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Employment
- Full Professor, Department of Physical Geography and Ecosystem Science, Lund University, Sweden, Since October 2023.
- Senior Lecturer, Department of Physical Geography and Ecosystem Science, Lund University, Sweden, August 2011 – October 2023.
- Assistant Professor, Department of GIS, Faculty of Geodesy and Geomatics Engineering, K.N.Toosi University of Technology, March 2005 – August 2011.

Education and training
- PhD, Geomatics Engineering with a thesis entitled: "Development of an SDI Conceptual Model and Web-based System to Facilitate Disaster Management", Faculty of Geodesy & Geomatics Eng., K.N.Toosi University of Technology, 2000-2005.
- MSc, Geomatics Engineering with a thesis entitled: "Evaluation of Geographical Information Systems (GIS) from Data Structure and Integration Level Point of View, with Integrated GIS (IGIS) Practical Test", Department of Geodesy and Geomatics Eng., Faculty of Civil Eng., K.N.Toosi University of Technology, 1997-1999.
- BSc, Surveying Engineering, K.N.Toosi University of Technology, 1993-1997.

Research Interests
Geospatial Artificial Intelligence (GeoAI)
- Deep Learning / Machine Learning
- Generative AI and Large Language Models (LLMs)

Spatial Data Infrastructures (SDI)
- Design, management, and evaluation
- Geospatial Web Services

Spatial Multicriteria Decision Analysis (MCDA)
- Multi-objective optimization
- Multi-attribute decision-making

Applications:
- Epidemiology and health
- Disaster risk management
- Land-use planning
- Climate change
- Sustainability

Highlights

- o Director of Lund University GIS Centre, since January 2022.
- o Coordinator of the GIS and Remote Sensing Master Programme, Dept. of Physical Geography and Ecosystem Science, Lund University, Sweden, since 2020.
- o Board member, Dept. of Physical Geography and Ecosystem Science, Lund University, 2021-2023.
- o PI and member of "Nature-based future solution" profile area in LU, Since Feb 2023.
- o Council member of Association of Geographic Information Laboratories in Europe (AGILE), two terms, 2015-2023.
- o Member of UN GGIM Academic Network, since March 2021.
- o Member of Open Geospatial Consortium (OGC), since 2021.
- o Leader of several large international and national projects relevant to GeoAI, SDI and GIS.
- o Teaching master courses: Geospatial Artificial Intelligence (GeoAI), Web GIS, Geographical Databases, Spatial Data Infrastructures (SDI).
- o Teaching PhD courses: Spatial Analysis, GISceince, Spatial Data Infrastructures.
- o Publication of 150+ scientific journal/conference papers, books/book chapters, and technical reports.

Leadership of Research Group

Current members

- Pengxiang Zhao
- Rachid Oucheikh
- Clarisse Kagoyire
- Gilbert Nduwayezu
- Jean-Nicolas Poussart
- Nuwanthi Arampola
- Chansopheaktra Sovann
- Ali Hakimi
- Miras Kosgan

Previous members

- Mahdi Farnaghi
- Muzaffar Matchanov
- Weiming Huang
- Olive Niyomubyeyi
- Augustus Aturinde
- Ehsan Abdolmajidi
- Mohammad Reza Rajabi Gurandani
- Tome Eduardo Sicuaio
- Aron Polner
- Arvid Pilesjö
- Sam Sarwat
- Olga Dahlberg

Scientific Refereed Publications

1. ***Mansourian, A.***, Oucheikh, R. (2024). ChatGeoAI: Enabling Geospatial Analysis for Public through Natural Language, with Large Language Models, International Journal of Geo-Information, 13 (10), 348.

2. Olsson, P.O., Zhao, P., Muller, M., ***Mansourian, A.,*** Ardö, J. (2024). Combining Sentinel-2 Data and Risk Maps to Detect Trees Predisposed to and Attacked by European Spruce Bark Beetle, Remote Sensing, 16(22), 4166.

3. Utumatwishima, J. N., Mogren, I., Elfving, K., Umubyeyi, A., ***Mansourian, A.,*** Krantz, G. (2024). Women's exposure to intimate partner violence and its association with child stunting: findings from a population-based study in rural Rwanda. *Global Health Action*, *17*(1).

4. Nduwayezu, G., Kagoyire, C., Zhao, P., Eklund, L., Pilesjo, P., Bizimana, J.P., *Mansourian, A.* (2024). Spatial Machine Learning for Exploring the Variability in Low Height-For-Age From Socioeconomic, Agroecological, and Climate Features in the Northern Province of Rwanda, GeoHealth, 8, e2024GH001027.

5. Sicuaio, T., Zhao, P., Polesjo, P., Shindyapin, A., *Mansourian, A.* (2024). A Multi-Objective Optimization Approach for Solar Farm Site Selection: Case Study in Maputo, Mozambique, Sustainability, 16(17), 7333.

6. Zhao, S., Fan, Y., Zhao, P., *Mansourian, A.*, Ho, H.C. (2024). How do taxi drivers expose to fine particulate matter (PM2.5) in a Chinese megacity: a rapid assessment incorporating with satellite-derived information and urban mobility data, International Journal of Health Geographies, 23(9).

7. Sicuaio, T., Zhao, P., Polesjo, P., Shindyapin, A., *Mansourian, A.* (2024). Sustainable and Resilient Land Use Planning: A Multi-Objective Optimization Approach, ISPRS International Journal of Geo-Information, 13(3), 99.

8. Utumatwishima, J.N., Mogren, I., Umubyeyi, A., *Mansourian, A.*, Krantz, G. (2024). How do household living conditions and gender-related decision-making influence child stunting in Rwanda? A population-based study, PLoS ONE, 19(3), e0290919.

9. Naghibi, A., Hashemi, H., Zhao, P., Bragaard, S., Eklund, L., Hamid Hassan, H., *Mansourian, A.* (2024). Spatiotemporal variability of dust storm source susceptibility during wet and dry periods: The Tigris-Euphrates River Basin, 15, Atmospheric Pollution Research.

10. Ndagijimana, A., Nduwayezu, G., Kagoyire, C., Elfving, K., Umubyeyi, A., *Mansourian, A.*, Lind, T. (2024). Childhood stunting is highly clustered in Northern Province of Rwanda: A spatial analysis of a population-based study, Heliyon, e24922.

11. Nduwayezu, G., Zhao, P., Kagoyire, C., Eklund, L., Bizimana, J.P., Pilesjo, P., *Mansourian, A.* (2023). Understanding the spatial non-stationarity in the relationships between malaria incidence and environmental risk factors using Geographically Weighted Random Forest: A case study in Rwanda, Geospatial Health, 18(1), 1184.

12. Guo, Z., Zhao, P., Senousi, A.M., Liu, X., *Mansourian, A.* (2023). Exploring the structural characteristics of intra-urban shared freight network and their associations with socioeconomic status, Travel Behaviour and Society, 32, 100576.

13. Li, A., Zhao, P., Liu X., *Mansourian*, A., Axhausen, K.W., Qu, X. (2022). Comprehensive comparison of e-scooter sharing mobility: evidence from 30 European cities, Transportation Research Part D: Transport and Environment, 105.

14. Niyomubyeyi, O., Veysipanah, M., Sarwat, S. Pilesjo, P., ***Mansourian, A.*** (2022). An improved non-dominated sorting biogeography-based optimization algorithm for multi-objective land-use allocation: a case study in Kigali-Rwanda, Geo-Spatial Information Science, 2022

15. Mangold, M., Zhao, P., Haitao, H., Mansourian, A. (2022). Geo-fenced planning for dockless bike-sharing systems: a GIS-based multi-criteria decision analysis framework, Urban Informatics, 1 (17).

16. Zhao, P.,Jimenez, J.R.C, Brovelli, M.A., ***Mansourian, A.*** (2022). Towards geospatial blockchain: A review of research on blockchain technology applied to geospatial data, AGILE GIScience Ser., 3, 71.

17. Jimenez, J.R.C, Zhao, P., ***Mansourian, A.***, Brovelli, M.A. (2022). Geospatial Blockchain: review of decentralized geospatial data sharing systems, AGILE GIScience Ser., 3, 29.

18. Zhao, P., Li, A., Pilesjö, P., ***Mansourian, A.*** (2022). A machine learning based approach for predicting usage efficiency of shared e-scooters using vehicle availability data, AGILE GIScience Ser., 3, 20.

19. Aturinde, A., ***Mansourian, A.*** (2022). Space–Time Surveillance of COVID-19 Seasonal Clusters: A Case of Sweden, ISPRS International Journal of Geo-Information, 11(5), 307.

20. Welle Donker, F., van Loenen, B., Keßler, C., Küppers, N., Panek, M., ***Mansourian, A.***, Zhao, P., Vancauwenberghe, G., Tomic, H., Kevic, K. (2022). Showcase of Active Learning and Teaching Practices in Spatial Data Infrastructure (SDI) Education, AGILE GIScience Ser., 3, 18, 2022.

21. Sicuaio, T., Niyomubyeyi, O., Shyndyapin, A., Pilesjo, P., ***Mansourian, A.*** (2022). Multi-objective optimization using evolutionary Cuckoo Search algorithm for evacuation planning, Geomatics, 2(1), 53-75

22. Zhao, P., Masoumi, Z., Kalantari, M., Aflaki, M., ***Mansourian, A.*** (2022). A GIS-Based Landslide Susceptibility Mapping and Variable Importance Analysis using Artificial Intelligent Training-Based Methods, Remote Sensing, 14(1), 211.

23. Li, A., Zhao, P., Haitao, H., ***Mansourian, A.***, Axhausen, K.W. (2021). How did micro-mobility change in response to COVID-19 pandemic? A case study based on spatial-temporal-semantic analytics, Computer, Environment and Urban Systems, 90, 101703

24. Dinc, P., Eklund, L., Shahpurwala, A., ***Mansourian, A.***, Aturinde, A., Pilesjö, P. (2021). Fighting Insurgency, Ruining the Environment: the Case of Forest Fires in the Dersim Province of Turkey, Human Ecology, 2021.

25. Zhao, P., Haitao, H., Li, A., ***Mansourian, A.*** (2021). Impact of data processing on deriving micro-mobility patterns from vehicle availability data, Transportation Research Part D: Transport and Environment, 97, 102913.

26. Aturinde, A., Farnaghi, M., Pilesjö, P., Sundquist, K., ***Mansourian, A.*** (2021). Spatial Analysis of Ambient Air Pollution and Cardiovascular Disease (CVD) Hospitalization Across Sweden, GeoHealth, 5(5), 1-20, e2020GH000323.

27. Hansson, E., ***Mansourian, A***., Farnaghi, M., Petzold, M., Jakobsson, K. (2021). An ecological study of chronic kidney disease in five Mesoamerican countries: associations with rop and heat, BMC Public Health, 21(840), 1-10.

28. Pileforooshha, P., Karim, M., ***Mansourian, A.*** (2021). A new model combining building block displacement and building block area reduction for resolving spatial conflicts, Transactions in GIS, online, 1-30.

29. Ismail, K., Maiga, G., Ssebuggwawo, D., Nabende, P., ***Mansourian, A.*** (2021). Spatio-Temporal Trends and Distribution Patterns of Typhoid Disease in Uganda from 2012 to 2017, Geospatial Health, 15(2), 326-336.

30. Omidipoor, M., Toomanian, A., Neisani Samani, N., ***Mansourian, A.*** (2021). Knowledge Discovery Web Service for Spatial Data Infrastructures, International Journal of Geo-Information, 10 (1), 12.

31. Aturinde, A., ***Mansourian, A.***, Farnaghi, M., Pilesjö, P., Sundquist, K., Maiga, G. (2020). Analysis of spatial co-occurrence between cancer and cardiovascular disease mortality and its spatial variation among the Swedish elderly (2010–2015), Applied Geography, 125, 1-10.

32. Farnaghi, M., Ghaemi, Z., ***Mansourian, A.*** (2020). Dynamic Spatio-Temporal Tweet Mining for Event Detection: A Case Study of Hurricane Florence, International Journal of Disaster Risk Science, 11, 378–393.

33. Lubida, A.P., Rajabi, M., Pilesjo, P., ***Mansourian, A.*** (2020). Investigating an Agent Based Modelling approach for SDI planning: A case study of Tanzania NSDI development, South African Journal of Geomatics, 9 (2), 198-218.

34. Huang, W., Kazemzadeh, K., ***Mansourian, A.***, Harrie, L. (2020). Towards Knowledge-Based Geospatial Data Integration and Visualization: A Case of Visualizing Urban Bicycling Suitability, IEEE Access, 8, 85473-85489.

35. Sekulic, M., Siljeg, A., ***Mansourian, A***., Watson, L., Cavric, B.I. (2020). Multi-Criteria Spatial-Basde Modelling for Optimal Alignment of Road By-passes in the Tlokweng Planning Area, Botswana, Journal of Spatial Science.

36. Farnaghi, M., ***Mansourian, A.*** (2020). Blockchain: an enabling technology for transparent and accountable decentralized public participatory GIS, Cities, 105, 102850, 1-12.

37. Niyomubyeyi, O., Eduardo Sicuaio, T., Diaz González, J.I., Pilesjo, P., *Mansourian, A.* (2020). A Comparative Study of Four Metaheuristic Algorithms, AMOSA, MOABC, MSPSO, and NSGA-II for Evacuation Planning, Algorithms, 13(1), 16, 1-21.

38. Jeihouni, M., Toomanian, A., *Mansourian, A.* (2020). Decision Tree-Based Data Mining and Rule Induction for Identifying High Quality Groundwater Zones to Water Supply Management: a Novel Hybrid Use of Data Mining and GIS, Water Resource Management, 34, 139-154.

39. Ongaya, K., Aturinde, A., Farnaghi, M., Mansourian, A., Maiga, G., Oyo, B., Bagarukayo, E. (2020). Spatiotemporal Analysis of Nodding Syndrome in Northern Uganda 1990-2014, Health, 12, 180-193.

40. Aturinde, A., Nakasi, R., Farnaghi, M., Maiga, G., Pilesjö, P., *Mansourian, A.* (2019). Establishing Spatially-enabled Health Registry Systems using Implicit Spatial Data Pools: Case Study - Uganda, BMC Medical Informatics and Decision Making, 19:215.

41. Aturinde, A., Farnaghi, M., Pilesjö, P., *Mansourian, A.* (2019). Spatial Analysis of HIV-TB Co-clustering in Uganda, BMC Infectious Diseases, 19:612.

42. Masoumi, Z., Coello Coello, C.A., *Mansourian, A.* (2019). Dynamic Urban Land-Use Change Management using Multi-Objective Evolutionary Algorithms, Soft Computing,

43. AhangarCani, M., Farnaghi, M., Shirzadi, M.R., *Mansourian, A.* (2019). Predictive Risk Mapping of Human Leptospirosis using Support Vector Machine and Multilayer Perceptron, Geospatial Health, 14:711.

44. Niyomubyeyi, O., Pilesjo, P., *Mansourian, A.* (2019). Evacuation Planning Optimization Based on a Multi-Objective Artificial Bee Colony Algorithm, ISPRS International Journal of Geo-Information, 8(3), 110.

45. Yousefzadeh, M., Farnaghi, M., Pilesjo, P., *Mansourian, A.* (2019). Proposing and investigating PCAMARS as a novel model for NO2 interpolation, Environmental monitoring and Assessment, 191:183.

46. Lubida, A., Veysipanah, M., Pilesjo, P., *Mansourian, A.* (2019). Land-use Planning for Sustainable Urban Development in Africa: A Spatial and Multiobjective Optimization Approach, Geodesy and Cartography Journal, 45:1, 1-15.

47. Farnaghi, M., *Mansourian, A.* (2018). Multi-agent Planning for Automatic Geospatial Web Service Composition in Geoportals, ISPRS International Journal of Geo-Information, 7(10), 404.

48. Rajabi, M.R., *Mansourian, A.*, Pilesjo, P., Åström, D.O., Cederin, K., Sundquist, K. (2018). Exploring spatial patterns of cardiovascular disease in Sweden between 2000 and 2010, Scandinavian Journal of Public Health, 46(6).

49. Huang, W., *Mansourian, A.*, Abdolmajidi, E., Xu, H., Harrie, L. (2018). Synchronising Geometric Representations for Map Mashups Using Relative Positioning and Linked Data, International Journal of Geographical Information Science (IJGIS), 32 (6), 1117-1137.

50. Rajabi, M.R., **Mansourian, A.**, Pilesjo, P.m Shirzadi, M.R., Fadaei, R., Ramazanpour, J. (2018). A spatially explicit agent-based simulation model of a reservoir host of cutaneous leishmaniasis, Rhombomys opimus, Ecological Modelling, 370, 33.49.

51. Pilesjo, P., **Mansourian, A.**, Runnstrom, M., Groth, R., et al. (2018). Features of the international MSc educational programme in environmental management and modelling, Geodesy and Cartography Journal, 44(4), 134-139.

52. Masoumi, Z., Maleki, J., Mesgari, M., **Mansourian, A.** (2017). Using an Evolutionary Algorithm in Multiobjective Geographic Analysis for Land Use Allocation and Decision Supporting, Geographical Analysis, 49 (1), 58-83.

53. Rajabi, M., pilesjo, P., Bazmani, A., **Mansourian, A.** (2016). Identification of Visceral Leishmaniasis-Susceptible Areas using Spatial Modelling in Southern Caucasus, Zoonoses and Public Health, 64(7), e5-e22.

54. Rajabi, M.R., Pilesjo, P., Shirzadi, M.R., Fadaei, R., **Mansourian, A.** (2016). A spatially explicit agent-based modeling approach for the spread of cutaneous leishmaniasis disease in central Iran, Isfahan, Environmental Modelling & Software, 82, 330-346.

55. Abdolmajidi, E., Harrie, L., **Mansourian, A.** (2016). The stock-flow model of spatial data infrastructure development refined by fuzzy logic, Springer Plus, 5(267), 1-20. DOI 10.1186/s40064-016-1922-1

56. Kazi M.U., **Mansourian, A.** (2016). Evaluation of land suitability for urban land-use planning: case study Dhaka City, Transactions in GIS, 16(1), 20-37 .

57. Pezeshki, Z., Tafazzoli-shadpour, M., Nejadgholi, I., **Mansourian, A.**, Rahbar, M. (2016). Model of Cholera Forecasting Using Artificial neural Network in Chabahar City, Iran. International Journal of Enteric Pathogens, 4(1), doi: 10.17795/ijep31445

58. Abdolmajidi, E., **Mansourian, A.**, Will, J., Harrie, L. (2015). Matching authority and VGI road networks using an extended node-based matching algorithm, Geo-spatial Information Science, 18(2-3), 65-80.

59. **Mansourian, A.**, Lubida, A., Pilesjo, P., Abdolmajidi, E., Lassi, M. (2015). SDI planning using the system dynamics technique within a community of practice: lessons learnt from Tanzania, Geo-spatial Information Science, 18(2-3), 97-110.

60. Rajabi, M.R., **Mansourian, A.**, Pilesjo, P., Bazmany, A. (2014). Environmental modelling of visceral leishmaniasis by susceptibility-mapping using neural networks: a case study in north-western Iran, Geospatial Health, 9(1), 179-191 *(ISI)*.

61. Shaygan, M., Alimohammadi, A., **Mansourian, A.**, Govara, Z.S., Kalami, S.M. (2014). Spatial multi-objective optimization approach for land use allocation using NSGA-II, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 7(3), 906–916.

62. Farnaghi, M., **Mansourian, A.** (2013). Disaster planning using automated composition of semantic OGC web services: A case study in sheltering, Computers, Environment and Urban Systems, 41, 204-218 .

63. Farnaghi, M., *Mansourian, A.* (2013). Automatic Composition of WSMO based Geospatial Semantic Web Services using Artificial Intelligence Planning, Journal of Spatial Science, 58(2), 235-250.

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65. Aghamohammadi, H., Mesgari, M.S., *Mansourian, A.*, Molaei, D. (2013). Seismic human loss estimation for an earthquake disaster using neural network, International Journal of Environmental Science and Technology, 10(5), 931-939 .

66. Pezeshki, Z., Tafazzoli, M., *Mansourian. A.*, Eshrati, B., Omidi, E., Nejadqoli, I. (2012). Model of cholera dissemination using geographic information systems and fuzzy clustering means: Case study, Chabahar and Iran, Public Health, 126(10), 881-887.

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Projects

o June 2023 – May 2026: Geo-Academy: Innovative digital GEO -Tools for enhancing teachers' green and spatial skills towards an effective STEAM Education for Sustainable Development, Swedish PI, Funded by European Commission.

o February 2023 – January 2026: INTEGRAL: Intelligent geo-technologies for resilient agriculture adaptation to climate change in Lao PDR, Swedish PI, Funded by European Commission.

o November 2022 – October 2025: CADEO: Climate change adaptation using digital geospatial twins and earth observation, Swedish PI, Funded by European Commission.

o September 2021 – August 2024: AI in the service of socio-politically adapted sustainable dust-storm control in the Middle East, Co-Applicant, Funded by Centre of Advanced Middle Eastern Studies, Lund University.

o January 2021 – December 2024: Near real-time monitoring and risk mapping of spruce bark beetle attacks - an integrated framework based on remote sensing, geodata and modelling, Co-Applicant, Funded by Swedish National Space Board.

o September 2021 – October 2022: Applications of Geospatial Artificial Intelligence (GeoAI), PI, Funded by Lund University Commissioned Education (LUCE).

o September 2020 – September 2023: GOSTEAM: Cross-cutting geospatial and environmental STEAM instruments for the new generation, Principal Coordinator, Funded by UHR, Strategic Partnership.

o October 2019 – October 2022: CIDMA: Climate Change Induced Disaster Management in Africa, Principal Coordinator, Funded by European Commission.

o September 2019 – August 2022: SPIDER: open SPatial data Infrastructure eDucation nEtwoRk, Swedish Coordinator, Funded by DAAD, Germany.

o March- December 2019: visAR: Augmented Reality-based Visual Assistant Tool for Climate Change Communications – visAR, Principal Coordinator, Funded by SMHI, Sweden.

o October 2018-October 2021: EMME: Environmental Management in the Middle East; Spatial Approaches, Principal Coordinator, Funded by European Commission.

o October 2017- September 2021: EPCA: Environmental Protection in Central Asia; Disaster Risk Management with Spatial Methods, Principal Coordinator, Funded by European Commission.

o October 2015 – March 2019: GeoNetC: International MSc Educational Programme in Environmental Management and Modelling, manager, Funded by European Commission.

o October 2015 – June 2020: BREAD: Building Resilient Ecosystems and Livelihoods to Climate Change and Disaster Risks, researcher, funded by Swedish International Development Cooperation Agency (SIDA).

o October 2015 – June 2020: Sustainable Spatially enabled e-services delivery in Uganda, Principal Coordinator, funded by Swedish International Development Cooperation Agency (SIDA).

o From 2013 – Dec 2016: ICOS - Carbon Portal Project, researcher, Funded by Swedish research agency. Note: ICOS is an ongoing project as one of the LU infrastructures.

o January 2012 - 2014: DataGuru Project. Co-PI, funded by BECC/MERG. Note: Note: DataGURU is an ongoing project as one of the INES infrastructures.

o January 2012 – August 2012: "Information service for historical demographic information and geographic information", researcher, Subproject to eSSENSE financed by Swedish National Research Foundation VR.

o August 2011 – July 2012: Member of HaptiMap research group, Lund University, Sweden. HaptiMap is an EU-FP7 project under the Cooperation Programme ICT – Information and Communication Technologies (Challenge 7 – Independent living and inclusion). The HaptiMap project is aimed at making maps and location-based services more accessible by using several senses like touch, hearing and vision.

o August 2010 – July 2011: Advisor of National Cartographic Center (Iranian National Mapping Agency) for Developing Iran's National SDI.

o June 2010 – July 2011: Principal Coordinator of a research project entitled: "Design and Implementation of SDI for Iranian Gas Transmission Company", Iran.

o February 2010 – July 2011: Iran National SDI: Principal Coordinator of a research project on designing the architecture of a distributed system for the SDI of Iranian Electric Industry, Iran.

o April 2009 - June 2010: Principal Coordinator of a research project on Design and Implementation of Mobile GIS for Mazandaran Regional Electric Company, Iran.

o April 2009 - June 2010: Principal Coordinator of a project on Design and Implementation of Catalogue Service for Web (CSW) and Web Map Service (WMS) for Iranian Electric Company (TAVANIR), Iran.

o April 2008 - June 2010: Principal Coordinator of a research project on Design and Development of Iran GeoWeb (phase 1), Iran. The aim of this project was to develop a country-wise web-based system similar to Google Map.

o April 2008 - April 2009: Principal Coordinator of a research project on Designing Spatial Data Infrastructure (SDI) for Ministry of Communication and Information Technology, Iran.

o Feb 2007 - Feb2010: Member of a research group involving in Designing Remote Sensing Laboratories for Iranian Space Agency, Iran.

o Oct 2007 - Dec 2008: Member of a research group involving in Design and Implementation of an Applied GIS for Mazandaran Regional Electric Company, Iran.

o March 2006 - March 2007: Principal Coordinator of a research project entitled: "Study phase of Yazd Provincial SDI", Tehran & Yazd, Iran.

- Dec 2005 - May 2007: Principal Coordinator of a national research project entitled: "Study phase of Iran's National Spatial Data Infrastructure (NSDI)", Tehran, Iran. The aim of this project was to prepare an action plan for the development of SDI in Iran.

- Nov 2005 - 2007: Member of research group involved in Design and Implementation of Urban GIS for five cities of Iran's Kohgilouye & Boyerahmad Province, Tehran & Yasouj, Iran.

- Jan - Sep 2005: Consultant of Office of Sustainable Development (Iranian Management and Planning Organization) for Developing National Spatial Data Infrastructure (NSDI) in Iran. The consultancy included preparing required documents and laws for the development of SDI in Iran, to be approved by ministerial board.

- Jan - May 2005: Consultant for a project entitled: "Design and Implementation of a Base Regional GIS for the Yazd Province", Tehran & Yazd, Iran.

- Oct 2004 - June 2005: Consultant of the Deputy of Civilian Affairs of Interior Ministry on Disaster Management, Tehran, Iran.

- Feb - June 2005: Director of a research project on SDI Strategic and Action Planning for Geology Survey of Iran.

- Apr 2005 - March 2006: Member of research group for GIS Master Planning for Ministry of Roads and Transportation of Iran, Tehran, Iran.

- March - June 2005: Consultant of Geology Survey of Iran for Development and Implementation of a Geological Web GIS.

- March - Sep 2005: Director of a research project entitled: "Development of SDI Strategic and Action Plan for Ministry of Energy".

Invited speaker, lecture

- Invited speaker, AI for Good Global Summit 2024, Navigating GeoAI: Plotting the course for future education, 29-31 May 2024, Geneva, Switzerland.

- Invited speaker, UN-GGIM Academic Network webinar series, via AI for Good Platform, GeoAI Education, 14 June 2023, online.

- Invited speaker, CMES, AI in the Service of Socio-Politically Adapted Sustainable Dust-Storm Control in the Middle East, 25 November 2021, CMES, Lund University, Swden.

- Invited speaker, Gi4DM Panel 3: Education for GeoDM, as part of Gi4DM conference 2020, online.

- Invited lecture for MSc students, Web Cartography, March 2020, Urgench State University, Uzbekistan.

- Keynote speaker, the second *International Conference and Exhibition on Mapping and spatial Information (ICMSI 2012)* and 19th *National Geomatics Conference*, 7-9 May 2012, National Cartographic Center (NCC), Iran.

- Keynote speaker, the 7th National GIS Conference, December 2011, National Cartographic Center, Iran.

- Invited lecture, Recent advances in GIS technologies, November 2010, Dohuk University, Kordistan, Iraq.

o Invited speaker, Clearinghouse networks and Geoportals, half day lecture for experts of National Cartographic Center (Iranian National Mapping Agency), January 2010, Tehran, Iran.

o Invited lecture for PhD Students, SDI and 3D Geospatial Web Services, March 2009, Lund University, Sweden.

Scientific Committee and Associations

o Scientific Programme Committee **Chair**, the 26th AGILE International Conference, Delft, the Netherlands, June 13-16, 2023.

o **Council Member** of Association of Geographic Information Laboratories in Europe (AGILE), two terms: 2015-2019 and 2019-2023.

o **Treasurer** of Association of Geographic Information Laboratories in Europe (AGILE), two terms: 2017-2019 and 2019-2023.

o Member of UN GGIM Academic Network, since 2021.

o Scientific Programme Committee **Chair**, the 25th AGILE International Conference, Vilnius, Lithuania, June 14-17, 2022.

o **Co-organizer** of Open SDI Summer school, Zagreb, Croatia, August 22-26, 2022.

o **Co-organizer** of international workshop on "Building SDI Education Curricula fit for the future", January 20, 2022, online.

o **Co-organizer** of international workshop on "Open SDI education: active methods and good practices", June 8, 2021, Online.

o **Co-organizer** of workshop on Open Data Ecosystem, EGOV-CeDEM-ePart 2020, Linköping, Sweden.

o **Co-organizer** of international workshop on "Towards open spatial data infrastructure", June 17, 2019, Limassol, Cyprus.

o Scientific Programme Committee **Chair**, the 22nd AGILE International Conference, Limassol, Cyprus, June 17-20, 2019.

o **Organizer** and Scientific Programme Committee **Chair**, the 21st AGILE International Conference, Lund, Sweden, June 12-15, 2018.

o **Co-organizer** of international workshop on "SDI research and strategies towards 2030: Renewing the SDI research agenda", June 12, 2018, Lund Sweden.

o Editorial Board, Geomatics (ISSN 2673-7418).

o Editorial Board, ISPRS International Journal of Geo-Information (ISSN 2220-9964).

o Editorial Board, AIMS Geoscience (ISSN 2471-2132).

o Guest Editor, Special Issue "SDI and the Revolutionary Technological Trends", ISPRS International Journal of Geo-Information.

o Scientific Committee, AGILE conferences, since 2015.

o Scientific Committee, GEOPROCESSING conferences, since 2018.

o Scientific Committee of Geoscience conferences, since 2023.

o Scientific Committee, Geo Delf Conferences 2018, Delf, the Netherlands.

o Scientific Reviewer of different EC/EU grant programmes.

o Member of scientific committee of the second *International Conference and Exhibition on Mapping and spatial Information (ICMSI 2012)* and 19th *National Geomatics Conference*, 7-9 May 2012, National Cartographic Center (NCC), Iran.

o Member of scientific committee of ISPRS-COST workshop, 3-4 December 2009, Sweden

o Member of scientific committee of annual *National Geomatics conferences* in Iran. 2006 – 2012.

o Member of scientific committee of annual *National GIS conferences* in Iran. 2006-2011.

o External examiner / member of evaluation committee for PhD theses, relevant to GIS and SDI.

o External examiner / member of eval evaluation committee for MSc theses, relevant to GIS and SDI.

o Reviewer of different international journals such as:

  - Big Earth Data, Taylor & Francis

  - Digital Earth

  - International Journal of Geographical Information Sciences (IJGIS), Taylor & Francis.

  - International Journal of Earth Observation & Geoinformatics, Elsevier.

  - ISPRS International Journal of Geo-information, ISPRS, MDPI.

  - Computer, Environment and Urban systems, Elsevier.

  - Transactions in GIS.

  - Sensors.

  - Environmental Research and Public Health.

  - Geodesy & Cartography.

  - SpringerPlus, Springer.

  - Annals of Operational Research, Springer.

  - Applied Spatial Analysis and Policy, Springer.

  - Disasters Journal, Wiely.

  - Journal of Natural Hazards, Springer.

  - Emerald, the electronic library.

  - South African Computer Journal, South African Institute of Computer Scientists and Information Technologists.

Supervision of postgraduate students
- Main supervisor of 10 PhD Theses (6 finished and 4 ongoing)
- Co-supervisor of 12 PhD Theses (8 finished and 4 ongoing)
- Main supervision of 4 researchers/postdocs (2 finished and 2 ongoing)
- Main supervised of more than 50 MSc Theses

Teaching
- BSc Courses: *GIS, Remote Sensing, Cadastre, Digital Mapping*
- MSc Courses: *Geospatial Artificial Intelligence (GeoAI), Spatial Data Infrastructure (SDI), Internet GIS (Web GIS), Geographical Databases, Advanced GIS, Open Source GIS.*
- PhD Courses: *Advanced SDI, Spatial Analysis, GIScience, Geomatics and disaster management.*

Admin activities
- Director of Lund University GIS Centre, Since January 2022
- Coordinator of the GIS & Remote Sensing (Geomatics) Mater Program, Department of Physical Geography and Ecosystem Science, Lund University, Since 2018
- Board member, Department of Physical Geography and Ecosystem Science, Lund University, 2021-2023.

Pedagogical courses
- Learning and Teaching in Higher Education: A Web-based introduction, Lund University, 2017
- Open Network Learning (ONL), Lund University, 2016
- Communication in Science Education, Lund University, 2013-2014.
- Docent course, Lund University, 2012.
- Techniques for teaching and evaluating students, K.N.Toosi University of Technology, 2009.
- Creativity nurturing, Technical University of Isfahan, 2006.
- TRIZ creativity engineering, Technical University of Isfahan, 2006.
- Intellectual property, Technical University of Isfahan, 2006.
- Technology transfer: legal and business foundations, Technical University of Isfahan, 2006.