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| |  | | --- | | CURRICULUM VITAE | | **Hamid Eskandari-Naddaf** Associate Professor of Civil Engineering  (Concrete Technology and Construction Management) | | Department of Civil Engineering, Hakim Sabzevari University, Sabzevar, Iran |      |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Personal Information** | | | | | | **First Name:** | Hamid | **E-Mail:** | **Hamidiisc@yahoo.com** | D:\Resume\Pics\4610.jpg461046104610 | | **Last Name:** | Eskandari-Naddaf |  | **H.eskandari@hsu.ac.ir** | | **Birth Date:** | 1977 | **Tel:** | +985144012789+985144412970 |  |  | | --- | | **Professional Background** | | **Associate Professor**: Hakim Sabzevari University, Civil Eng. Dep., (2016 to date)**Head of Civil Eng. Group**: Hakim Sabzevari University, Civil Eng. Dep., (2010-2012)**Assistant Professor**: Hakim Sabzevari University, Civil Eng. Dep., (2009-2016) |  |  | | --- | | **Educational Background** | | **2004-2008** Ph.D. in Construction Management - Structural Engineering, Indian Institute of Science (IISC), Bengaluru, India.**2000-2002** M.Sc. in Construction Management, Islamic Azad University (Science and Research Branch), Tehran, Iran.**1996-2000** B.Sc. in Civil Engineering, Islamic Azad University, Mashhad, Iran. |  |  | | --- | | **Thesis** | | PhD: "Fracture Behavior of Self Compacting Concrete" under supervision of Prof. B.K.Raghu Prasad and in attendance of Prof. B V Venkatarama Reddy.MSc: "Regulation of Concrete for oil Industry" under supervision of Prof. A.R. Khaloo. | |
| |  | | --- | | **Areas of Interest** | | Advanced Concrete TechnologyFracture Mechanics of CocncreteAcoustic EmissionConstruction ManagementStructural OptimizationDigital Image Correlation (DIC)Finite Element Analysis (FEA)Lightweight Concrete ElementsChareterization of concrete using ANN, SVM, Montcarlo, and Metaheuristic Algorithms |  |  | | --- | | **Journal Papers** | | 1. A Ghanei, H Eskandari-Naddaf, T Ozbakkaloglu, A Davoodi (2020) Electrochemical and statistical analyses of the combined effect of air-entraining admixture and micro-silica on corrosion of reinforced concrete, , Construction and Building Materials 262, 120768 2. M Azimi-Pour, H Eskandari-Naddaf (2020) Synergistic effect of colloidal nano and micro-silica on the microstructure and mechanical properties of mortar using full factorial design, Construction and Building Materials 261, 120497 3. SA Emamian, H Eskandari-Naddaf (2020) Genetic programming based formulation for compressive and flexural strength of cement mortar containing nano and micro silica after freeze and thaw cycles, Construction and Building Materials 241, 118027 4. H Divanedari, H Eskandari-Naddaf (2020) Insights into surface crack propagation of cement mortar with different cement fineness subjected to freezing/thawing, Construction and Building Materials 233, 117207 5. M Azimi-Pour, H Eskandari-Naddaf, A Pakzad (2020) Linear and non-linear SVM prediction for fresh properties and compressive strength of high volume fly ash self-compacting concrete , Construction and Building Materials 230, 117021 6. Emamian, S. A., & Eskandari-Naddaf, H. (2019). Effect of porosity on predicting compressive and flexural strength of cement mortar containing micro and nano-silica by ANN and GEP. Construction and Building Materials, 218, 8-27. 7. Kooshkaki, A., & Eskandari-Naddaf, H. (2019). Effect of porosity on predicting compressive and flexural strength of cement mortar containing micro and nano-silica by multi-objective ANN modeling. Construction and Building Materials, 212, 176-191. 8. Madadi, A., Tasdighi, M., & Eskandari-Naddaf, H. (2019). Structural response of ferrocement panels incorporating lightweight expanded clay and perlite aggregates: Experimental, theoretical and statistical analysis. Engineering Structures, 188, 382-393. 9. Korouzhdeh, T., & Eskandari-Naddaf, H. (2019). Cost-safety optimization of steel-concrete composite beams using standardized formulation. Engineering Science and Technology, an International Journal, 22(2), 523-532. 10. Mahdi-Nia, S., Eskandari-Naddaf, H., Shadnia, R. (2019). [Effect of cement strength class on the prediction of compressive strength of cement mortar using GEP method](https://www.sciencedirect.com/science/article/pii/S0950061818329568). Construction and Building Materials 198, 27-41. 11. 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(2018). [Characterization of ferrocement slab panels containing lightweight expanded clay aggregate using digital image correlation technique](https://www.sciencedirect.com/science/article/pii/S0950061818314144). Construction and Building Materials, 180, 464-476. 4. Ghanei, A., Eskandari-Naddaf, H. & Davoodi, A. (2018). [Corrosion behavior and optimization of air-entrained reinforced concrete, incorporating micro-silica](https://onlinelibrary.wiley.com/doi/full/10.1002/suco.201800058), Structural Concrete, 19 (5), 1472-1480. 5. Korouzhdeh, T., Eskandari-Naddaf, H. (2018). [Cost – safety optimization of steel-concrete composite beams using standardized formulation](https://www.sciencedirect.com/science/article/pii/S2215098618311911), Engineering Science and Technology, an International Journal, https://doi.org/10.1016/j.jestch.2018.09.005. 6. Madadi, A., Eskandari-Naddaf, H., & Nemati-Najad, M. 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H Eskandari-Naddaf, R Kazemi (2018) “[Experimental evaluation of the effect of mix design ratios on compressive strength of cement mortars containing cement strength class 42.5 and 52.5 MPa](https://www.sciencedirect.com/science/article/pii/S2351978918303548)” Procedia Manufacturing , 22, 392-398 10. A Ziaei-Nia, GR Tadayonfar, H Eskandari-Naddaf (2018) ” [Effect of Air Entraining Admixture on Concrete under Temperature Changes in Freeze and Thaw Cycles](https://www.sciencedirect.com/science/article/pii/S2214785317332170)” Materials Today: Proceedings 5 (2), 6208-6216 11. M Shariat, H Eskandari-Naddaf, M Tayyebinia, M Sadeghian (2018) “[Sensitivity Analysis of Reinforced Concrete Deep Beam by STM and FEM (Part III)](https://www.sciencedirect.com/science/article/pii/S221478531733122X)” Materials Today: Proceedings 5 (2), 5529-5535 12. M Shariat, H Eskandari-Naddaf, M Tayyebinia, M Sadeghian (2018) “[Finite Element Modeling of Shear Strength for Concrete Deep Beams (Part II)](https://www.sciencedirect.com/science/article/pii/S2214785317331218)”Materials Today: Proceedings 5 (2), 5521-5528. 13. A Ziaei-Nia, GR Tadayonfar, H Eskandari-Naddaf (2018) “[Dynamic Cost Optimization Method of Concrete Mix Design](https://www.sciencedirect.com/science/article/pii/S2214785317330134)” , Materials Today: Proceedings 5 (2), 4669-4677 14. H Eskandari-Naddaf, S Muralidhara, BKR Prasad, BVV Reddy, A Pakzad, (2018) [PROPERTIES of SCC in GREEN and GREY STATE](https://www.sciencedirect.com/science/article/pii/S2214785317328705), Materials Today: Proceedings 5 (2), 3503-3512 15. Ghaemi-Fard, H Eskandari‐Naddaf, GR Ebrahimi (2018) “[Genetic prediction of cement mortar mechanical properties with different cement strength class after freezing and thawing cycles](https://onlinelibrary.wiley.com/doi/abs/10.1002/suco.201700196?af=R&utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+StructuralConcrete+%28Structural+Concrete%29)” Structural Concrete, 19 (5), 1341-1352. 16. Hamid Eskandari-Naddaf, Saeed Morshedi-Torbati (2018)  “[Durability of dry pressed concrete curbs against freeze and thaw for various cement strength grade](http://sjce.journals.sharif.edu/article_1322.html), Sharif Journal Civil Engineering 34 (2), 69-76. 17. Hamid Eskandari-Naddaf Roshanak Khosrojerdi; Rana Koshki (2018)  “[Optimization effective factors on compressive and flexural strength of mortars using Response Surface Method](http://www.jsce.ir/article_55212_0.html), Journal of Structural and Construction Engineering (JSCE), DOI: [10.22065/JSCE.2018.99589.1339](https://dx.doi.org/10.22065/jsce.2018.99589.1339). 18. Hamid Eskandari- Naddaf, M. Nemati-Nejad, (2018) ”[Finite Element and Experimental Analysis of Bond Behavior Between Reinforcement and Concrete Containing Fibers, Silicafume and Nanosilica](http://modelling.journals.semnan.ac.ir/article_3390.html)” Journal of Modeling in Engineering, Semnan,10.22075/JME.2017.5812. 19. Eskandari-Naddaf, H., & Kazemi, R. (2017). [ANN prediction of cement mortar compressive strength, influence of cement strength class](http://www.sciencedirect.com/science/article/pii/S0950061817301563). Construction and Building Materials, 138, 1-11. 20. 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Construction and Building Materials, 23(1), 117-12. | | **National and International Conferences** | | 1. **Hamid Eskandari-Naddaf**, Bashtani (2017) “Optimization of compressive strength of cement mortar by controlling the chemical parameter of nano silica by the Taguchi statistical method” 4th International Conference on Applied Research in Chemistry science and biology 2. **Hamid Eskandari-Naddaf**, Zahiri (2017) Optimization of compressive strength of concrete containing Nano silica and polypropylene fibers and variable water to cement ratio using edge design, 4th International Conference on Applied Research in Chemistry science and biology 3. **Hamid Eskandari-Naddaf**, Milad Aram (2017) Studying the Compressive Strength and Crack Growth Pattern in Samples Reinforced with Polymer and Macrosynthetic Fibers, International Conference on Contemporary Iran in Civil Engineering , Architecture and Urban Development 4. **Hamid Eskandari-Naddaf**, M. Mareh-Parvar (2017) Application of Taguchi method for mechanical properties of concrete containing fibers,International Conference on Contemporary Iran in Civil Engineering , Architecture and Urban Development 5. **Hamid Eskandari-Naddaf**, A. Khalvti (2017) Systems engineering method in effective Factors on Compressive Strength of Cement Mortar Using Response Surface, 3th International Conference on Industrial and Systems Engineering 6. **Hamid Eskandari-Naddaf**, Jannat-Parast (2017) Mechanical Properties of DPCC using Mixture Method, 2th international confrence on Civil engineering architecture and crisis managment 7. **H Eskandari**, M. Shariat, M. Sadeghian. (2016). Optimization methods of rectangular concrete beams. 3th International Conference on Recent Innovations in Civil Engineering, Architecture & Urban Planning, Tehran, Iran. 8. **H Eskandari**, E. S. Hosseini. (2015). Corrosion behavior of rebars in concrete containing micro-silica and air entraining using TOEFL test. 3th International Conference on Applied Research in Civil Engineering, Architecture & Urban Management, Tehran, Iran. 9. **H Eskandari**, M. Tayebinia, M. Shariat. (2015). Analysis of shear strength and modeling of concrete deep beams. 3th International Conference on Applied Research in Civil Engineering, Architecture & Urban Management, Tehran, Iran. 10. **H Eskandari**, S. Amiri Mendi. (2015). Investigation of freeze and thaw effects on compressive strength and wight of concrete. 3rd. International Congress on Civil Engineering, Architecture & Urban Development, Tehran, Iran. 11. **H Eskandari**, M. Tayebinia, M. Sharifi. (2015). Effects of NaCl on cement with 325 strength grade. 3rd. International Congress on Civil Engineering, Architecture & Urban Development, Tehran, Iran. 12. **H Eskandari**, M. Tayebinia, M. Shariat. (2015). Analysis of shear strength and modeling of concrete deep beams. 3th International Conference on Applied Research in Civil Engineering, Architecture & Urban Management, Tehran, Iran. 13. **H Eskandari**, T Korouzhdeh. (2014). Cost Optimization Analysis of Composite Beam. 4th International Conference on Composites: Characterization, Fabrication, and Application (CCFA-4), Tehran, Iran. (pdf) 14. A Ziaei Nia, **H Eskandari**. (2014). A basic finite element model for study of freeze and thaw in concrete curb. Concrete national conference. 15. **H. Eskandari** and A. Madadi. (2014). Design and Construction of Ferrocement Lightweight Concrete Structures. 6th Concrete National Conference, Tehran, Iran. 16. **H. Eskandari** and A. Pakzad. (2014). Foundation Analyzing of Centrifugal ID Fan Cement Plants with FEM Method. 6th Concrete National Conference, Tehran, Iran. 17. **H. Eskandari** and M. Azimi Pour. (2014). Design and prediction of ferrocement mortar compressive strength. 6th Concrete National Conference, Tehran, Iran. 18. M Dezhangah, **H Eskandari**. (2014). Modeling cylindrical concrete columns reinforced with rebar and wrapping of glass fiber polymer (GFRP). 6th Concrete National Conference, Tehran, Iran. 19. A Hejazian, **H Eskandari**. (2014). Design and repair of concrete structures with corrosion caused by chloride. 6th Concrete National Conference, Tehran, Iran. 20. M. Nematinezhad, **H. Eskandari** (2014). Linear and nonlinear static and dynamic design of high concrete structures. 6th Concrete National Conference, Tehran, Iran. 21. M Azimi Pour, **H Eskandari**. (2014). Optimization investigation and modeling of ferrocement mix design. Architecture, Civil Engineering and Urban Development Conference, Tabriz, Iran. 22. **H. Eskandari** and A. Madadi, (2014). Ferrocement technology and its application in urban development. Architecture, Civil Engineering and Urban Development Conference, Tabriz, Iran. 23. **H. Eskandari** and A. Pakzad, (2014). Optimization Methods in concrete mix design (Persian). Architecture, Civil Engineering and Urban Development Conference, Tabriz, Iran. 24. **H. Eskandari** and A. Ziaei Nia, (2014). Application of dynamic optimization in safe design of tanks (Persian). Architecture, Civil Engineering and Urban Development Conference, Tabriz, Iran. 25. **H. Eskandari** and M. Heydari, (2014). Application of concrete septic tank in reducing the damages of crises. Architecture, Civil Engineering and Urban Development Conference, Tabriz, Iran. 26. **H Eskandari**, A Pakzad, A Amiri, R Sadati. (2014). Finite element analysis of ID fan foundation on various modulus of elasticity concrete. Cement Magazine (Persian)-ISSN 1735-4390 1 (200), 61. 27. **H. Eskandari**, A. Davoodi, A. Ghanei. (2014). Effects of air entraining and micro silica on corrosion of reinforced concrete” The first International conference on sustainable urban structure, Tehran,Iran. profs.hsu.ac.ir/eskandari/files/2017/12/Ghanei-con.pdf 28. **H. Eskandari**, A. Pakzad. (2014). Mix Design Optimization of Self Consolidating Concrete Using Simplex Lattice. The first International conference on sustainable urban structure, Tehran, Iran. 29. **H. Eskandari**, A. Ziaei Nia. (2014). Dynamic optimization of HPC in concrete structures of passive defense. The first International conference on sustainable urban structure, Tehran, Iran. 30. **H. Eskandari**, E. S. Hosseini. (2014). Corrosion optimization in reinforced concrete. The first International conference on sustainable urban structure, Tehran, Iran. 31. **H. Eskandari**, S. Morshedi Torbati. (2014). Application and production of dry-presses concrete curbs. The first International conference on sustainable urban structure, Tehran, Iran. 32. **H. Eskandari**, A. Pakzad. (2014). Analyzing and Retrofitting Design of Corrosion Damages in Concrete Structure. 1st National Conference on Architecture, Civil engineering & Urban environment, Hamedan, Iran. 33. **H. Eskandari**, A. Pakzad. (2014). Compressive Strength Formulating of HPC. National Conference on Civil and Architecture engineering & Urban Sustainable Management, Gorgan, Iran. 34. S Muralidhara, **H Eskandari**, BKR Prasad, RK Singh. (2011). b-value of plain concrete beams based on AE Quanta. Experimental Mechanics on Emerging Energy Systems and Materials, Volume 5, 81-93. 35. HE Naddaf, (2010). Fracture Characteristics Of Self Consolidating Concrete, G22894. 36. BVVR, **Hamid Eskandari**, S. Muralidhara, B K Raghu Prasad, (2010), Relationship between GF and Gf for self-consolidating concrete. Framcos 8, Korea. 37. BLK S. Muralidhara, B. K. Raghu Prasad, **Hamid Eskandari**, (2009). True fracture energy and process zone of plain concrete from AE data, IMECE2009-13333, International Mechanical Engineering Congress, in Florida.USA. 38. BVVR Hamid Eskandari, S. Muralidhara, B K Raghu Prasad. (2009). Nano-micro fracture using moment tensor based on AE, IMECE2009-13332, International Mechanical Engineering Congress, in Florida.USA. 39. **H Eskandari**, RBK Prasad, S Muralidhara, VBV Reddy, (2009). AE Studies on Non-Micro Fracture using Moment Tensor in Solid Mechanics, IMECE2008-66306, International Mechanical Engineering Congress, October 31. 40. S Muralidhara, **H Eskandari**, RBK Prasad. (2008). Utilising AE sensor Peak Energy to estimate fracture process zone size in plain concrete beams, Proceedings of IQCICF, IISc, Bangalore, India, pp 61-64. 41. AR Khaloo, **H Eskandari**. (2004). Regulations for Use of Concrete in Oil Industry. 1st National Conference in Civil Eng., 7p. | | **Books** | | 1. Ardalan, Abol., "Economic & Financial Analysis for Engineering & Project Management", Translated in Persian by H. Eskandari, G.R. Tadayonfar and A. Madadi, 2016. 2. John Newman, Ban Seng Choo, “Advanced Concrete Technology: Constituent Materials”, Translated in Persian by H. Eskandari, G.R. Tadayonfar and A. Ghanei, 2016. 3. H. Eskandari, M. Tayyebinia, “Concrete technology laboratory tests”, In Persian, 2016. 4. J.H. Bungey et al., "Testing of Concrete in Structures", Translated in Persian by H. Eskandari, G.R. Tadayonfar and A. Pakzad, 2016. 5. Leland Blank, P. E., Anthony Tarquin, P. E. “Basics of Engineering Economy", Translated in Persian by H. Eskandari, G.R. Tadayonfar and R. Kazemi. 6. H. Eskandari, H. Saghi and S. Ebrahimi, “Principles and construction management”, In Persian. |  |  | | --- | | **Research Projects** | | The most economical concrete mixture design for “Haram-ta-haram” subway project, Khorasan Razavi Province, 9/2010-5/2012.Feasibility study on production of high-strength concrete without vibration in Sabzevar, Hakim Sabzevari University, 10/2010-4/2015. |  |  | | --- | | **Work Experiences** | | PTC, Manager Project Planing & Control in the petrolume proj, PTC CO, under Italian Co (Snamprogeti) supervision. Tehran, Iran, May 2003 - Feb 2004.University, Deputy Research Research project in the field of concrete rules in petrochemical consultant Dr. Ali Reza Khalo. Tehran, Iran. Jan 2003 - May 2003.Iranian Tunneling Association. Secretary. Tehran, Iran. Apr 2002 - Jan 2003.University, Eng Project Control Preparation time schedule for two eighteen floor use of primavera in consultant with Dr. Bakhshiani. Tehran, Iran. Jan 2002 - Apr 2002.University, Eng Project Control, Cooperation in Emam Khomeini Airport project with use of MSPprogram by consultant with Dr. Hossein Alipoor. Tehran, Iran, Jul 2001 - Jan 2002.University, Civil Engineering, Preparation analyzes cost for eleven floor residential building of Radio and Television organization. Tehran, Iran, Jan 2001 – Jul 2001. |  |  | | --- | | **MSc. Students** | | Mr. Amir Pakzad (2015) “ Linear and Nonlinear Modeling of Compressive Strength Prediction of SCC”Mr. Amin Ziaei Nia (2015) ”Effect of air bubbles on optimization, freeze and thawing and finite element modeling of concrete curbs”Mr. Ali Ziaei Nia (2015) “High Performance Concrete, Dynamic Optimization and Corrosion”Mr Saeed Morshedi Torbati (2015) “Durability Study on Dry-Pressed Concrete curbs Made by Different Cements & Air-Causing admixtures”Mr. Mohsen Heydari (2015) “Design of concrete septic tanks and comparing it with existing methods”Mr. Sadegh Amiri Mendi (2015) “Influence of porosity and freeze- thaw on mechanical properties of concrete”Mr. Mehran Shariat (2015) “ Optimum Design of Rectangular Reinforced Concrete Deep Beams”Ms. Elham Sadat Hosseini (2015) “Electrochemical evaluation methods of corrosion for rebar of air entraining reinforced concrete “Mr. Masoud Nemati-Nejad (2016) “Investigation of different concrete effects containing micro and nano silica on the bond behavior between steel bars and concrete”Mr. Amirhossein Madadi (2017) “Experimental and modeling analysis of Ferro cement roofs”Mr. Ramin Kazemi (2017) “Experimental investigation and prediction of mechanical properties of cement mortar using ANN”Mr. Milad Aram (2017) “ Investigation of Forta Fiber contained concrete using finite element and DIC”Ms. Tahereh Korozhdeh (2017) “Cost optimization of composite beams using meta-heuristic search algorithms”Mr. Mohammad Ghaemi Fard (2017) “Mechanical properties of cement mortar prediction for various cement type using genetic algorithm”Mr. Mohammad Azimi Pour (2018) “Experimental evaluation and prediction of influence micro and nano particles on the properties of Ferro cement mortar”Ms. Anis Ghanei (2018) “Optimization corrosion of reinforced concrete containing air entraining and micro silica using statistical methods”Ms. Sahar Mahdinia (2018) “Prediction and evaluation of cement mortar mechanical properties by using Support vector machine (SVM)”Mr. Mohammad Dorghadami (2018) “Montcarlo Simulation Mechanical properties of cement mortar prediction for various cement type” |  Mr. Seyed Ali Emamian (2019) “Synergistic effect of Micro-silica and Nano-silica on Mechanical Properties and Freeze-Thaw cycle of mortar containing 52.5 MPa cement grade: Experimental investigation and Predicting by Artificial Neural Network and Genetic Expression Program”Mr. Seyed Hamid Kalali (2019) “Cracking behavior of concrete reinforced by chicken mesh, Forta and Polypropylene fiber: Experimental evaluation using digital image correlation method”Mr. Milad Divandar (2019) “Modeling and optimization of steel rebar bond strength in chloride environment for concrete containing micro-nano silica and polypropylene fiber by using of different cement strength classes: macro and micro scale” |