ALI ASGHAR ALESHEIKH Full Professor

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PERSONAL INFORMATION

Date of Birth:	May 09 1965
Place of Birth:	Mashhad, Iran
Citizenship:	Iran
Sex:	Male
Marital Status:	Married



EDUCATION

Sept/93 –June/98	The University of Calgary, Calgary, Canada
	Ph.D. in Geomatics Engineering Specialization: Geospatial Information System (GIS) Thesis title: Modeling and managing uncertainty in object-based Geospatial Information Systems (GIS)
Sept/91 - Sept/93	The University of New Brunswick, Fredericton, Canada
	M. Eng. in Geomatics Engineering Specialization: Digital Photogrammetry Thesis title: Generating digital orthoimages using a hybrid GIS
Sept/84 - Sept/88	K. N. Toosi University of Technology, Tehran, Iran
	B.Sc. in Surveying Engineering Faculty of Geodesy and Geomatics Engineering, K. N. Toosi Technical University, Tehran, Iran.

PROFESSIONAL WORK EXPERIENCE

Oct. 2012– present	Full Professor , Department of GIS, Faculty of Geodesy and Geomatics Engineering, K. N. Toosi University of Technology, Tehran, Iran.
Oct. 2007–2012	Associate Professor, Department of GIS, Faculty of Geodesy and Geomatics Engineering, K. N. Toosi University of Technology, Tehran, Iran.
June 2000 – Oct. 2007	Assistant Professor, Department of GIS, Faculty of Geodesy and Geomatics Engineering, K.N. Toosi University of Technology, Tehran, Iran.
Sept. 98 - May 2000	Product Manager, MRF Geosystems, Calgary, AB, Canada.
Sept 95 – Sept 98	Teaching/Research Assistant, The University of Calgary, Calgary, AB, Canada.

Jan 89 – Sept 90 Consultant, National Cartographic Center, Tehran, Iran

AWARDS AND HONORS

2019, 2010	Research Recognition Award, K. N. Toosi University of Technology, Tehran, Iran.
2008	Best Paper Presentation Award , 11th Annual International Conference and Exhibition on Geospatial Information, Technology and Applications, Map India 2008. Delhi, India.
2003, 2008	Best Paper Award, Geomatics 82 and Geomatics 87 Conferences, Tehran, Iran
2002	Best Instructor Award, K. N. Toosi University of Technology, Tehran, Iran.
1996 – 97	Excellence in Lab Instruction Award, Dept. Of Geomatics Engineering, The University of Calgary. Calgary, AB, Canada
1995 – 1996	Special Graduate Achievement Award, The University of Calgary, Calgary, AB, Canada.
1993 – 1997	Special Doctoral Fellowship Award, Ministry of Culture and Higher Education of Iran.

SCIENTIFC MEMBERSHIPS

2015- present	Member of the Board of Directors of Iranian Association of Geospatial Information Systems
2011-2015	Member of the Board of the Iranian Society of Surveying and Geomatics Engineering
2016-present	Member of the Editorial Board of Numerical Methods in Civil Engineering Journal
2014- present	Member of the Editorial Board of Journal of Geomatics Science and Technology
2009-	Member of the Editorial Board of Journal of Surveying Engineering (In Persian)
2008-	Member of the Editorial Board of Marine Journal of Science and Technology (In Persian)
2011	Member of the Editorial Board of International Geoinformatics Research and Development Journal
2011	Scientific Committee Member of 5 th International Symposium on Advances in Science & Technology (5thSASTech) Conference
2010, 2018	Scientific Committee Member of ICOPMAS 2010 Conference
2010	Member of the Review Board of GSDI 12 World Conference
2008-	Scientific Member of National Geospatial Data Infrastructure committee

2003-2010	Scientific Committee member of "GIS 86-89, Geomatics 80-90, Machine vision and image processing 81, Global Positioning Systems 80, Internet Cities 80 "Conferences (In Persian)
2003	Country Editorial of GIM International Journal
2003	Conference Chair "Assessing GIT issues in Iran"
2002-2003	Associate Chair "Iranian GIS/RS Society"
2002-2003	Committee Member "National Spatial Data "

PROFESSIONAL QUALIFICATIONS

Familiar with Web technologies namely Web Services technology, AJAX, etc. and Web Mapping Open APIs namely Google Maps API, OpenLayers API, etc.

Familiar with programming languages such as VB.NET and VBA, and Professional in C# and JavaScript

STUDENT SUPERVISION

2001-2019 62 M.Sc. Students

2002-2019 24 Ph.D. Students

RECENT PUBLICATIONS

Book Publication

- 1. Ali A. Alesheikh and Saeed Behzadi (2014) "Intelligent Agents" K. N. Toosi Publication (Translated to Persian)
- 2. Mahdieh Ghodsinejad **and Ali A. Alesheikh** (2011) "Semantic Web" K. N. Toosi Publication (Translated to Persian)

Chapter Book Publication

3. Mahdi Hashemi and **Ali A. Alesheikh** (2011). "Spatio_Temporal Analysis of Tehran's Historical Earthquakes Trends" in Advancing Geoinformation Science for a Changing World" Chapter1. Edited by Staan Geertman, Wolfgang Reinhardt, and Fred Toppen, Springer-Verlag Berlin Heidelberg. ISBN: 978-3-642-19788-8.

- 4. **Alesheikh**, A.A., J.A.R. Blais, M. A. Chapman, and H. Karimi (1999). "Rigorous Geospatial Data Uncertainty Models for GIS" in "Spatial Accuracy Assessment: Land Information Uncertainty in Natural Resources", Chapter 24. Edited by: Kim Lowell and Annick Jaton. Ann Arbor Press, Michigan, USA.
- Anahid Bassiri, Mohammad R. Malek and Ali A. Alesheikh (2008)." Rough Spatio-Temporal Topological Relationships" in "Computational Intelligence in Decision and Control", pp. 127 – 132. Edited by: Da Ruan, Javier Montero, Jie Lu, Luis Martinez, Pierre Dhondt and Etienne E. Kerre. World Scientific Proceedings Series on Computer Engineering and Information Science, Singapore.
- Saeed Behzadi and Ali A. Alesheikh (2008). "Developing a Genetic Algorithm for Solving Shortest Path Problem" in "New Aspects in Urban Planning and Transportation". Edited by: Valeri Mladenov, Zoran Bojkovic, Stamatios Kartalopoulos, and Argyrios Varonides. Pp. 23-27. WSEAS Press. ISBN: 978-960-6766-87-9.
- Mohammad H. Vahidnia, Ali A. Alesheikh, Abbas Alimohammadi, and Farhad Hosseinali (2009). "Design and Development of an Intelligent Extension for Mapping Landslide Susceptibility Using Artificial Neural Network" LNCS 5592, Part I, pp. 17–32, Springer-Verlag Berlin Heidelberg. ISBN-15: 978-3-642-02453-5.
- Ali R. Vafaeinezhad, Ali A. Alesheikh, Majid Hamrah, Reza Nourjou, and Roozbeh Shad (2009). "Using GIS to Develop an Efficient Spatio-temporal Task Allocation Algorithm to Human Groups in an Entirely Dynamic Environment Case Study: Earthquake Rescue Teams" LNCS 5592, Part I, pp. 66–78, Springer-Verlag Berlin Heidelberg. ISBN-15: 978-3-642-02453-5.
- Mohammad R. Jelokhani-Niaraki, Ali A. Alesheikh, Abbas Alimohammadi, and Abolghasem Sadeghi-Niaraki (2009). "Designing Road Maintenance Data Model Using Dynamic Segmentation Techniques" LNCS 5592, Part I, pp. 442–452, Springer-Verlag Berlin Heidelberg. ISBN-15: 978-3-642-02453-5.
- Anahid Bassiri, Mohammad R. Malek, and Ali A. Alesheikh (2009). "Rough Qualitative Spatial Reasoning Based on Rough Topology" LNCS 5592, Part I, pp. 479–489, Springer-Verlag Berlin Heidelberg. ISBN-15: 978-3-642-02453-5.
- Anahid Bassiri, Mohammad R. Malek, Ali A. Alesheikh, and Pooria Amirian (2009). "Temporal Relationships between Rough Time Intervals" LNCS 5592, Part I, pp. 543–552, Springer-Verlag Berlin Heidelberg. ISBN-15: 978-3-642-02453-5.
- Saeed Behzadi, Ali A. Alesheikh, and Mohammad R. Malek (2009). "A Novel Tree Graph Data Structure for Point Datasets" LNCS 5593, Part II, pp. 572–579, Springer-Verlag Berlin Heidelberg. ISBN-15: 978-3-642-02453-5.
- 13. Farhad Hosseinali, Abbas Alimohammadi and Ali A. Alesheikh (2009). "Assessing Uncertainty in GIS Using Artificial Neural Networks" in "Spatial Data Quality from Process to Decision" Chapter 8. Edited by: Rodolphe Devillers and Hellen Goodchild. Pp. 87-96. CRC Press, Taylors and Francis Group. London, U.K.

Journal Papers

 Ali Sabzali Yameqani and Ali A. Alesheikh (2019). "Predicting Subjective Measures of Walkability Index from Objective Measures Using Artificial Neural Networks". Sustainable Cities and Society. Vol. 48. https://doi.org/10.1016/j.scs.2019.101560.

- 15. Mohammad Fallah-Zazuli, Alireza Vafaeinejad, Ali A. Alesheikh, Mahdi Modiri and Hossein Aghamohammadi (2019). "Mapping landslide susceptibility in the Zagros Mountains, Iran: a comparative study of different data mining models" Earth Science Informatics. https://doi.org/10.1007/s12145-019-00389-w.
- Mehri Davtalab and Ali A. Alesheikh (2019). "A Spatial Filtering Model in Recommender Systems Using Fuzzy Approach". International Journal of Uncertainty Fuzziness and Knowledge-Based Systems. Vol 27, No 3. Pp. 457-481. doi:10.1142/S0218488519500211.
- Ali Sbzali Yameqani and Ali A. Alesheikh (2019). "Evaluating a Location Distortion Model to Improve Reverse Geocoding through Temporal Semantic Signatures". Computers, Environment and Urban Systems. Vol. 77. Pp. 1-12.
- 18. Arezoo Moazami, Jamal Ghodousi, Ali A. Alesheikh, Saeid Soltani Kupai (2019). "Urban Land Use Allocation Based on FAHP Technique (Case Study: Chadegan City), Iran". Environmental Engineering and Management Journal. (Accepted).
- 19. Neda Kaffash Charandabi, Ali A. Alesheikh and Mohammad Sharif (2019). "A ubiquitous asthma monitoring framework based on ambient air pollutants and individuals' contexts". Environmental Science and Pollution Research. Vol 26, No 8, Pp. 7525-7539. https://doi.org/10.1007/s11356-019-04185-3.
- 20. Mohammad Sharif, **Ali A. Alesheikh** and Behnam Tashayo (2019). "CaFIRST: A context-aware hybrid fuzzy inference system for the similarity measure of multivariate trajectories". Journal of Intelligent and Fuzzy Systems. Vol. 36, No. 6, pp. 5383-5395. DOI:10.3233/JIFS-181252.
- Ali Kalantari Oskouei, Mahdi Modiri, Ali A. Alesheikh, Reza Hosnavi (2019). "An Analysis of the National Spatial Data Infrastructure of Iran". Survey Review. Vol. 51, No. 366, pp. 225-237. DOI: 10.1080/00396265.2017.1420586.
- 22. Omid Reza Abbasi and **Ali A. Alesheikh** (2018). "Exploring the potential of location-based social networks data as proxy variables in collective human mobility prediction models." Arabian Journal of Geosciences. Vol. 11, No. 8, 173. Pp. 1-14. https://doi.org/10.1007/s12517-018-3496-4.
- 23. Arash Hazeghi Aghdam and Ali A. Alesheikh (2018). "Predicting the Future Location of Cars on Urban Street Network by Chaining Spatial Web Services." IET Intelligent Transport Systems. Vol. 12, No. 8. Pp. 793 800. DOI:10.1049/iet-its.2017.0085
- Mohammad Eskandari, Babak Omidvar, Mahdi Modiri, Mohammad Ali Nekooie, Ali Asghar Alesheikh (2018). "Sensitivity Analysis in Seismic Loss Estimation of Urban Infrastructure." Geomatics, Natural Hazards and Risk. Vol. 9, No. 1. Pp. 624-644. https://doi.org/10.1080/19475705.2018.1469546.
- 25. Sepehr Honarparvar, Rouzbeh Forouzandeh Jonaghani, Ali A. Alesheikh and Behnam Atazadeh (2018). "Improvement of a Location-Aware Recommender System Using Volunteered Geographic Information". Geocarto International. https://doi.org/10.1080/10106049.2018.1493155.
- Mohammad Sharif and Ali A. Alesheikh (2018). "Context-Aware Movement Analytics: Implications, Taxonomy, and Design Framework". WIREs: Data Mining and Knowledge Discovery. Vol. 8, No. 1. pp 1-19. doi: 10.1002/widm.1233.

- Mehri Davtalab and Ali A. Alesheikh (2018). "Spatial Optimization of Biomass Power Plant Site Using Fuzzy Analytic Network Process". Clean Technologies and Environmental Policy. Vol. 20, No. 5. pp 1033-1046. doi: 10.1007/s10098-018-1531-5.
- Zeinab Neisani Samani, Mohamad Karimi, and Ali A. Alesheikh (2018). "A New Site Selection Approach Based on Participatory Multi-Criteria Decision Making through Geosocial media- Case study: Shopping centers". International Journal of Geo-Information. Vol. 7(3), No. 82. Pp. 1 – 11. doi:10.3390/ijgi7030082.
- Mahsa Mirhosseini, Parvin Farshchi, Ali Akbar Noroozi, Mahmood Shariat, and Ali A. Alesheikh (2018). "Changing land use a threat to surface water quality: a vulnerability assessment approach in Zanjanroud Watershed, Central Iran." Water Resources. Vol. 45, No. 2, pp. 268–279. DOI: 10.1134/S0097807818020100.
- Mohsen Ahmadkhani, Ali A. Alesheikh, Sahar Khaki Firouz and Mostafa Salehi Vaziri, (2018).
 "Space-Time Epidemiology of Crimean-Congo Hemorrhagic Fever (CCHF) in Iran". Ticks and Tick-Borne Diseases. Vol. 9. pp 207-216. DOI: 10.1016/j.ttbdis.2017.09.006
- 31. Samira Bolouri, Alireza Vafaeinejad, Ali A. Alesheikh, Hossein Aghamohammadi (2018). "The Ordered Capacitated Multi-Objective Location-Allocation Problem for Fire Stations Using Spatial Optimization." International Journal of Geo-Information. International Journal of Geo-Information. Vol. 7(2), No. 44. pp 1 - 20 doi:10.3390/ijgi7020044.
- 32. Yasser Ebrahimian Qajari, Ali A. Alesheikh, Mahdi Modiri, Reza Hosnavi, Morteza Abbasi, and Ayyoob Sharifi (2018). "Urban vulnerability under various blast loading scenarios: Analysis using GIS-based multi-criteria decision analysis techniques." Cities. Vol. 72, Part A, pp 102-114. https://doi.org/10.1016/j.cities.2017.08.006
- 33. Navid Hooshangi and Ali A. Alesheikh (2018). "Developing an agent-based simulation system in earthquake USAR in uncertainty conditions: Providing a method for tasks allocation and collaboration among agents". International Journal of Geo-Information. Vol. 7, No .27. pp. 1 22. doi:10.3390/ijgi7010027.
- 34. Shima Fallah Araghi, **Ali A. Alesheikh** and Saeed Behzadi (2017). "Investigating the temporal, spatial, and changing trend of distribution of atmospheric air pollution emissions using GIS in Tehran". Journal of Research in Ecology. Vol. 5, No. 2. pp 1227-1248.
- 35. Mahsa Mirhosseini, Parvin Farshchi, Ali Akbar Noroozi, Mahmood Shariat, and Ali A. Alesheikh (2017). "An investigation on the effect of land use land cover changes on surface water quantity". Water Science Technology: Water Supply. Vol. 18, No. 2. pp 490 503. 10.2166/ws.2017.107.
- 36. Roya Habibi, Ali A. Alesheikh, Ali Mohammadinia and Mohammad Sharif (2017). "An Assessment of Spatial Pattern Characterization of Air Pollution: A Case Study of CO and PM_{2.5} in Tehran, Iran." International Journal of Geo-Information. Vol. 6, No. 6. pp 270 doi:10.3390/ijgi6090270.
- Navid Hooshangi and Ali A. Alesheikh (2017). "Agent-Based Task Allocation under Uncertainties in Disaster Environments: an Approach to Interval Uncertainty" International Journal of Disaster Risk Reduction. Vol. 24, pp 161-171. doi.org/10.1016/j.ijdrr.2017.06.010.
- Omid Reza Abbasi, Ali A. Alesheikh and Mohammad Sharif (2017). "Ranking The City: The role of Location-Based Social Networks in Collective Human Mobility Prediction." International Journal of Geo-Information. Vol. 6, NO. 5. pp 136 doi:10.3390/ijgi6050136.

- 39. Yasser Ebrahimian Qajari, Y., Ali A. Alesheikh, Mahdi Modiri, Reza Hosnavi, and Morteza Abbasi (2017). "Spatial modeling of urban physical vulnerability to explosion hazards using GIS and fuzzy MCDA." Sustainability, Vol. 9, No. 7. Pp. 1-29. doi:10.3390/su9071274.
- 40. Mohsen Ahmadkhani and Ali A. Alesheikh (2017). "Space-time Analysis of Human Brucellosis Considering Environmental Factors in Iran". Asian Pacific Journal of Tropical Disease. Vol. 7, NO.5. pp. 257-265. DOI :10.12980/apjtd.7.2017D6-353
- 41. Mohammad Eskandari, Babak Omidvar, Mahdi Modiri, Mohammad Ali Nekooie, **Ali Asghar Alesheikh** (2017). "Analysis of the damage probability to water pipelines due to Multi-Hazard Failure of Earthquake based on geo-spatial analysis. International Journal of Geo-Information. Vol. 6, NO.6. pp.1-19. doi:10.3390/ijgi6060169.
- 42. Mahdi Hashemi, Ali A. Alesheikh and Mohammad Reza Zolfaghari (2017). "A GIS-based timedependent seismic source modeling of Northern Iran". Earthquake Engineering and Engineering Vibration. Vol. 16, No.1. pp. 33-45. DOI: 10.1007/s11803-017-0366-0
- 43. Mohammad Sharif and Ali A. Alesheikh (2017). "Context-awareness in Similarity Measures and Pattern Discoveries of Trajectories: A Context-based Dynamic Time Warping Method". GIScience and Remote Sensing Journal. Vol. 54, Issue 2. Pp 1-27. http://dx.doi.org/10.1080/15481603.2017.1278644
- 44. Neda Kaffash Charandabi and **Ali A. Alesheikh** (2017). "Context Inference and Prediction Modeling in Ubiquitous Health GIS". Transaction in GIS. Vol. 21, Issue 6. Pp. 1098-1114, Vol. 21, Issue 6. Pp. 1098-1114, DOI: 10.1111/tgis.12263
- 45. Ali Kalantari Oskouei, Mahdi Modiri, Ali A. Alesheikh, Reza Hosnavi (2016). "Assessment of Spatial Data Infrastructure from a Risk Perspective". International Journal of Spatial Data Infrastructures Research. Vol. 11, Pp. 98-127. DOI: 10.2902/1725-0463.2016.11.art6
- 46. Meisam Jafari, Hamid Majedi, Seyed Masoud Monavari, Ali A. Alesheikh, and Mirmasoud Kheirkhah Zarkesh (2016). "Dynamic simulation of urban expansion through a CA-Markov model. Case study: Hyrcanian region, Gilan, Iran." European Journal of Remote Sensing. Vol. 49, Pp. 513-529. doi: 10.5721/EuJRS20164927.
- 47. Mostafa Ghodousi, Ali A. Alesheikh and Bahram Saeidian (2016). "Analyzing public participant data to evaluate citizen satisfaction and to prioritize their needs via K-means, FCM and ICA." Cities. Vol. 55, pp. 70-81. DOI: 10.1016/j.cities.2016.03.015
- 48. Meisam Jafari, Seyed Masoud Monavari, Hamid Majedi, Ali A. Alesheikh, and Mirmasoud Kheirkhah Zarkesh (2016). "Dynamic simulation of urban expansion based on cellular automata and logistic regression model: Case study of Hyrcanian region of Iran." Sustainability. Vol. 8, No. 8. Pp. 1-18. doi:10.3390/su8080810.
- Mohammad H. Vahidnia, Ali A. Alesheikh and Seyed Kazem Alavipanah (2015). "A multi-agent architecture for geosimulation of moving agents." Journal of Geographical Systems. Vol. 17, No. 4, pp. 353-390.
- 50. Mohammad R. Kamali, Ali A. Alesheikh, Zahra Khodaparast, Seyed Mahmoud Hosseinnia Niakani and Seyedeh Azadeh Alavi Borazjani (2015). "Application of Delphi-AHP and Fuzzy-GIS Approaches for Site Selection of Large Extractive Industrial Units in Iran." Journal of Settelment and Spatial Planning. Vol. 6, No. 6, pp. 9-17.

- 51. Saeed Behzadi and Ali A. Alesheikh (2014). "Developing a BDI Agent Model for Solving Shortest Path Problem on a Raster Data Model." Caspian Journal of Applied Sciences Research. Vol. 3, No. 9, pp. 1-15.
- 52. Farhad Hosseinali, Ali A. Alesheikh and Farshad Noorian (2014). "Rapid Urban Growth in the Qazvin Region and Its Environmental Hazards: Implementing an Agent-Based Model". Polish Journal of Environmental Studies. Vol. 23, No. 3. pp 727-735.
- 53. Mohammad H. Vahidnia and **Ali A. Alesheikh** (2014). "Plain move predicate and its consistency concerning the moving agents in a network" International Journal of Geographical Information Science. Vol. 28, No. 11, pp. 2145-2177.
- Farhad Hosseinali, Ali A. Alesheikh and Farshad Noorian (2014). "Assessing Urban Land-use Development: Developing an Agent-based Model ". KSCE Journal of Civil Engineering. Vol. 111, No. 4. pp 285-295.
- 55. Mohammad H. Vahidnia and **Ali A. Alesheikh** (2014). "Ontological exploration of geospatial objects in context" Geo-Spatial Information Science. Vol. 17, No. 2, PP. 129-138.
- Reza Kalbasi, Krzysztof Janowicz, Femke Reitsma, Luc Boerboom and Ali Asghar Alesheikh (2014).
 "Collaborative Ontology Development for the Geosciences. Transactions in GIS. Vol. 18, No. 6. Pp. 834-851.
- 57. Saeed Behzadi and Ali A. Alesheikh (2013). "Cellular Automata vs. Object-Automata in Traffic Simulation." International Journal of Remote Sensing Applications. Vol. 4, No.1, pp. 61-69.
- Farhad Hosseinali and Ali A. Alesheikh (2013). "Assessing Urban Land-Use Expansion in Regional Scale by Developing a Multi-Agen System". International Journal of Humanities. Vol. 20, No. 2. pp 23-44.
- 59. Mohammad H. Vahidnia, **Ali A. Alesheikh**, Saeeed Behzadi and Sara Salehi (2013). "Modeling the spread of spatio-temporal phenomena through the incorporation of ANFIS and genetically-controlled cellular automata: A case study on forest fire." International Journal of Digital Earth, Vol. 6, No.1, pp. 51-75.
- 60. Mahdi Hashemi, **Ali A. Alesheikh** and Mohammad Reza Zolfaghari (2013). "GIS: Agent-based modeling and evaluation of an earthquake-stricken area with a case study in Tehran, Iran". Natural Hazards. Vol. 69, No.3. pp. 1895-1917.
- 61. Saeed Behzadi and Ali A. Alesheikh (2013). "Introducing a novel model of Belief-Desire-Intention Agent for Urban Land Use Planning." Engineering Application of Artificial Intelligence. Vol. 26, No.9, pp. 2028-2044.
- Saba Reza Soltani, Abdolrassoul Salman Mahiny, Seyed Masoud Monavari, and Ali Asghar Alesheikh (2013). "Sustainability through Uncertainty Management in Urban Land Suitability Assessment." Environmental Engineering Science. Vol. 30, No. 4. Pp. 170-178.
- Mahdi Hashemi, Ali A. Alesheikh and Mohammad Reza Zolfaghari (2013). "A spatio-temporal model for probabilistic seismic hazard zonation of Tehran" Computers and Geosciences, Vol. 58, No.8, pp. 8-18.
- 64. Saeed Behzadi and Ali A. Alesheikh (2013). "Hospital Site Selection Using a BDI Agent Model". International Journal of Geography and Geology. Vol. 2, No. 4, pp. 36-51.

- 65. Nasser Moharamnejad, hassanali Laghai, Reza Arjmandi, Ali A. Alesheikh and Hamid Bahmanpour (2013). "Ecological Capability Evaluation of Outdoor Recreation by Integrating Geographic Information System (GIS) and Index Overlaying (IO) (Case Study: Shahrood County – Iran)." Arabian Journal of Scienceand Engineering. Vol. 38, No. 1, Pp. 121-134.
- 66. Farideh Atabi, F. Moattar, N. Mansouri, Ali A. Alesheikh and S. A. H. Mirzahosseini (2013). "Assessment of variations in benzene concentration produced from vehicles and gas stations in Tehran using GIS." International Journal of Environmental Science and Technology, Vol. 10, No. 2. Pp. 283-294.
- Hassan Gazmeh, Ali A. Alesheikh, Mohammad Karimi, Alireza Chehreghan (2013). "Spatio-Temporal Forest Fire Spread Modeling Using Cellular Automata, Honey Bee Foraging and GIS". Bulletin of Environment, Pharmacology and Life Sciences. Vol. 3, No. 1. Pp. 201-214.
- 68. Mahdai Naghdi Sedeh, and **Ali A. Alesheikh** (2013). "Evaluation and Implementation of a Geographic Service base on Cloud Computing Technology", Research Journal of Environmental and Earth Science, ISSN 2041-0484. (Accepted).
- 69. Farhad Hossinali, Ali A. Alesheikh and Farshad Nourian (2012). "Simulation of Land-Use Development Using a Risk-Regarding Agent-Based Model" Advances in Artificial Intelligence. doi:10.1155/2012/964148
- Mahdi Hashemi and Ali A. Alesheikh (2012). "Development and implementation of a GIS-based tool for spatial modeling of seismic vulnerability of Tehran". Natural Hazard and Earth Systems Sciences. Vol. 12, pp. 3659-3670.
- Mohammad H. Vahidnia, Ali A. Alesheikh and Mohammad R. Malek (2012). "Logic-based topological relations of vague moving regions: Computational models for well-behaved GIS solutions." Journal of Spatial Sciences. Volume 57, No. 2, pp. 259-281.
- 72. Farhad Hosseinali, Ali A. Alesheikh and Farshad Nourian (2012). "Agent-based Modeling of Urban Land-use Development, Case study: Simulating Future Scenarios of Qazvin City" Cities. No. 31. Pp: 105-113.
- Hamidreza Zoraghein, Ali A. Alesheikh, Abbas Alimohammadi, and Mohammad H. Vahidnia (2012).
 "The utilization of soft transformation and genetic algorithm to model two sources of uncertainty of indicator Kriging." Computers, Environment and Urban Systems. Vol. 36, No. 6, pp. 592-598.
- 74. Farhad Hosseinali and Ali A. Alesheikh (2012). "Developing a bilateral allocation approach to determine the optimum land-uses." Journal of Basic and Applied Scientific Research. Vol. 2, No. 4. pp 3492-3502.
- 75. Mohammad H. Vahidnia, Mohammad R. Malek, Nazila Mohammadi and Ali A. Alesheikh, (2013). "A hierarchical signal-space partitioning technique for indoor positioning with WLAN to support location-awareness in mobile map services." Wireless Personal Communications. Vol. 69, No. 2. pp 689-719.
- 76. Jafar Nouri, Reza Arjmandi, **Ali A. Alesheikh** and Abolghassem Mirhosseinin (2012). "Identifying, weighting, and prioritization of desert and semi-desert sustainable ecotourism criteria in central regions of Iran by method of (AHP) (Case study of Yazd desert)." Archives Des Sciences Journal. Vol. 65, No. 3, Pp. 1-29.

- 77. Nasser Moharamnejad, Hassanali Laghai, Reza Arjmandi, Ali A. Alesheikh and Hamid Bahmanpour (2012). "Investigating and identifying natural attraction and environmental potential for sport tourism development from user viewpoint." Advances in Environmental Biology. Vol. 6, No. 3, Pp. 1200-1208.
- 78. Parvaneh Peykanpourfard, Masoud Monavvari1, Ali A. Alesheikh, Atefeh Chamani, and Fariba Ghanbari (2012). "Prediction of spatial distribution for some land use allometric characteristics in land use planning models with geostatistic and Geographical Information System (GIS) (Case study: Boein and Miandasht, Isfahan Province, Iran)." African Journal of Biotechnology. Vol. 11, No. 91, pp. 15771-15778.
- 79. Hassan Gazmeh, Ali A. Alesheikh and Mohammad Karimi (2012). "A New methodology in Modelling Forest Fire Spread Using Cellular Automata". Journal of Advanced Science and Engineering Research. Vol 2, No 4. Pp. 308-322.
- 80. Mohammadali A. Rajabi, Ali A. Alesheikh, Alireza Chehreghan, and Hassan Gazmeh (2013). "An Innovative Method for Forest Fire Risk Zoning Map Using Fuzzy Inference System and GIS". International Journal of Scientific & Technology Research. Vol 2, No 12. Pp. 57-64.
- 81. Mahdi Hashemi and **Ali A. Alesheikh** (2011). "A GIS-based earthquake damage assessment and settlement methodology" Soil Dynamics and Earthquake Engineering, Vol. 31, No. 11, pp 1607-1617.
- 82. Reza Kalbassi and Ali A. Alesheikh (2011)." WATS: 3D web-based system for disaster management" International Geoinformatics Research and Development Journal. Vol. 2, No. 4.
- Mahsa Amini, Ali A. Alesheikh and Ebrahim Poorazizi (2011). "A Service-Oriented Architecture for Distributed Geoprocessing- A Case Study of Landslide Susceptibility Mapping" International Review on Computers and Software, Vol. 6, No.4, pp. 527-533.
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- 85. Mohammadreza Jelokhani, Ali A. Alesheikh, Abbas Alimohammadi, Abolghassem Sadeghi Niaraki and Keyhon Kim (2011). "An approach for automatic update of GIS road segments for a pavement management system (PMS)". Journal of Spatial Sciences, Vol. 56, No. 2, pp 253-256.
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<u>Refereed Conference Publications</u> (More than 80)

RESEARCH INTERESTS

Spatial Intelligent Computations and Modelling, Health GIS, Semantic Web, Intelligent Agents, Disaster Management, Design and Implementation of Spatial Data Infrastructures,

RESEARCH PROJECTS

May/2000 –*Now* **Project Manager of:**

- **Developing an Agent-based Simulation System for Crisis Management** (Earthquake Rescue Operation) financially sponsored by Iran National Science Foundation
- *The Evaluation and Development of Methods for National Spatial Data Infrastructure Assessment financially sponsored by National Cartographic Centre*
- **A Feasibility Study of GIS Implementation in Railroads,** financially sponsored by The Railways of the Islamic Republic of Iran
- Strategic Planning for Disaster Management on the Internet financially sponsored by Tehran Disaster Mitigation and Management Organization
- **Design and Implementation of a Mobile GIS for Gas Company** financially sponsored by Iranian Gas Transmission Company
- Needs Analysis and Conceptual Design of GIS for Telecommunication Infrastructure Company (TIC) financially sponsored by Iranian Telecommunication Centre
- Design and Development of a spatial Database for Foolad Mobarakeh Company financially sponsored by Foolad Mobarakeh Complex
- *Feasibility Studies of GIS Applications in Power Industry financially sponsored by Tehran Regional Electric Company.*
- *The Development of a National Spatial Data Clearinghouse*" *financially sponsored by the ministry of communication and Information Technology.*
- **Design and Implementation of a National Spatial Data Standard** financially sponsored by Iranian Remote Sensing Centre.
- Feasibility Studies of Intelligent Transportation Systems for Traffic Management financially sponsored by Road Ministry.
- **Developing a Tracking System for Fleet Management** financially sponsored by Road Ministry.
- *Iranian Roads Web GIS* financially sponsored by Terminal and Transportation Organization.