depth in the NW-Iran”**, prepared for *Geophysical Journal International*.
13. **Determination of fault parameters for the twin 2012 Ahar-Varzaghan Earthquakes using near-field SH-wave SGM data**, Submitted, *Pure Applied Geophysics*.

Conference Papers:

- “Karkheh Dam Reservoir-Induced Seismicity”** (5th ASC General Assembly, **2004**, Armenia)
- “Low Coda Q_c in the Zarand Region, East-Central of Iran”**, European Geosciences Union, 12-23 April 2007, Vienna, Austria (**EGU2007**).
- “ Estimation of coda wave attenuation for East of Central-Iran region using local earthquakes”**, 4th International Conference on Earthquake Geotechnical Engineering, 25-28 June **2007**, Thessaloniki, Greece (4ICEGE).
- “Coda Wave Attenuation for East of Iran”**, **2015**, *SEE5*, 5th International Conference of Seismology and Earthquake Engineering
- “Attenuation relationship based on observed and simulated records for East of Central Iran”**, 14th World Conference on Earthquake Engineering, Oct. 12-17, **2008** Beijing, China (14WCEE).
- “High frequency P and S waves’ attenuation in the crust of the East Central-Iran”**, 14th World Conference on Earthquake Engineering, Oct. 12-17, **2008** Beijing, China (14WCEE).
- “Weak-motion-based attenuation relationships for Kerman”**, 15th Geophysics Conference of Iran, **2012**.
- “Variation of intrinsic and scattering attenuation of seismic waves in the Bam region, East-Central Iran”**, 15th Geophysics Conference of Iran, **2012**.
- “Spectral Attenuation Characteristics of Strong Ground Motions in East Central Iran Using Theoretical Data”** **2013**, 7th International Conference on Case Histories in Geotechnical Engineering, Chicago.

“Variation of Intrinsic and Scattering Attenuation of Seismic Waves with Depth in the Bam Region, East-Central Iran”, 2013, 7th International Conference on Case Histories in Geotechnical Engineering, Chicago.

“Theoretical and Empirical Attenuation Relationship for EC-Iran”. 16th Geophysics Conference of Iran, 2014.

“Estimation of Strong Ground Motion Parameters of Initial Part of P-Wave for Early Warning Systems in the Azarbayjan Region”, 2015, SEE7, 7th International Conference of Seismology and Earthquake Engineering.

“Prediction of Magnitude and Epicentral Distance from a Single Seismic Record”, 18th Geophysics Conference of Iran, 2018.

“ESTIMATION OF MAGNITUDE AND EPICENTRAL DISTANCE FROM A SINGLE SEISMIC RECORD”, 16ECEE: 16th European Conference on Earthquake Engineering Thessaloniki, Greece 18-21, June, 2018.

“Estimation of Quality Factor Q_c and Q_s Using Accelerograms in the Tehran”, 16ECEE: 16th European Conference on Earthquake Engineering Thessaloniki, Greece 18-21, June, 2018.

Research Project:

- Temporal Variation of Q Factor and V_p/V_s Ratio Before and after Earthquakes.
 - Prediction of Magnitude and Epicentral Distance from a Single Seismic Record and it's comparison with the Brune Model.
 - Intermediate-Term Earthquake Forecasting for Iran Using Pattern Informatics Method.
 - Earthquake Magnitude Estimation by $\tau_p^{\max}$ Implications for Earthquake Early Warning, East-Iran.
 - Estimation of Strong Ground Motion Parameters of initial part of P-wave for Early Warning Systems.
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- Operator of Seismic Hazard and Risk Assessment for Ghazvin Regin Project.
 - Cooperator of Seismic Hazard and Risk Assessment for Mashhad Project (IIEES).

Interests:

Earthquake Forecast, Simulation of Strong Ground Motion, Seismic Hazard Assessment, Ground Motion Prediction Equations, Earthquake Early Warning Systems (EEWS).