

# ALI A. ALESHEIKH

## *Full Professor*

Department of GIS, Faculty of Geodesy and Geomatics Engineering  
K.N. Toosi University of Technology  
Valiasr Street, Mirdamad Cross, Tehran, Iran.  
P.C. 19967-15433  
Tel: (+9821) 8878-6212, Fax: (+9821) 8878-6213  
E-Mail: [alesheikh@kntu.ac.ir](mailto:alesheikh@kntu.ac.ir)



## 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
- Sept. 91 – Sept. 93*      **The University of New Brunswick, Fredericton, Canada**  
M.Eng. in Surveying 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  
Department of Surveying Engineering, K.N. Toosi Technical University, Tehran, Iran.

## PROFESSIONAL WORK EXPERIENCE

- Feb. 2013 – present*      **Full Professor**, Department of GIS, Faculty of Geodesy and Geomatics Engineering, K.N. Toosi University of Technology, Tehran, Iran.
- Oct. 2007 – Feb. 2013*      **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

- 2005, 2010, 2013*      **Research Recognition Award**, K.N. Toosi University of Technology, Tehran, Iran.
- 2008*      **Best Paper Presentation Award**, 11<sup>th</sup> 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.

## SCIENTIFIC MEMBERSHIPS

- 2010, 2016        Scientific Committee member of ICOPMAS 2010, 2016 Conference
- 2010, 2016        Member of the Review Board of GSDI 12 World Conference
- 2009 – present    Member of the Editorial Board of Journal of Geomatics Science and Technology and Surveying Engineering (In Persian)
- 2008 – present    Member of the Editorial Board of Marine Journal of Science and Technology (In Persian)
- 2008 – present    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”

## STUDENT SUPERVISION

- 2001 – 2017      15 Ph.D. Students
- 2001 – 2017      63 M.Sc. Students

## RECENT PUBLICATIONS (in English)

### Book Chapters

1. 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 Staas Geertman, Wolfgang Reinhardt, and Fred Toppen, Springer-Verlag Berlin Heidelberg. ISBN: 978-3-642-19788-8.
2. **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.

3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.

### **Peer-refereed Journal Papers**

12. Navid Hooshangi and **Ali A. Alesheikh**, Mahdi Panahi and Saro Lee (2021). "Urban search and rescue (USAR) simulation system: spatial strategies for agent task allocation under uncertain conditions". Natural Hazards and Earth System Sciences. Vol. 21, No. 11, pp. 3449-3463. <https://doi.org/10.5194/nhess-21-3449-2021>.
13. Elnaz Babaei, **Ali A. Alesheikh** and Mohammad Tabassi (2021). "Spatial modeling of zoonotic cutaneous leishmaniasis with regard to potential environmental and climatic factors using ANFIS and PCA-ANFIS methods". Acta Tropica. (Accepted).
14. Mehri Davtala and **Ali A. Alesheikh** (2021). "A Multi-criteria Point of Interest Recommendation Using the Dominance Concept." Journal of Ambient Intelligence and Humanized Computing. <https://doi.org/10.1007/s12652-021-03533-x>.

15. Elnaz Babae, **Ali A. Alesheikh** and Mohammad Tabassi (2021). "Spatial prediction of human brucellosis (HB) using a GIS-based adaptive neuro-fuzzy inference system (ANFIS)". *Acta Tropica*. Vol. 220, <https://doi.org/10.1016/j.actatropica.2021.105951>.
16. Mahdi Panahi, Peyman Yariyan, Fatemeh Rezaie, Sung Won Kim, Alireza Sharifi, Ali Asghar Alesheikh, Jongchun Lee, Jungsub Lee, Seonhong Kim, Juhee Yoo and Saro Lee (2021). "Spatial modeling of radon potential mapping using deep learning algorithms". *Geocarto International*. <https://doi.org/10.1080/10106049.2021.2022011>.
17. Sina Abolhoseini and **Ali A. Alesheikh** (2021). "Dynamic Routing with Ant System and Memory-Based Decision Making Process". *Environment Systems and Decisions*. Vol. 41. Pp. 198-211. <https://doi.org/10.1007/s10669-020-09788-7>.
18. Mohammad Naghavi, **Ali A. Alesheikh**, Farshad Hakimpour, and Mohammad Hassan Vahidnia, (2021). "A conflation of rights-based spatial data infrastructure and volunteered geographic information for land management and policymaking". *Land Use Policy*. (Accepted).
19. Saeed Mehri, **Ali A. Alesheikh**, and Anahid Basiri (2021). "A Contextual Hybrid Model for Vessel Movement Prediction." *IEEE Access*. Vol 9. Pp. 45600-45613. Doi:10.1109/ACCESS.2021.3066463.
20. Danial Alizadeh, **Ali A. Alesheikh** and Mohammad Sharif (2021). "Prediction of Vessels Locations and Maritime Traffic Using Similarity Measurement of Trajectory" *Annals of GIS*. Vol. 27, No. 2, pp. 151-162. <https://doi.org/10.1080/19475683.2020.1840434>.151
21. Reza Shirzad, **Ali A. Alesheikh**, Mohsen Ahmadkhani and Saiedreza Naddaf (2021). "Aedes albopictus: A Spatial Risk Mapping of the Mosquito Using Geographic Information System in Iran". *Applied Geomatics*. Vol. 13, No. 4, pp. 691–700. <https://link.springer.com/article/10.1007/s12518-021-00375-2>
22. Mehri Davtalab and **Ali A. Alesheikh** (2021). "A POI recommendation approach integrating social spatio-temporal information into probabilistic matrix factorization". *Knowledge and Information Systems*. Vol. 63. Pp. 65-85. <https://doi.org/10.1007/s10115-020-01509-5>.
23. Mohammad Tabassi and **Ali A. Alesheikh** (2021). "Spatiotemporal variability of Zoonotic Cutaneous Leishmaniasis based on sociodemographic heterogeneity. The case of Northeastern Iran, 2011-2016". *Japanese Journal of Infectious Diseases*. Vol 74, No. 1, pp. 7-16. <https://doi.org/10.7883/yoken.JJID.2020.048>.
24. Danial Alizadeh, **Ali A. Alesheikh** and Mohammad Sharif (2021). "Vessel Trajectory Prediction Using Historical Automatic Identification System Data" *Journal of Navigation*. Vol 74, No. 1, Pp. 156-174. doi:10.1017/S0373463320000442.
25. Alireza Vafaeinejad, Samira Bolouri, **Ali A. Alesheikh**, Mahdi Panahi and Chang-Wook Lee (2020)" The Capacitated Location-Allocation Problem Using the VAOMP (Vector Assignment Ordered Median Problem) Unified Approach in GIS (Geospatial Information System). " *Applied Sciences*. Vol. 10. No. 23. 8050- <https://doi.org/10.3390/app10238505>.
26. Mohammad Tabassi and **Ali A. Alesheikh**, Aioub Sofizadeh, Bahram Saeidian, Biswajeet Pradhan, Abdollah AlAmri (2020). "A Spatio-temporal Agent-based Approach for Modelling the Spread of Zoonotic Cataneous Leishmaniasis in Northern Iran." *Parasites & Vectors*. Vol. 13, No. 1, 572. <https://doi.org/10.1186/s13071-020-04447-x>.
27. Zahra Chatrsimab, **Ali A. Alesheikh**, Behzad Vosooghi, Saeed Behzadi and Mahdi Modiri (2020). " Development of a land subsidence forecasting model using SBAS-DInSAR and PSO–RF (Case study: Tehran-Karaj-Shahriyar Aquifer, Iran)". *Doklady Earth Sciences*. Vol. 494, Part 1, pp. 718-725. DOI:10.1134/S1028334X20090056.

28. Sina Abolhoseini and **Ali A. Alesheikh** (2020). "A New Algorithm to Consider Critical Length of Grades in Raster-Based Least-Cost Path Analysis". *Arabian Journal of Geosciences*. Vol. 13. No.19. 1032. <https://doi.org/10.1007/s12517-020-06018-x>.
29. Samira Bolouri, Alireza Vafaeinejad, **Ali A. Alesheikh** and Hossein Aghamohammadi (2020). " Minimizing response time to accidents in big cities: A two ranked level model for allocating fire stations " *Arabian Journal of Geosciences*. Vol. 13. No. 16. 758. <https://doi.org/10.1007/s12517-020-05728-6>.
30. Zeinab Neisani Samani, Mohamad Karimi, and **Ali A. Alesheikh** (2020). "Environmental and infrastructural effects on respiratory disease exacerbation: a LBSN and ANN-based spatio-temporal modelling". *Environmental Monitoring and Assessment*. Vol. 192. No. 2. 90. doi:10.1007/s10661-019-7987-x.
31. Zahra Chatrsimab, **Ali A. Alesheikh**, Behzad Vosooghi, Saeed Behzadi and Mahdi Modiri (2020). "Land subsidence modelling using Particle Swarm Optimization Algorithm and Differential Interferometry Synthetic Aperture Radar" *Ecopersia* Vol. 8, No. 2. Spring 2020.
32. Samira Bolouri, Alireza Vafaeinejad, **Ali A. Alesheikh** and Hossein Aghamohammadi (2020). " Environmental sustainable development with optimizing location of urban facilities using Vector Assignment Ordered Median Problem integrated GIS " *International Journal of Environmental Science and Technology*. Vol. 17, No. 5, pp. 3033-3054 <https://doi.org/10.1007/s13762-019-02573-3>.
33. 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>.
34. Sepehr Honarparvar, Rouzbeh Forouzandeh Jonaghani, **Ali A. Alesheikh** and Behnam Atazadeh (2019). "Improvement of a Location-Aware Recommender System Using Volunteered Geographic Information". *Geocarto International*. Vol. 34, No. 13. Pp. 1496-1513. <https://doi.org/10.1080/10106049.2018.1493155>.
35. Mostafa Ghodousi, **Ali A. Alesheikh**, Bahram Saeidia, Biswajeet Pradhan and Chang-Wook Lee (2019). "Evaluating Citizen Satisfaction and Prioritizing Their Needs Based on Citizens' Complaint Data." *Sustainability*. Vol. 11, No. 17. 4595, pp. 1-24. <https://doi.org/10.3390/su11174595>.
36. 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*. Issue 12. Pp. 615-628. <https://doi.org/10.1007/s12145-019-00389-w>.
37. 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.
38. 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. <https://doi.org/10.1016/j.compenvurbsys.2019.101349>.
39. Wei Chen, Haoyuan Hong, Mahdi Panahi, Himan Shahabi, Yi Wang, Ataollah Shirzadi, Saied Pirasteh, **Ali Asghar Alesheikh**, Khabat Khosravi, Somayeh Panahi, Fatemeh Rezaie, Shaojun Li, Abolfazl Jaafari, Dieu Tien Bui, and Baharin Bin Ahmad (2019). "Spatial prediction of landslide susceptibility using GIS-based data mining techniques of ANFIS with Whale Optimization Algorithm (WOA) and Grey Wolf Optimizer (GWO)". *Applied Sciences*. Vol. 9, 3755, doi:10.3390/app9183755.

40. 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).
41. 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>.
42. 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.
43. 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.
44. 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>.
45. 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
46. Mohammad Eskandari, Babak Omidvar, Mahdi Modiri, Mohammad Ali Nekooie, **Ali A. 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>.
47. 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.
48. 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.
49. Zeinab Neisani Samani, Mohamad Karimi, and **Ali A. Alesheikh** (2018). "A Novel Approach to Site Selection: Collaborative Multi-Criteria Decision Making through Geosocial media- Case study: Public Parking". *International Journal of Geo-Information*. Vol. 7(3), No. 82. Pp. 1 – 11. doi:10.3390/ijgi7030082.
50. 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.
51. 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
52. 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*. Vol. 7(2), No. 44. pp 1 - 20 doi :10.3390/ijgi7020044.
53. 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>
  54. 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.
  55. 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.
  56. 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.
  57. 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<sub>2.5</sub> in Tehran, Iran.” *International Journal of Geo-Information*. Vol. 6, No. 6. pp 270 doi:10.3390/ijgi6090270.
  58. 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.
  59. 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.
  60. 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.
  61. 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
  62. 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.
  63. Mahdi Hashemi, **Ali A. Alesheikh** and Mohammad Reza Zolfaghari (2017). “A GIS-based time-dependent 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.
  64. 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*. Vol. 54, Issue 2. (Accepted).
  65. 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.

66. Neda Kaffash Charandabi and **Ali A. Alesheikh** (2016). "Context Inference and Prediction Modeling in Ubiquitous Health GIS." *Transaction in GIS*. (Accepted).
67. 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.
68. 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.
69. 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.
70. Mahsa Mirhosseini, Parvin Farshchi, Ali Akbar Noroozi, Mahmood Shariat, and **Ali A. Alesheikh** (2015). "Changing land use a threat to surface water quality: a vulnerability assessment approach in Zanjanroud Watershed, Central Iran." *Water Resources*. (Accepted)
71. 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 Settlement and Spatial Planning*. Vol. 6, No. 6, pp. 9-17.
72. 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.
73. 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.
74. 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.
75. 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.
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### **Peer-refereed Conference Publications**

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146. Omid R. Abbasi and **Ali A. Alesheikh** and Mahdi Farnaghi (2016). "Ranking The City: The role of Location Based Social Networks in Collective Human Mobility Prediction." *Proc. Of 13th International Conference on Location-Based Services*. (14-15 Nov. 2016). Vienna, Austria.
147. Yousef Khajavigodellou, **Ali A. Alesheikh**, Farshad Hakimpour and Kamran Chapi (2015). "Optimizing Urban Modeling based on Road Network and Land Use/Cover Changes by Using Agent Base – Cellular Automata Model." *Proc. Of GeoComputation 2015 Conference* (20-25 May 2015). Dallas, Texas, United States.
148. Roya Habib and **Ali A. Alesheikh** (2015). "Assessment of completeness and positional accuracy of linear features in Volunteered Geographic Information (VGI)." *Proc. Of The 3rd International Conference on Sensors and Models in Photogrammetry and Remote Sensing (SMPR 2015)*. 23-25 November, 2015, Kish, Tehran, Iran.
149. Mohammad Eshghi and **Ali A. Alesheikh** (2015). "Incorporation of Geosensor Networks Into Internet Of Things For Environmental Monitoring." *Proc. Of The 3rd International Conference on Sensors and Models in Photogrammetry and Remote Sensing (SMPR 2015)*. 23-25 November, 2015, Kish, Tehran, Iran.
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152. Farideh Teymurian, **Ali A. Alesheikh**, Abbas Alimohamdadi and Abolghassem Sadeghi Niaraki (2013). "VGI Based Urban Public Transport." *2nd ISPRS International conference on Sensors and Models in Photogrammetry and Remote Sensing (SMPR 2013)*. October 5-8. Tehran, Iran.

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155. Rasool Jalalifar, **Ali A. Alesheikh**, Amir Abouhamzeh, Omid Mehralian (2013). "Designing and Developing a new SDSS for Tourism Purposes" Proceedings of the "JOINT CIG ANNUAL CONFERENCE AND EOGC'2013" Conference 5-7 June 2013, Toronto, Ontario, Canada.
156. Behnam Atazadeh, **Ali A. Alesheikh**, Saeed Nadi and Mohammad R. Malek (2012). "Geospatial Web Services for Location Based Decision Support (Case Study: A Restaurant Finder for the City of Tehran)". XXII Congress of the International Society for Photogrammetry and Remote Sensing. Aug. 25 – Sept. 1, Melbourne, Australia.
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160. Milad Niroumand-Jadidi, Hossein Helali and **Ali A. Alesheikh** (2011). "Optimal Visualization of Satellite Imagery and Superimposed Vector Data; A New Trend to the Conceptual Visualization of Land-use Maps". Proceedings of the 25th International Cartographic Conference, 3-8 July 2011, Paris, France.
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167. Pouria Amirian, **Ali A. Alesheikh**, and Anahid Bassiri (2010)." Interoperable Exchange and Share of Urban Services Data through Geospatial Services and XML Database." The Fourth International Conference on Complex, Intelligent and Software Intensive Systems. February 15th – 18th 2010. Krakow, Poland.
168. **Ali A. Alesheikh**, Majid Riahi Samani (2010). "Applications of GIS to Evaluate Heavy Metal Accumulations in Underground Water Case Study: Examination of zinc, iron, chrome and arsenic for Shiraz drinking water" Proceedings of the 2nd International symposium on Environmental Engineering. Tehran, Iran, Jan. 19-20.
169. Alli Kalantari Oskouei and **Ali A. Alesheikh** (2010). "Geography Markup Language – Geo-metadata and web GIS" Proceedings of GIS 89 Conference, Tehran, Iran, Jan. 6.
170. Ali Javidaneh, Mahnaz Ataei, and **Ali A. Alesheikh** (2010). "Ambulance Routing with Ant Colony Optimization" Proceedings of GIS 89 Conference, Tehran, Iran, Jan. 6.
171. Ali Babaei, **Ali A. Alesheikh** and Saeed Behzadi (2008)." Using Geospatial Information System (GIS) for Locating the Best Water Quality Monitoring Stations "Proceedings of ACRS 2008 Conference, August 18-20. Colombo, Sri Lanka.
172. Anahid Bassiri, **Ali A. Alesheikh** and Mohammad R. Malek (2008)." Using fuzzy logic to generate topological relationships between fuzzy spatial objects" Proceedings of MapAsia 2008 Conference, August 18-20. Kuala Lumpur, Malaysia.
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175. Saeed Behzadi and **Ali A. Alesheikh** (2008). "A Pseudo Genetic Algorithm For Solving Best Path Problem" Proceedings of XXIth ISPRS Congress. Beijing, China, July 3-11.
176. Mohammad Hosseinpour, **Ali A. Alesheikh** and Majid Hamrah (2008)." Using SDI and WFS for Quality Assurance on Field Data Collection". Proceedings of XXIth ISPRS Congress. Beijing, China, July 3-11.
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178. Mohammad H. Vahidnia, **Ali A. Alesheikh**, Abbas Alimohammadi and Anahid Bassiri (2008). "Fuzzy Analytical Hierarchy Process in GIS Applications." Proceedings of XXIth ISPRS Congress. Beijing, China, July 3-11.
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## RESEARCH INTERESTS

Spatial Data Mining and Knowledge Discover, Context awareness, Agent-based Modeling, Spatial Data Infrastructure, Ubiquitous GIS

## RESEARCH PROJECTS

*May 2006 – present*

### **Project Manager of:**

**Developing an Agent-based Simulation System for Crisis Management** financially sponsored by Iran National Science Foundation.

**Assessing and Developing National Spatial Data Infrastructures** financially sponsored by National Cartographic Centre.

**Needs Analysis and Conceptual Design of GIS for Iranian Railways** financially sponsored by Iranian Railways.

**Designing a Strategic Plan for a Web Based Crisis Management System** financially sponsored by Tehran Municipality.

**Design and Implementation of a Mobile GIS for Gas Transmission** 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 Power Company.

**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.