

ALI MASSUMI

Ph.D., P.Eng.

Associate Professor in Structural Engineering

PERSONAL INFORMATION

- Marital status: Married
- Nationality: Iran
- Date of Birth: 1971
- Place of Birth: Arak

EDUCATION

- **Ph.D.;** Structural Eng., Tarbiat Modares University, Tehran, Iran (and University of Ottawa, Ottawa, Canada), 2004
Dissertation Title: *Estimation of Response Modification Factors for RC-MRF Structures, Emphasizing on the Effect of Overstrength and Redundancy*
- **M.Sc.;** Structural Eng., Tarbiat Modares University, Tehran, Iran, 1997
Thesis Title: *Experimental Study on Behavior of RC Frames Strengthened by Steel Bracings (Under Lateral Loads)*
- **B.Sc.;** Civil Eng., Bu-Ali Sina University, Hamedan, Iran, 1994

PROFESSIONAL EXPERIENCE

- Visiting Scholar, Department of Civil and Environmental Engineering, University of California, Los Angeles (UCLA), USA, 2013.
- Head of Civil Engineering Department, Kharazmi University (TMU), Tehran, Iran, 2010-2012.
- International Consultant, Regional Disaster Risk Reduction Project in South East Europe (RDRRP), UNDP, 2011.
- Head of Industrial Relations Bureau, Kharazmi University (TMU), Tehran, Iran, 2008-2009.
- Director, Seismicity and Seismology Studies for Qom-Isfahan High-Speed Railway, Metra Consulting Engineers, Tehran, Iran, 2008-2010.
- Director, Strengthening of Non-Structural Components against Earthquake in Four Hospitals in Gorgan, Golestan University of Medical Science, Gorgan, Iran, 2008-2009.
- Faculty Member, Kharazmi University (TMU), Tehran, Iran, Assistant Professor (2006-2012), Associate Professor (2012).

- Visiting Assistant Professor, Iran University of Science and Technology (IUST), Tehran, Iran, 2004-2006.
- Capacity Building Coordinator, Earthquake Emergency Recovery Project (EERP) (World Bank's Project), Tehran, Iran, 2004-2008.
- Visiting Researcher, Department of Civil Engineering, University of Ottawa, Ottawa, Canada, 2003.
- Head of Computer Department, Building and Housing Research Center (BHRC), 2000-2003.
- Researcher, Building and Housing Research Center (BHRC), 1997-2003 (Three Projects).
- Visiting Lecturer, Iran University of Science and Technology (IUST), Tehran, 2001.
- Member of Executive Committee, First International Conference on Concrete and Development, Building and Housing Research Center (BHRC), Tehran, Iran, 1997-2001.
- Visiting Lecturer, Bu-Ali Sina University, Hamedan, Iran, 1997 & 1999.
- Researcher and Head of Group, Natural Disaster Research Institute (NDRI), 1996-1997 (Two Projects).
- Working in Rail Way Research Center, Tehran, Iran, 1995-1996.
- Co-Op in Housing Investment Company, Arak, 1993.
- Co-Op in Arak Petrochemical Complex (ARPC Site), Arak, 1992.

PUBLICATIONS

BOOKS / Regulations (Author or Co-Author)

- *Reinforced Concrete Precast and Semi-precast Frame System (Investigation and Evaluation of Some New Building Systems for Residential Mass Construction)*, (2010), Building and Housing Research Center (BHRC), Publication No.: R-498, Tehran, Iran.
- *Twin (Double) Wall or Incorporated Shuttering Wall System (Investigation and Evaluation of Some New Building Systems for Residential Mass Construction)*, (2008), Building and Housing Research Center (BHRC), Publication No.: R-487, Tehran, Iran.
- *Large Panel System (Investigation and Evaluation of Some New Building Systems for Residential Mass Construction)*, (2008), Building and Housing Research Center (BHRC), Publication No.: R-489, Tehran, Iran.
- *Tilt-Up System (Investigation and Evaluation of Some New Building Systems for Residential Mass Construction)*, (2008), Building and Housing Research Center (BHRC), Publication No.: R-490, Tehran, Iran.
- *Tunnel Concrete Forming System (Investigation and Evaluation of Some New Building Systems for Residential Mass Construction)*, (2008), Building and Housing Research Center (BHRC), Publication No.: R-495, Tehran, Iran.

- *Code of Practice for Design of Reinforced and Un-reinforced Brick Buildings (Proposed Code)*, (2008), Building and Housing Research Center (BHRC), Publication No.: PN S-449, Tehran, Iran.
- *Estimation of Response Modification Factors for RC-MRF Structures*, (2006), Building and Housing Research Center (BHRC), Publication No.: R-436, Tehran, Iran.
- *Iranian National Building Code, Part 8: Design and Construction of Masonry buildings*, (2005), Ministry of Housing and Urban Development, Tehran, Iran.
- *Bam and Its Earthquake Teach Us*, (2004), Building and Housing Research Center (BHRC), Publication No.: 407, Tehran, Iran.
- *Strengthening of Reinforced Concrete Frames by Steel Bracings*, (2000 & 2003), Building and Housing Research Center (BHRC), Publication No.: R-331, Tehran, Iran.
- *Technical Identity of Reinforced Concrete and Masonry Buildings*, (1999), Housing Foundation (Natural Disaster Research Institute), Tehran, Iran.

PAPERS

REFEREED JOURNALS

[P]: in Persian

- Mohammadi, R., Massumi, A., Meshkat-Dini, A. (2014), Evaluation of Deterministic and Probabilistic Effects of Redundancy on Response Modification Factor for RC Moment Resisting Frames with Equal Lateral Resistance, *Sharif Journal of Science and Technology*, Sharif University of Technology, (Accepted). [P]
- Mohammadi, R., Massumi, A., Meshkat-Dini, A. (2014), Effects of Redundancy on Seismic Behavior of RC Moment Resisting Frames, *The Modares Journal of Civil Engineering*, Tarbiat Modares University, (Accepted). [P]
- Massumi, A., Jamalnejad, H., Ahmadi, M. (2014), Evaluation of Effective Parameters on Seismic Behavior of Tunnel-Form RC Buildings using Nonlinear Static Analysis, *Sharif Journal of Science and Technology*, Sharif University of Technology, (Accepted). [P]
- Massumi, A., Sarlak, N. (2014), Seismic Performance of Steel Moment Frames Based on their Importance According to Iranian Seismic Code, *Sharif Journal of Science and Technology*, Sharif University of Technology, (Accepted). [P]
- Massumi, A., Shekari, M., Ahmadi, M. (2014), Evaluation of Seismic Strengthening of Steel Braced Frames using Steel Shear Walls, *The Modares Journal of Civil Engineering*, Tarbiat Modares University, Vol. 14, No. 4, 65-78. [P]
- Massumi, A., Monavari, B. (2013), Energy based procedure to obtain target displacement of reinforced concrete structures, *Structural Engineering and Mechanics*, Vol. 48, No. 5, 681-695, Techno Press, (ISI). doi: 10.12989/sem.2013.48.5.681.

- Mansouri, M., Massumi, A., Shooshtari, M. (2013), Improving Performance of Structures Using Active Instantaneous Optimal Control, *Sharif Journal of Science and Technology*, Sharif University of Technology, Vol. 29-2, No. 2, 77-85. [P]
- Imashi, N., Massumi, A. (2013), Study on Displacement-Based and Force-Based Design Methods for Seismic Design of Essential Buildings, *Sharif Journal of Science and Technology*, Sharif University of Technology, Vol. 29-2, No. 1, 37-46. [P]
- Massumi, A., Absalan, M. (2013), Interaction between Bracing System and Moment Resisting Frame in Braced RC Frames, *Archives of Civil and Mechanical Engineering*, Vol. 13, No. 2, 260-268, Elsevier Ltd., (ISI). doi: 10.1016/j.acme.2013.01.004.
- Massumi, A., Moshtagh, E. (2013), A New Damage Index for RC Buildings Based on Variations of Nonlinear Fundamental Period, *The Structural Design of Tall and Special Buildings*, Vol. 22, No. 1, 50-61, John Wiley & Sons, Ltd. (ISI). doi: 10.1002/tal.656.
- Monavari, B., Massumi, A. (2012), Estimating Displacement Demand in Reinforced Concrete Frames Using Some Failure Criteria, *International Journal of Advanced Structural Engineering*, Vol. 4, Springer, Ltd. doi: 10.1186/2008-6695-4-4.
- Moshtagh, E., Massumi, A. (2011), Seismic Assessment of RC Buildings by Estimation of Effective Parameters on Seismic Behavior Using Non-Destructive Tests, *The Structural Design of Tall and Special Buildings*, Vol. 20, No. 7, 816-831, John Wiley & Sons, Ltd., (ISI). doi: 10.1002/tal.560.
- Zamanian, M.R., Massumi, A. (2011), Application of FRP in Rehabilitation of Concrete Bridges, *Civil and Retrofitting*, Vol. 5, No. 16, 32-37. [P]
- Imashi, N., Massumi, A. (2011), A Comparative Study of the Seismic Provisions of Iranian Seismic Code (Standard No. 2800) and International Building Code 2003, *Asian Journal of Civil Engineering (Building and Housing)*, Building and Housing Research Center, Vol. 12, No. 5, 579-596.
- Tabatabaiefar, H.R., Massumi, A. (2010), A simplified Method to Determine Seismic Responses of Reinforced Concrete Moment Resisting Building Frames under Influence of Soil-Structure Interaction, *Soil Dynamics and Earthquake Engineering*, Vol. 30, No. 11, 1259-1267, Elsevier Ltd., (ISI). doi: 10.1016/j.soildyn.2010.05.008.
- Kholdebarin, A.R., Massumi, A., Davoodi, M. (2009), Effects of Soil Improvement Using Cement Grouting on Seismic Bearing Capacity of Shallow Foundations under Vertical Ground Motions, *Journal of Engineering Geology*, Tarbiat Moallem University of Tehran, Vol. 3, No. 1, 523-542. [P]
- Fallah, A.A., Moghadam, A.S., Massumi, A. (2009), A Nonlinear Dynamic Based Redundancy Index for Reinforced Concrete Frames, *Journal of Applied Sciences (ISI)*, Vol. 9, No. 6, 1065-1073. doi: 10.3923/jas.2009.1065.1073.

- Massumi, A., Tasnimi, A.A., Kaveh, A. (2005), Prediction of Overstrength and Redundancy of RC-MRFs Using Incremental Lateral Loading, *International Journal of Engineering Sciences*, Iran University of Science and Technology (IUST), Tehran, Vol. 15, No. 5, 235-257. [P]
- Massumi, A. (1998), Strengthening of Reinforced Concrete Frames with Weak Column - Strong Beam Using Steel Bracing System, *Earthquake*, Iranian Earthquake Engineering Association, Vol. 2, No. 5, 10-13. [P]

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- Jalali Sangani, A., Massumi, A. (2014), Determination of Optimal Configuration for Diagrid Structural System with Angle Variation along the Height of the Buildings, *Proceedings of the 8th National Congress on Civil Engineering (8NCCE)*, Noshirvani University of Technology, Babol, Iran. [P]
- Yaghoubi, M., Massumi, A., Farahbod, F. (2013), Modeling a Hybrid Beam-Column Connection in Precast RC Structures, *Proceedings of the 2013 PCI Convention and National Bridge Conference (PCI-NBC 2013)*, Grapevine, Texas, USA.
- Jalali Sangani, A., Massumi, A. (2013), Determination of Optimal Angle and Its Effect in Diagrid Structural System, *Proceedings of the 7th National Congress on Civil Engineering (7NCCE)*, University of Sistan and Baluchestan, Zahedan, Iran. [P]
- Aghagholizadeh, M., Massumi, A. (2012), Relation between Dynamic Characteristics and Damage Index of RC-MRFs Using Non-Linear Incremental Dynamic Analyses, *Proceedings of the 15th World Conference on Earthquake Engineering*, Lisbon, Portugal.
- Gholami, F., Massumi, A. (2012), Interdependence between Ground Motion Parameters and Damage Criteria for RC Frames, *Proceedings of the 15th World Conference on Earthquake Engineering*, Lisbon, Portugal.
- Monavari, B., Massumi, A., Kazem, A.R. (2012), Estimation of Displacement Demand in RC Frames and Comparing with Target Displacement Provided by FEMA-356, *Proceedings of the 15th World Conference on Earthquake Engineering*, Lisbon, Portugal.
- Chavoshi, H., Kananipour, H., Massumi, A. (2012), Seismic Response of Barrel Vault Structure with 3D-Panel Prefabricated System Using Different Types of Seismic Analyses, *Proceedings of the 15th World Conference on Earthquake Engineering*, Lisbon, Portugal.
- Zifan, N., Massumi, A. (2012), Fire Damage Assessment in Reinforced Concrete Buildings using Post-fire Dynamical Behavior Analysis, *Proceedings of the International Symposium on Reliability Engineering and Risk Management (ISRERM'2012)*, Kanagawa University, Yokohama, Japan.

- Gholami, F., Massumi, A., Zafarani, H. (2012), Failure Prediction of RC Frames Under Earthquakes Using Principal Component Analysis, *Fifth International Conference on Engineering Failure Analysis (ICEFA V)*, The Hague, The Netherlands.
- Dehnamaki, V., Zafarani, H., Massumi, A. (2012), The Use of Logic-Trees in PSHA, *Proceedings of the 2nd National Conference on Disaster Management: The Role of New Technologies in Reducing the Vulnerability due to Disasters*, Tehran, Iran. [P]
- Rezaee, H., Massumi, A. (2012), Evaluation of Performance of RC Frames Subjected to Repeated Earthquakes or After Shocks, *Proceedings of the 2nd National Conference on Disaster Management: The Role of New Technologies in Reducing the Vulnerability due to Disasters*, Tehran, Iran. [P]
- Dehnamaki, V., Zafarani, H., Massumi, A. (2012), Seismic Hazard Curves for Zones with Different Seismicity Conditions in Iran, *Proceedings of the 15th Geophysics Conference of Iran*, Tehran, Iran. [P]
- Rahimzadeh, M., Massumi, A. (2012), Vulnerability Assessment of RC Moment Resisting Frames based on Nonlinear Period Elongation using Analytical Method, *Proceedings of the 9th International Conference on Civil Engineering (9ICCE)*, Isfahan University of Technology, Isfahan, Iran. [P]
- Rahimzadeh, M., Massumi, A. (2012), Comparison of Damage Indices for RC Moment Resisting Frames Based on Nonlinear Static Analyses, *Proceedings of the 9th International Conference on Civil Engineering (9ICCE)*, Isfahan University of Technology, Isfahan, Iran. [P]
- Abdollahi-Parsa, H., Massumi, A., Rezaee, H. (2011), Assessment of Vertical Seismic Loading for Near Field Earthquakes in NEHRP, UBC-97, ASCE and Comparison with Iranian Seismic Code (Standard No. 2800), *Proceedings of the Conference on Earthquake, Structure and Computational Methods (CESCM)*, Kerman, Iran. [P]
- Djalali, A., Massumi, A., Öhler, G., Castren, M., Kurland, L. (2011), Comparison of Safety Index in Iranian Hospitals, *Proceedings of the 17th World Congress on Disaster and Emergency Medicine (WCDEM2011)*, Beijing, China.
- Imashi, N., Massumi, A. (2011), Effects of Members' Reinforcement on Seismic Behavior of RC Framed Structures, *Proceedings of the 1st National Conference on Disaster Management: Earthquake and Vulnerability of Buildings and Lifelines*, Tehran, Iran. [P]
- Moshtagh, E., Massumi, A. (2011), A New Period-Based Damage Index for Seismic Assessment of RC Frames and its Verification, *Proceedings of the 6th International Conference on Seismology and Earthquake Engineering (SEE6)*, International Institute of Earthquake Engineering and Seismology (IIEES), Tehran, Iran.

- Imashi, N., Massumi, A. (2011), Seismic Design of Essential Buildings Using a New Design Approach Based on Displacement Control, *Proceedings of the 6th National Congress on Civil Engineering (6NCCE)*, Semnan University, Semnan, Iran. [P]
- Djalali, A.R., Massumi, A., Hosseinijenab, V., Ohlen, G., Castren, M., Kurland, L. (2010), Hospitals Safe from Earthquake: Risk Assessment and Developing a Hospital Disaster Management Plan, *Proceedings of the 6th European Congress on Emergency Medicine*, Swedish Society of Emergency Medicine (SWESEM), Stockholm, Sweden.
- Soltani, A.R., Massumi, A. (2010), Review of Application and Performance of Glass Fiber Reinforced Polymer (GFRP) for Increasing Shear Capacity of Reinforced Masonry Walls, *Proceedings of the 1st International Conference on Rural Settlements: Hosing & Fabric*, Housing Foundation, Tehran, Iran. [P]
- Soltani, A.R., Massumi, A. (2010), Behavior and Performance of Masonry Buildings in Recent Earthquakes in Iran, *Proceedings of the 1st International Conference on Rural Settlements: Hosing & Fabric*, Housing Foundation, Tehran, Iran. [P]
- Moshtagh, E., Massumi, A. (2010), Vulnerability Assessment of Reinforced Concrete Moment Resisting Frames in Different Levels of Damage, *Proceedings of the 5th National Congress on Civil Engineering (5NCCE)*, Ferdowsi University of Mashhad, Mashhad, Iran. [P]
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- Soltani, A.R., Massumi, A., Tabatabaiefar, H.R. (2010), Investigation of Structural Behavior of Precast and Semi-Precast Reinforced Concrete Frame as a Mass Construction System, *Proceedings of the International Conference on Lightweight Construction & Earthquake (ICLC)*, Shahid Bahonar University of Kerman, Kerman, Iran. [P]
- Mansouri, M., Massumi, A., Shooshtari, M. (2010), Effects of Active Control Systems on Performance-Based Design of Structures, *Proceedings of the International Conference on Lightweight Construction & Earthquake (ICLC)*, Shahid Bahonar University of Kerman, Kerman, Iran. [P]
- Soltani, A.R., Massumi, A. (2010), Proposing a New Part to National Building Code for Non-Structural Components in Very Important Buildings, *Proceedings of the 2nd Conference on National Building Regulations*, Ministry of Housing and Urban Development, Shiraz, Iran. [P]

- Soltani, A.R., Massumi, A. (2010), Investigation and Description of Rescue Paths in Part 3 of National Building Code, *Proceedings of the 2nd Conference on National Building Regulations*, Ministry of Housing and Urban Development, Shiraz, Iran. [P]
- Soltani, A.R., Massumi, A. (2009), A Review on X-Bracings and Comparison of their Behavior with other Concentric Bracing Systems, *Proceedings of the Specialty Seminar on Seismic Design and Rehabilitation of Steel Structures*, Sharif University of Technology, Tehran, Iran. [P]
- Djalali, A.R., Massumi, A., Hosseinijenab, V., Ohlen, G., Castren, M., Kurland, L. (2009), Enhancing Preparedness Level and Safety Index of Hospitals Against Earthquakes, *Proceedings of the Fifth Mediterranean Emergency Medicine Congress (MEMC V)*, Palacio de Congresos, Valencia, Spain.
- Moshtagh, E., Massumi, A. (2009), Using Non-Destructive Tests for Increasing Accuracy in Seismic Assessment and Reliability of Rehabilitation and Renovation of Vital Structures, *Proceedings of the 1st National Conference on Engineering and Management of Infrastructures*, Center of Excellence for Infrastructures Engineering and Management, University of Tehran, Tehran, Iran. [P]
- Sohrabi-Bidar, A., Massumi, A., Eskandari, M. (2009), Site-Specific Design Response Spectra for a Bridge Site: Deterministic and Probabilistic Approaches, *Proceedings of the International Conference on Advances in Concrete, Structural and Geotechnical Engineering (ACSGE 2009)*, Civil Engineering Group, Birla Institute of Technology & Science, Pilani, India.
- Imashi, N., Massumi, A. (2009), Comparison of Methods for Calculation of Seismic Loads between Iranian Seismic Code (Standard No. 2800) and International Building Code 2003, *Proceedings of the 4th National Seminar for Iranian Code of Practice for Seismic Resistant Design of Buildings (Standard No. 2800)*, Building and Housing Research Center (BHRC), Tehran, Iran, Paper No. EC06-01. [P]
- Haghbin Ghomi, M., Massumi, A. (2009), A New Lateral Load Pattern for Nonlinear Static Analysis of Mid-Rise RC Frames, *Proceedings of the 4th National Seminar for Iranian Code of Practice for Seismic Resistant Design of Buildings (Standard No. 2800)*, Building and Housing Research Center (BHRC), Tehran, Iran, Paper No. EC03-11. [P]
- Fallah, A.A., Moghadam, A.S., Massumi, A. (2009), A Nonlinear Dynamic Based Redundancy Index for Reinforced Concrete Frames, *Proceedings of the 3rd International Conference on Concrete and Development (3ICCD)*, Building and Housing Research Center (BHRC), Tehran, Iran.
- Massumi, A., Jalali, A., Hosseini Jenab, V., Zanganeh, A.M., Nazari, A., Noein Isfahani, M. (2009), Strengthening of Non-Structural Components of Three Hospitals in Gorgan, *Proceedings of the 2nd National Congress on Injury Prevention and Safety Promotion in Disasters*, Kerman, Iran. [P]

- Massumi, A., Valadi, E. (2008), Structural and Architectural Aspects in Tunnel Concrete Forming System, *Proceedings of the 13th Seminar of Housing Development Policies in Iran*, Tehran, Iran. [P]
- Nekooei, M., Mohammadi, N., Massumi, A. (2008), Comparing of Various Methods of Strengthening of RC Buildings Using Steel Bracings, *Proceedings of the 1st International Conference on Seismic Retrofitting (ICSR)*, Tabriz, Iran. [P]
- Massumi, A., Tasnimi, A.A. (2008), Strengthening of Low Ductile Reinforced Concrete Frames Using Steel X-Bracings with Different Details, *Proceedings of the 14th World Conference on Earthquake Engineering*, Beijing, China.
- Massumi, A., Tabatabaiefar, H.R. (2008), A Criterion for Considering Soil-Structure Interaction Effects in Seismic Design of Ductile RC-MRFs According to Iranian Codes, *Proceedings of the 14th World Conference on Earthquake Engineering*, Beijing, China.
- Kholdebarin, A.R., Massumi, A., Davoodi, M. (2008), Influence of Soil Improvement on Seismic Bearing Capacity of Shallow Foundation, *Proceedings of the 14th World Conference on Earthquake Engineering*, Beijing, China.
- Kholdebarin, A.R., Massumi, A., Davoodi, M. & Tabatabaiefar, H.R. (2008), Comparing of Normal Stress Distribution in Static and Dynamic Soil-Structure Interaction Analyses, *Proceedings of the 2008 Seismic Engineering Conference, Commemorating the 1908 Messina and Reggio Calabria Earthquake (MERCEA'08)*, Reggio Calabria, Italy, American Institute of Physics (AIP) Conference Proceedings, Vol. 1020, pp. 650-657, ISBN: 978-0-7354-0542-4. doi: 10.1063/1.2963897.
- Massumi, A., Davoodi, M., Kholdebarin, A.R. (2008), Study on Effects of Various Soil Parameters on Dynamic Settlement of Shallow Foundations, *Proceedings of the 4th National Congress on Civil Engineering (4NCCE)*, University of Tehran, Faculty of Engineering, Tehran, Iran. [P]
- Massumi, A., Tabatabaiefar, H.R. (2008), Study on Effects of Soil-Structure Interaction with Massless Foundations and Comparison with Usual Method in RC Buildings Located on Soft Soils Using Dynamic Analyses, *Proceedings of the 4th National Congress on Civil Engineering (4NCCE)*, University of Tehran, Faculty of Engineering, Tehran, Iran. [P]
- Massumi, A., Tabatabaiefar, H.R. (2007), Effects of Soil-Structure Interaction on Seismic Behavior of Ductile Reinforced Concrete Moment Resisting Frames, *Proceedings of the World Housing Congress on Affordable Quality Housing (WHC2007): Challenges and Issues in the Provision of Shelter for All*, Housing Research Center, Faculty of Engineering, Universiti Putra Malaysia (UPM), Terengganu, Malaysia.

- Massumi, A., Tabatabaiefar, H.R. (2007), Effects of Soil-Structure Interaction on Seismic Behavior of Reinforced Concrete Buildings with Moment Resisting System (Using Direct Method), *Proceedings of the 5th International Conference on Seismology and Earthquake Engineering (See 5)*, International Institute of Earthquake Engineering and Seismology (IIEES), Tehran, Iran. [P]
- Massumi, A. (2005), Effect of Material Strength Deviations on Strength and Overstrength of Reinforced Concrete Moment Resisting Frames, *Proceedings of the 2nd International Conference on Concrete and Development (2ICCD)*, Building and Housing Research Center (BHRC), Tehran, Iran. [P]
- Massumi, A., Tasnimi, A.A., Saatcioglu, M. (2004), Prediction of Seismic Overstrength in Concrete Moment Resisting Frames Using Incremental Static and Dynamic Analyses, *Proceedings of the 13th World Conference on Earthquake Engineering*, Vancouver, BC, Canada.
- Massumi, A., Tasnimi, A.A. (2003), When the R-Factor of Structures is Reliable?, *Proceedings of the 4th International Conference on Seismology and Earthquake Engineering (See 4)*, International Institute of Earthquake Engineering and Seismology (IIEES), Tehran, Iran. [P]
- Tasnimi, A.A., Massumi, A. (2003), Overstrength in Low and Mid - Rise RC-MRF, *Proceedings of the 6th International Conference on Civil Engineering (6ICCE)*, Isfahan University of Technology, Isfahan, Iran. [P]
- Massumi, A., Tasnimi, A.A. (2003), Historical Developments of Response Modification Factors for Building Structures, *Proceedings of the 3rd National Seminar for Challenge and Investigation of Iranian Code of Practice for Seismic Resistant Design of Buildings (Standard No. 2800)*, Vol. 1, Building and Housing Research Center (BHRC), Tehran, 351-361. [P]
- Tasnimi, A.A., Massumi, A. (2001), Evaluation of Vulnerability of RC Buildings in Tehran by Field Investigations, *Proceedings of the 1st International Conference on Concrete and Development (ICCD)*, Vol. 1, Building and Housing Research Center (BHRC), Tehran, 831-840. [P]
- Massumi, A., Tasnimi, A.A. (2000), Experimental Investigation on the Effect of Connection Details of Steel X-Bracing to the Reinforced Concrete Frames, *Proceedings of the 5th International Conference on Civil Engineering*, Vol. 3, Ferdowsi University, Mashhad, 105-113. [P]
- Massumi, A., Aghakouchak, A.A. (1999), The Effects of Viscoelastic Dampers On Seismic Response Of RC Frames, *Proceedings of the 1st Conference of Iranian Society of Civil Engineers*, Vol. 1, Tehran, 387-396. [P]
- Tasnimi, A.A., Massumi, A. (1999), Behavior of Reinforced Concrete Frames, Strengthened by Steel Bracings, *Proceedings of the 3rd International Conference on Seismology and Earthquake Engineering (See 3)*, Vol. 4, International Institute of Earthquake Engineering and Seismology (IIEES), Tehran, 475-482. [P]

PROFESSIONAL MEMBERSHIPS

- Faculty of Kharazmi University.
- Member of Canadian Association for Earthquake Engineering.
- Member of Iranian Construction Engineers Organization.
- Member of Iranian Society of Civil Engineers.
- Member of Iranian Earthquake Engineering Association.
- Member of Earthquake Hazards Reduction Society of Iran.

LANGUAGES

- Persian (Mother Tongue)
- English
- Arabic (Reading)

COMPUTER SKILLS

- Windows, Dos, Network
- Word, Excel, PowerPoint, FrontPage
- Programming in FORTRAN, BASIC & MATLAB
- AutoCAD
- IDARC, DRAIN, SAP Series & Many Other Professional Software
- Experience in Hardware and Assembling of Computers

AWARDS

- Excellence in Research Award from the Kharazmi University, 2011
- Visiting Researcher in Department of Civil Engineering, University of Ottawa, Ottawa, Canada, 2003
- Scholarship for Graduate Studies (Ph.D.) from Ministry of Science, Research and Technology of Iran, 1997-2002
- Scholarship for Graduate Studies (M.Sc.) from Ministry of Science, Research and Technology of Iran, 1994-1997
- Ranked Student in Ph.D.
- 2nd Ranked Student in M.Sc.
- 2nd Ranked Student in B.Sc.

COURSES TAUGHT

- Dynamics of Structures II (Post-Grad)
- Earthquake Engineering (Grad)
- Dynamics of Structures (Grad)
- Design of Earthquake-Resistant Buildings (Grad)
- Advanced Reinforced Concrete Structures (Grad)
- Advanced Engineering Mathematics (Grad)
- Design of Reinforced Concrete Structures (Undergrad)
- Numerical Calculations (Undergrad)
- Statics (Undergrad)
- Mechanics of Materials (Undergrad)
- Computer Applications in Civil Engineering (Undergrad)
- Fundamentals of Earthquake Engineering (Undergrad)

REFERENCES

- Prof. A. A. Tasnimi, Professor, Dept. of Civil Engineering, Tarbiat Modares University (TMU) and Head of International Institute of Earthquake Engineering and Seismology (IIEES), Tehran, Iran.
- Prof. M. Saatcioglu, Professor, University Research Chair, and Vice Dean (Research), Department of Civil Engineering, University of Ottawa, Ottawa, Canada.
- Prof. J. W. Wallace, Professor & Director, NEES@UCLA and Structural/Earthquake Engineering Research Laboratories, Department of Civil & Environmental Engineering, University of California, Los Angeles (UCLA), USA.
- Prof. H. Shakib, Professor, Dept. of Civil Engineering, Tarbiat Modares University (TMU), Tehran, Iran.
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- Prof. A. Kaveh, Professor, Dept. of Civil Engineering, Iran University of Science and Technology (IUST), Tehran, Iran.
- Prof. H. A. Moghaddam, Professor, Dept. of Civil Engineering, Sharif University of Technology, Tehran, Iran.
- Prof. M. Ghafory Ashtiany, Professor, International Institute of Earthquake Engineering and Seismology (IIEES), Tehran, Iran.