

Jamal JOKAR ARSANJANI

Geoinformatics and Earth Observation (GEO) Research Group
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Biography

I am currently a full professor for Geoinformatics and Earth Observation (GEO) and the head of GEO group at the Department of Sustainability and Planning, Aalborg University. My research interest lies within the application of geographical data e.g., citizen observation data, earth observation data, open data, and field surveys as well as geographical methods to understand and model the underlying factors behind dynamic earth and social systems including land use change, urbanization, deforestation, wildfires, climate change impacts, and public health, among others. My current research focus is on attributing climate projection data into cascading and compound climate risks modelling frameworks in relation to facilitating climate-resilient decision-making. I follow open science and FAIR research data principles and my recent papers are compliant with these principles.

I serve as editor-in-chief of *Data Journal*, associate editor of *ISPRS International Journal of Geoinformation* as well as serving as editorial board of several leading journals including *Habitat International*, *Land, Sustainability*, *ISPRS Int. J. of Geoinformation*, *Int. J. of Environmental Research and Public Health*.

My publication track record started to shape since 2011 after finishing my PhD and I have published:

- 4 books: 1 monograph as my PhD dissertation, 3 edited books.
- 99 journal papers, 20 of these as first author.
- 5 book chapters, 2 of these as first author.
- 15 peer-reviewed conference papers, 12 of these as first author.
- 12 guest edited special issues.

My works have been cited more than 5500 times leading to an **h-index of 39** according to Google scholar.

EDUCATION

University of Vienna, Austria

2011 Ph.D. in Cartography & Geoinformation with focus on land change modeling
Title: *Dynamic Land Use/Cover Change Simulation: Geosimulation & Agent-based Modelling*
Advisor: Prof. Dr. Wolfgang Kainz

Tarbiat Modares University of Tehran, Iran

2007 M.Sc. in Remote Sensing and GIS with emphasis on remote sensing Title:
Detection of water stress in sugarcane fields using ASTER images
Advisor: Prof. M. Reza Mobasheri

University of Tehran, Iran

2004 B.Sc. in Agricultural Engineering and Technology with emphasis on soil science
Title: *Precision farming; challenges and possibilities*
Advisor: Prof. Shorafa

APPOINTMENTS

- 2020-present **Aalborg University Copenhagen**, Denmark
Department of Development and Planning, Geoinformatics
Full Professor
- 2018-2020 **Aalborg University Copenhagen**, Denmark
Department of Development and Planning, Geoinformatics
Associate Professor
- 2016-2018 **Aalborg University Copenhagen**, Denmark
Department of Development and Planning, Geoinformatics
Assistant Professor
- 2015-2016 **University of Heidelberg**, Germany
Department of Geography, GIScience Research Group
Senior Research Fellow
- 2015-2016 **Tarbiat Modares University**, Iran
Department of Remote Sensing and GIS
Visiting Professor
- 2015 **University of Coimbra**, Portugal
Department of Mathematics
Visiting Research Fellow
- 2013-2015 **University of Heidelberg**, Germany
Department of Geography, GIScience Research Group
Alexander von Humboldt Research Fellow
- 2012-2013 **University of Heidelberg**, Germany
Department of Geography, GIScience Research Group
Postdoc Researcher
- 2013 **National University of Ireland at Maynooth**, Ireland
Department of Computer Science
Visiting Research Fellow
- 2011-2012 **University of Vienna**, Austria
Institute of Geography, Department of Cartography and Geoinformation
Postdoc Researcher
- 2011-2012 **United Nations Office**, Austria
United Nations Office for Outer Space Affairs (UNOOSA)
Research Associate
- 2008-2011 **University of Vienna**, Austria
Institute of Geography, Department of Cartography and Geoinformation
Research Associate
- 2009 **University of North Carolina at Charlotte (UNCC)**, USA

The Center for Applied Geographic Information Science (CAGIS)

Research Associate

2006-2008 **Iranian Space Agency, Iran**
Remote Sensing Laboratory
Research Associate

2004-2006 **Tarbiat Modares University of Tehran, Iran**
Iranian Power System Engineering Research Center (IPSERC)
Research Associate and Developer

PROJECTS & GRANTS

- 2024 **Innovation Fund Denmark [Driving Urban Transitions call]**
Title: “Progressive solutions for Reshaping urban mObility: integrating Micro-mobility, technology, Infrastructure, and Smart policy for first/last mile travel and logistics”, €300,000
- 2023 **Danish Ministry of Higher Education and Science**
Title: “EUopSTART funding for coordinating a Horizon Europe application entitled EOSC-complaint research infrastructure for climate adaptation”, ca. €10,000
- 2020 **European Open Science Cloud**
Title: “Artificial intelligence for Covid-19 monitoring”, ca. €45,000
- 2016 **Grant for a joint workshop (co-PI) at Heidelberg University, Germany, AidData/USAID**
Title “Geospatial Analysis of Disasters: Measuring Welfare Impacts of Emergency Relief”, ca. €10,000, funded.
- 2015 **Short Term Scientific Mission (PI) at Coimbra University, Portugal, COST-Action-TD1202**
Title “Crowdsourcing Land use/cover Information from Citizen Observatories”, ca. €2,200, funded.
- 2014 **Grant for organizing a joint workshop Heidelberg Collaboratoy for image processing (IWR), Heidelberg University**
Title “Visual crowds for Geo- and Environmental Sciences”, ca. € 10,000, funded.
- 2013-16 **Travel grant for attending several sessions, conferences, workshops across Europe (PI), COST-Action-IC1203**
Title “Networking across different institutions active in researching on Volunteered Geographic Information”, ca. € 12,000, funded.
- 2013-16 **Travel grant for attending several sessions, conferences, workshops across Europe (PI), COST-Action-TD1202**
Title “Networking across different institutions active in researching on citizens observatories”, ca. € 12,000, funded.
- 2013-2015 **Research Grant (PI) at Heidelberg University, Germany, Alexander von Humboldt Foundation**

Title “osmAGENT: How Good Can Agent-Based Modeling Predict OpenStreetMap Data?”, ca €100,000, funded.

- 2011 **Publication grant for publishing a book from my PhD dissertation
The Springer Publication**
Title “Dynamic Land Use/Cover Change Simulation: Geosimulation and Agent-based Modelling”, €500, funded.
- 2011 **Travel Grant for attending AGILE 2011, Utrecht, the Netherlands
ESRI**
Title “Agent-based modelling for land change simulation”, €500, funded.
- 2011 **Research grant for an exchange program and field work, University of Tehran, Iran
University of Vienna**
Title “Validation of land use/cover data for Tehran”, €2,000, funded.

BOOKS

- 2017 Leitner, M., **Jokar Arsanjani, J.**, (eds.) (2017). *Citizen Empowered Mapping*, Springer: Heidelberg, 292 pages.
- 2015 Helbich, M., **Jokar Arsanjani J.**, & M. Leitner (eds.) (2015) *Computational Approaches for Urban Environments*. Springer: Heidelberg, 395 pages.
- 2015 **Jokar Arsanjani, J.**, Zipf, A., Mooney, P., Helbich, M., (eds.) (2015): *OpenStreetMap in GIScience: experiences, research, applications*. Springer: Heidelberg, 324 pages.
- 2012 **Jokar Arsanjani, J.**, (2012): *Dynamic Land Use/Cover Change Simulation: Geosimulation and Agent-based Modelling*, Springer: Heidelberg, 124 pages.

CO-EDITED VOLUMES

- 2019 **Jokar Arsanjani, J.**, Delavar, M.R., Navratil, G., Olteanu-Raimond, A., [Uncertainty Modeling in Spatial Data Analysis](#), a special issue in [ISPRS International Journal of Geo-Information](#) (IJGI), ISSN: 2220-9964, MDPI.
- Mooney, P., Mocnik, F., Zipf, A., **Jokar Arsanjani, J.**, Hochmaier, H., Zahra, K., [Volunteered Geographic Information: Analysis, Integration, Vision, Engagement](#) (VGI-ALIVE), a special issue in [ISPRS International Journal of Geo-Information](#) (IJGI), ISSN: 2220-9964, MDPI.
- 2017 Sui, D., Ye, X., **Jokar Arsanjani, J.**, (2017): [Open Data and Robust & Reliable GIScience](#), a special issue in [Data](#), ISSN: 2306-5729, MDPI.
- Jokar Arsanjani, J.**, Leitner, M., Zipf, A., (eds.) (2017). [Crowdsourced Mapping](#). Special Issue in [Cartography and Geographic Information Science](#), V44, pp. 95-184.
- 2016 **Jokar Arsanjani, J.**, (eds.) (2016). Earth/Community Observations for Climate Change Research. A special issue of *ISPRS International Journal of Geo-Information (IJGI)*, ISSN: 2220-9964, MDPI.

Jokar Arsanjani, J., (2016): Remote Sensing, Crowd Sensing, and Geospatial Technologies for Public Health, a special issue in International Journal of Environmental Research and Public Health, ISSN: 1660-4601, MDPI

Jokar Arsanjani, J., Vaz, E., (eds.) (2016). Earth Observation and Geoinformation Technologies for Sustainable Development. Special issue of *Sustainability*, ISSN: 2071-1050, MDPI.

Jokar Arsanjani, J., Tsou, M., (eds.) (2016). Big Data for Urban Informatics and Earth Observation. Special issue of *ISPRS International Journal of Geo-Information (IJGI)*, ISSN: 2220-9964, MDPI.

Jokar Arsanjani, J., Helbich, M., Tayyebi, A., Birenboim, A., (eds.) (2016). Geospatial Data. Special issue of *Data*, ISSN: 2306-5729, MDPI.

REFEREED ARTICLES

- 2024 Valderrama Pineda, A.F.; Skov, I.R.; Dahy, H.; Jokar Arsanjani, J.; Bonnevie, I.M.; Børsen, T.; Teli, M. Sustainability Meets Information Technologies: Recent Developments and Future Perspectives. *Sustainability* **2024**, *16*, 4499. <https://doi.org/10.3390/su16114499>
- 2023 Ebrahimi Sirizi, M., Taghavi Zirvani, E., Esmailzadeh, A., Khosravian, J., Ahmadi, R., Mijani, N., Soltannia, R. and **Jokar Arsanjani, J.**, (2023). A Scenario-Based Multi-Criteria Decision-Making Approach for Allocation of Pistachio Processing Facilities: A Case Study of Zarand, Iran. *Sustainability*, *15*(20), p.15054.
- Karimi Firozjaei, M., Mijani, N., Nadizadeh Shorabeh, S., Kazemi, Y., Ebrahimian Ghajari, Y., **Jokar Arsanjani, J.**, Kiavarz, M. and Alavipanah, S.K., (2023). Assessing the Effect of Urban Growth on Surface Ecological Status Using Multi-Temporal Satellite Imagery: A Multi-City Analysis. *ISPRS International Journal of Geo-Information*, *12*(10), p.406.
- Moradi, B., Akbari, R., Taghavi, S.R., Fardad, F., Esmailzadeh, A., Ahmadi, M.Z., Attaroshan, S., Nickravesh, F., **Jokar Arsanjani, J.**, Amirkhani, M. and Martek, I., (2023). A scenario-based spatial multi-criteria decision-making system for urban environment quality assessment: case study of tehran. *Land*, *12*(9), p.1659.
- Afsari, R., Nadizadeh Shorabeh, S., Bakhshi Lomer, A.R., Homae, M. and **Arsanjani, J.J.**, (2023). Using Artificial Neural Networks to Assess Earthquake Vulnerability in Urban Blocks of Tehran. *Remote Sensing*, *15*(5), p.1248.
- Bakhshi Lomer, A.R., Rezaeian, M., Rezaei, H., Lorestani, A., Mijani, N., Mahdad, M., Raeisi, A. and **Arsanjani, J.J.**, (2023). Optimizing emergency shelter selection in earthquakes using a risk-driven large group decision-making support system. *Sustainability*, *15*(5), p.4019.
- Mijani, N., Firozjaei, M.K., Mijani, M., Khodabakhshi, A., Qureshi, S., **Arsanjani, J.J.** and Alavipanah, S.K., (2023). Exploring the effect of COVID-19 pandemic lockdowns on urban cooling: A tale of three cities. *Advances in Space Research*, *71*(1), pp.1017-1033.
- 2022 Fibæk, C.S., Keßler, C., **Arsanjani, J.J.** and Trillo, M.L., (2022). A deep learning method for creating globally applicable population estimates from sentinel data. *Transactions in GIS*, *26*(8), pp.3147-3175.

Alavipanah, S.K., Karimi Firozjaei, M., Sedighi, A., Fathololoumi, S., Zare Naghadehi, S., Saleh, S., Naghdizadegan, M., Gomeh, Z., **Arsanjani, J.J.**, Makki, M. and Qureshi, S., 2022. The Shadow Effect on Surface Biophysical Variables Derived from Remote Sensing: A Review. *Land*, 11(11), p.2025.

Shahpari Sani, D., Heidari, M.T., Tahmasebi Mogaddam, H., Nadizadeh Shorabeh, S., Yousefvand, S., Karpour, A. and **Jokar Arsanjani, J.**, (2022). An Assessment of Social Resilience against Natural Hazards through Multi-Criteria Decision Making in Geographical Setting: A Case Study of Sarpol-e Zahab, Iran. *Sustainability*, 14(14), p.8304.

Afsari, R., Nadizadeh Shorabeh, S., Kouhnavard, M., Homae, M. and **Arsanjani, J.J.**, (2022). A spatial decision support approach for flood vulnerability analysis in urban areas: A case study of Tehran. *ISPRS International Journal of Geo-Information*, 11(7), p.380.

Lupia, F., **Arsanjani, J.J.**, Fonte, C.C. and Pulighe, G., (2022). Perspectives on “Earth Observation and GIScience for Agricultural Applications”. *ISPRS International Journal of Geo-Information*, 11(7), p.372.

Ageenko A, Hansen LC, Lyng KL, Bodum L, **Jokar Arsanjani J.** (2022): Landslide Susceptibility Mapping Using Machine Learning: A Danish Case Study. *ISPRS Int. Journal of Geo-Information*; 11(6):324. <https://doi.org/10.3390/ijgi11060324>

Christensen, M., Georgati, M., **Jokar Arsanjani, J.** (2022): A risk-based approach for determining the future potential of commercial shipping in the Arctic within 2010-2099, *Journal of Marine Engineering & Technology*, pp. pending, DOI: 10.1080/20464177.2019.1672419.

2021 Gonzalez, R. Q., & **Jokar Arsanjani, J.** (2021). Prediction of Groundwater Level Variations in a Changing Climate: A Danish Case Study. *ISPRS International Journal of Geo-Information*, 10(11), 792.

Fibæk, C. S., Keßler, C., & **Jokar Arsanjani, J.** (2021). A multi-sensor approach for characterising human-made structures by estimating area, volume and population based on sentinel data and deep learning. *International Journal of Applied Earth Observation and Geoinformation*, 105, 102628.

Fibæk, C. S., Laufer, H., Keßler, C., & **Jokar Arsanjani, J.** (2021). Geodata-driven approaches to financial inclusion—Addressing the challenge of proximity. *International Journal of Applied Earth Observation and Geoinformation*, 99, 102325.

Firozjaei, M. K., Fathololomi, S., Kiavarz, M., **Jokar Arsanjani, J.**, Homae, M., & Alavipanah, S. K. (2021). Modeling the impact of the COVID-19 lockdowns on urban surface ecological status: A case study of Milan and Wuhan cities. *Journal of Environmental Management*, 286, 112236.

Firozjaei MK, Sedighi A, Firozjaei HK, Kiavarz M, Homae M, **Jokar Arsanjani J.**, Makki M, Naimi B, Alavipanah SK. (2021) A historical and future impact assessment of mining activities on surface biophysical characteristics change: A remote sensing-based approach. *Ecological Indicators*. Mar 1;122:107264.

Firozjaei, M.K., Kiavarz, M., Homae, M., **Jokar Arsanjani, J.** and Alavipanah, S.K., (2021). A novel method to quantify urban surface ecological poorness zone: A case study of several European cities. *Science of The Total Environment*, 757, p.143755.

Boest-Petersen, A., Michalak, P. and **Jokar Arsanjani, J.**, (2021). Impact Assessment Analysis of Sea Level Rise in Denmark: A Case Study of Falster Island, Guldborgsund. *Sustainability*, 13(13), p.7503.

Hass, F. S., & **Jokar Arsanjani, J.** (2021). The Geography of the Covid-19 Pandemic: A Data-Driven Approach to Exploring Geographical Driving Forces. *International Journal of Environmental Research and Public Health*, 18(6), 2803.

Qureshi, S., Shorabeh, S.N., Samany, N.N., Minaei, F., Homae, M., Nickravesh, F., Firozjaei, M.K. and **Jokar Arsanjani, J.**, (2021). A New Integrated Approach for Municipal Landfill Siting Based on Urban Physical Growth Prediction: A Case Study Mashhad Metropolis in Iran. *Remote Sensing*, 13(5), p.949.

Sulova, A., & **Jokar Arsanjani, J.** (2021). Exploratory Analysis of Driving Force of Wildfires in Australia: An Application of Machine Learning within Google Earth Engine. *Remote Sensing*, 13(1).

2020 Hass, F.S. and **Jokar Arsanjani, J.**, (2020). Deep Learning for Detecting and Classifying Ocean Objects: Application of YoloV3 for Iceberg–Ship Discrimination. *ISPRS International Journal of Geo-Information*, 9(12), p.758.

Nadizadeh, S., Karimi Firozjaei, M., Hamzeh, S., Firozjaee, **Jokar Arsanjani, J.**, (2020): Modelling the intensity of surface urban heat island and predicting the emerging patterns: Landsat multi-temporal images and Tehran as case study, *International Journal of remote sensing*, pp. pending

Mosebo Fernandes, A.C., Quintero Gonzalez, R., Lenihan-Clarke, MA., Leslie Trotter, E.F., **Jokar Arsanjani, J.** (2020): Machine Learning for Conservation Planning in a Changing Climate, *Sustainability*.

Jensen, T., Hass, F.S., Akbar, M.S., Petersen, P.H., **Jokar Arsanjani, J.** (2020) Employing machine learning for detection of invasive species using Sentinel-2 and AVIRIS data: The case of Kudzu in the United States, *Sustainability*.

Mijani, N., Alavipanah, S.K., Karimi Firozjaei, M., **Jokar Arsanjani, J.** Hamzeh, S., Weng, Q. (2020): Modeling Outdoor Thermal Comfort Using Satellite Imagery: A Principle Component Analysis-Based Approach. *Ecological Indicators* 117: 106555. <https://doi.org/https://doi.org/10.1016/j.ecolind.2020.106555>.

Christensen, M., **Jokar Arsanjani, J.**, (2020): Stimulating sustainable development goals' implementation and conservation action: Predicting future land use/cover change in the Virunga national park, Congo, *Sustainability*

Vaz, E., Ross Shaker, R., D. Cusimano, M., Loures, L., **Jokar Arsanjani, J.**, (2020) *Does Land Use and Landscape Contribute to Self-Harm? A Sustainability Cities Framework*, Data, 5(1), 9; <https://doi.org/10.3390/data5010009>.

- Karimi Firozjaei, M., Fatholouloumi, S., Kiavarz, M., **Jokar Arsanjani, J.**, Alavipanah, S.K., (2020): Modelling surface heat island intensity according to differences of biophysical characteristics: A Case Study of Amol City, Iran, *Ecological Indicators*, 109, p.105816.
- 2019 Ghaffarian, S., Kerle, N., Pasolli, E., **Jokar Arsanjani, J.** (2019): Post-Disaster Building Database Updating Using Automated Deep Learning: An Integration of Pre-Disaster OpenStreetMap and Multi-Temporal Satellite Data, *Remote Sensing*, 11(20), 2427; <https://doi.org/10.3390/rs11202427>.
- Koohpayma, J., Tahooni, A., Jelokhni, M., **Jokar Arsanjani, J.**, (2019): Spatial analysis of curb-park violations and their relationship with points of interest: a case study of Tehran, Iran, *Sustainability*.
- Argany, M., Sedighi, A., **Jokar Arsanjani, J.**, Karimi Firozjaei, M., Jelokhan-Niaraki, M., (2019): A geographical direction-based approach for capturing the local variation of urban expansion in the application of CA-Markov model, *Cities*, 93, pp. 120-135, <https://doi.org/10.1016/j.cities.2019.05.001>
- Mijani, N., Alavipanah, SK., Hamzeh, S., Karimi Firozjaei, M., **Jokar Arsanjani, J.**, (2019): Modeling thermal comfort in different condition of mind using satellite images: an Ordered Weighted Averaging approach and a case study, *Ecological Indicators*, 104, pp. 1-12, <https://doi.org/10.1016/j.ecolind.2019.04.069>
- Mousivand, A., **Jokar Arsanjani, J.**, (2019): Insights on the historical and emerging global land cover changes: the case of ESA-CCI-LC datasets, *Applied Geography*, 106, pp. 82-92, <https://doi.org/10.1016/j.apgeog.2019.03.010>
- 2018 Ballatore, A., **Jokar Arsanjani, J.** (2018): Placing Wikimapia: An exploratory analysis, *International Journal of Geographical Information Science*, 33:8, 1633-1650, DOI: [10.1080/13658816.2018.1463441](https://doi.org/10.1080/13658816.2018.1463441)
- Nasiri A, Ali Abbaspour R, Chehreghan A, **Jokar Arsanjani J.** (2018): Improving the Quality of Citizen Contributed Geodata through Their Historical Contributions: The Case of the Road Network in OpenStreetMap. *ISPRS International Journal of Geo-Information*, 7(7), 253; <https://doi.org/10.3390/ijgi7070253>
- Jokar Arsanjani, J.** (2018): Characterizing and monitoring global landscapes using GlobeLand30 datasets: the first decade of 21st century, *International Journal of Digital Earth*, 12:6, 642-660, DOI: [10.1080/17538947.2018.1470689](https://doi.org/10.1080/17538947.2018.1470689).
- Jokar Arsanjani, J.** (2018): Characterizing, monitoring, and simulating land cover dynamics using GlobeLand30: A case study from 2000 to 2030, *Journal of Environmental Management*, 214:66-75. doi: [10.1016/j.jenvman.2018.02.090](https://doi.org/10.1016/j.jenvman.2018.02.090).
- Jokar Arsanjani, J.**, Fibek, C., Vaz, E., (2018): Development of a cellular automata model using open source technologies for monitoring urbanization in the global south: the case of Maputo, Mozambique, *Habitat International*, 71, pp. 38-48, <https://doi.org/10.1016/j.habitatint.2017.11.003>.
- 2017 Vaz, E., Taubenböck, H., Kotha M., **Jokar Arsanjani, J.**, (2017): Urban change in Goa, India, *Habitat International*, <http://dx.doi.org/10.1016/j.habitatint.2017.07.010>

Jokar Arsanjani, J., Vaz, E., (2017): Special Issue Editorial: Earth Observation and Geoinformation Technologies for Sustainable Development, Sustainability, 9(5), 760; doi:10.3390/su9050760.

Hachmann, S., **Jokar Arsanjani, J.,** Vaz, E., (2017): Spatial data for slum upgrading: Volunteered Geographic Information and the role of Citizen Science, Habitat International, Doi: <https://doi.org/10.1016/j.habitatint.2017.04.011>

Jokar Arsanjani, J. (2017): Remote Sensing, Crowd Sensing, and Geospatial Technologies for Public Health: An Editorial. Int. J. Environ. Res. Public Health, 14, 405, doi:10.3390/ijerph14040405.

Jokar Arsanjani j., Leitner, M., Zipf, A., (2017): Crowdsourced Mapping: an editorial in Cartography and Geographic Information Science (CaGIS), doi: 10.1080/15230406.2017.1260241.

Geiß, C., Schauß, A., Riedlinger, T., Dech, S., Zelaya, C., Guzman, N., Hube, M., **Jokar Arsanjani, J.,** Taubenböck, H., (2017): Joint Use of Remote Sensing Data and Volunteered Geographic Information for Exposure Estimation – Evidence from Valparaíso, Chile, Natural Hazards, 86(1), pp. 81-105, DOI: 10.1007/s11069-016-2663-8.

2016

Antoniou, V., Fonte, C., See, L., Estima, J., **Jokar Arsanjani, J.,** Lupia, F., Minghini, M., Foody, G., Fritz, S., (2016): Investigating the Feasibility of Geo-tagged Photographs as Sources of Land Cover Data, ISPRS International Journal of Geoinformation, 5(5), 64; doi:10.3390/ijgi5050064.

Tayyebi, A., Tayyebi, A., **Jokar Arsanjani, J.,** Omrani, H., Moghaddam, H., (2016): FSAUA: A framework for sensitivity analysis and uncertainty assessment in historical and forecasted land use maps, Environmental Modeling and Software journal. 84, pp.70-84. doi:10.1016/j.envsoft.2016.06.018

Tayyebi, A., **Jokar Arsanjani, J.,** Tayyebi, A., Omrani, H., Moghaddam, H., (2016): Group-based Crop Change Planning: Application of SmartScape™ Spatial Decision Support System for Resolving Conflicts, Ecological Modeling Journal, 333, pp. 92-100, doi:10.1016/j.ecolmodel.2016.04.018

Tayyebi, A., Tayyebi, A., Vaz, E., **Jokar Arsanjani, J.,** Helbich, M., (2016): Analyzing crop change scenario with the SmartScape™ spatial decision support system, Land Use Policy (51), pp. 41-53, doi:<http://dx.doi.org/10.1016/j.landusepol.2015.11.002>.

Juhász, L., Rousell, A., **Jokar Arsanjani, J.,** (2016): Technical guidelines to extract and analyze VGI from different platforms, Data Journal, 1(3), 15; doi:10.3390/data1030015.

Jokar Arsanjani, J., See, L., Tayyebi, A., (2016): Assessing the suitability of GlobeLand30 for mapping land cover in Germany, International Journal of Digital Earth, DOI:10.1080/17538947.2016.1151956.

Jokar Arsanjani, J., Tayyebi, A., Vaz, E., (2016): GlobeLand30 as an alternative fine-scale global land cover map: Challenges, possibilities, and implications for developing countries, Habitat International, DOI: 10.1016/j.habitatint.2016.02.003.

- 2015 Jokar T., Javidan, R., Nazemosadat, M.R., **Jokar Arsanjani, J.**, Vaz, E., (2015): Spatiotemporal monitoring of Bakhtegan Lake’s areal fluctuations and an exploration of its future status by applying a cellular automata model, *Computers and Geosciences*, 78, 37-43, doi:10.1016/j.cageo.2015.02.004
- Jokar Arsanjani, J.**, Mooney, P., Helbich, M., Zipf, A., (2015): An exploration of future patterns of the contributions to OpenStreetMap and development of a Contribution Index, *Transactions in GIS*. doi: 10.1111/tgis.12139.
- Jokar Arsanjani, J.** & Vaz, E. (2015): An assessment of a collaborative mapping approach for exploring land use patterns for several European metropolises. *International Journal of Applied Earth Observation and Geoinformation*, 35, pp. 329-337, DOI: 10.1016/j.jag.2014.09.009.
- Vaz, E. & **Jokar Arsanjani, J.** (2015): Predicting Urban Growth of the Greater Toronto Area – Coupling a Markov Cellular Automata with document meta-analysis. *Journal of Environmental Informatics*, 25(2), 71-80, doi:10.3808/jei.201500299.
- Jokar Arsanjani, J.**, Bakillah, M.,(2015): Understanding the potential relationship between the socio-economic variables and contributions to OpenStreetMap. *International Journal of Digital Earth*, 8 (11), 861-876, DOI: 10.1080/17538947.2014.951081.
- Vaz, E., **Jokar Arsanjani, J.** (2015): Crowd sourced mapping of land use in urban dense environments: An assessment of Toronto. *The Canadian Geographer Journal*, 59(2), pp. 246–255, DOI: 10.1111/cag.12170.
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2016 **Jokar Arsanjani J.**, (2016): GlobeLand30 as an alternative fine-scale global land cover map: challenges, possibilities, and implications for developing countries, XXIII ISPRS Congress 2016, Prague, Czech Republic.

Jokar Arsanjani J., (2016): On the suitability of GlobeLand30 for mapping European landscapes: The case of Germany, XXIII ISPRS Congress 2016, Prague, Czech Republic.

2015 **Jokar Arsanjani J.**, See L., Milcinski G., Fonte C., Bastin L., Estima J., Lupia F., Fritz S. (2015) Assessment of the added value of OpenStreetMap for land cover/land use mapping, *ISRSE 2015*, Berlin, Germany.

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- Jokar Arsanjani, J.**, (2015). Towards a digital earth through integration of citizen-based sensing and remote sensing in collecting geoinformation of terrestrial objects, 36th International Symposium on Remote Sensing of Environment (ISRSE-36), Berlin, Germany
- 2014 **Jokar Arsanjani, J.**, Vaz, E., Bakillah, M., Mooney, P., (2014). Towards initiating OpenLandMap founded on citizens' science: The current status of land use features of OpenStreetMap in Europe, in proceedings of the 17th AGILE conference, Castellon, Spain.
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- Jokar Arsanjani, J.**, Vaz, E., (2014). Bringing citizen science into mapping global landscapes, in Proceedings of the First IMASS conference, Olhao, Portugal.
- 2013 Helbich M, **Jokar Arsanjani J.**, Leitner M, (2013): Driving Forces of Non-Violent Crimes in Houston, TX: A Spatially Filtered Negative Binomial Model. In Jekel T, Car A, Strobl J and Griesebner G: Geospatial Crossroads. GI_Forum '13. Proceedings of the Geoinformatics Forum Salzburg. Wichmann: Heidelberg, pp. pending.
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- Jokar Arsanjani J.**, Barron C, Bakillah M, Helbich M, (2013): Assessing the Quality of OpenStreetMap Contributors together with their Contributions, in Proceedings of the 16th AGILE conference, Leuven, Belgium.
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- Jokar Arsanjani, J.**, Helbich, M., Bakillah, M., (2013): Mapping Land Use Features from OpenStreetMap Contributions, GI_Forum conference 2013, Salzburg, Austria.
- 2012 Helbich M, **Jokar Arsanjani, J.**, (2012): Does Suburbia impact House Prices? An Empirical Evidence from the Metropolitan Area of Vienna, American Association of Geographers 2012, New York, USA.
- 2011 **Jokar Arsanjani J.**, Kainz, W, (2011): Integration of Spatial Agents and Markov Chain Model in Simulation of Urban Sprawl, in Proceedings of AGILE conference 2011, Utrecht, the Netherlands.

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- 2009 **Jokar Arsanjani, J.,** Mousivand, A., Komaki, C.B., (2009): Risk warning and crisis management for dust storm effects on western border of Iran, in Proceeding of the ISPRS symposium, Prague, 261-267,

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- 2021 Balázs, B., Mooney, P., Nováková, E., Bastin, L., & **Jokar Arsanjani, J.** (2021). Data quality in citizen science. *The Science of Citizen Science*, 139.
- Jokar Arsanjani, J.,** López Vázquez, R., (2020): Exploring the potential socio-economic and physical factors causing historical wildfires in the western United States, a book chapter in *Regional Intelligence – Spatial Analysis and Anthropogenic Regional Challenges in the Digital Age*, pp: pending.
- 2017 Leitner, M., **Jokar Arsanjani, J.,** (2017): An introduction to Citizen Empowered Mapping in Leitner, M., **Jokar Arsanjani, J.,** (eds), *Citizen Empowered Mapping*.
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WORKSHOPS TAUGHT

2018 “VGI-ALIVE: Volunteered Geographic Information: AnaLysis, Integration, Vision, Engagement”, a Pre-Conference Workshop at 21st AGILE International Conference on Geographic Information Science. Lund, Sweden, 12 June 2018.

2017 “VGI-Analytics: Volunteered Geographic Information (VGI): Integration, ANALYSIS, and applICationS”, a Pre-Conference Workshop at 20th AGILE International Conference on Geographic Information Science. Wageningen, 9 May 2017.

2016 “Geospatial Analysis of Disasters: Measuring Welfare Impacts of Emergency Relief”, **Heidelberg University, Germany** sponsored by AidData/USAID, July 18-19 2016.

“LINK-VGI: Linking and analyzing Volunteered Geographic Information (VGI) across different platforms”, a Pre-Conference Workshop at 19th AGILE International Conference on Geographic Information Science. Helsinki, 14 July 2016.

2015 “VALID-LAND: assessing the fitness of citizens observatories for LAND cover/use mapping & VALIDation purposes”, **AGILE 2015**, Portugal, June 9 2015.

“RICH-VGI: enRICHment of volunteered geographic information (VGI): Techniques, practices and current state of knowledge”, **AGILE 2015**, Portugal, June 9 2015.

“Quality analysis of Volunteered Geographic Information (VGI) towards effective use”, **9th International Symposium on Spatial Data Quality (ISSDQ 2015)**, Sept 29-30 2015, Montpellier – La Grande Motte, France.

2014 “Visual Crowds for Geo- and Environmental Sciences”, **Heidelberg University**, Dec 5, Heidelberg, Germany.

2013 “ACTIVITY: Action and Interaction in Volunteered Geographic Information”, **AGILE 2013**, May 14, Leuven, Belgium.

ARTICLES REVIEWED

Applied Spatial Analysis and Policy (Springer), International Journal of Digital Earth (Taylor & Francis), Cities (Elsevier), Earth science informatics (Springer), Environmental informatics, Environmental Modeling & Assessment (Springer), Environmental planning and management (Taylor & Francis), Geomatics, natural hazards, risks (Taylor & Francis), International Journal of Geographical Information Science (Taylor & Francis), Environmental Engineering and Management, Environmental processes

(Springer), Landscape and urban planning (Elsevier), Land use policy (Elsevier), Natural hazard (Springer), Transactions in GIS (Wiley Blackwell), Civil Engineering Infrastructures Journal, Cartography and Geographic Information Science (Taylor & Francis), Entropy, Land, ISPRS International Journal of Geo-information, Remote Sensing (MDPI), International Journal of Spatial Data Infrastructures Research.

TEACHING EXPERIENCE

2020- present	Geocomputation and Spatial Analytics Aalborg University, Denmark
2020-present	Water management and sustainable cities Aalborg University, Denmark
2017-present	Modern Data Acquisition Methods Aalborg University Copenhagen, Denmark
2016-present	Geospatial Information Technology Aalborg University Copenhagen, Denmark
2016-present	Professional Development Aalborg University Copenhagen, Denmark
2016-present	Master thesis Aalborg University Copenhagen, Denmark
2016-7	Land Governance and Geographic Information in a Societal Context Aalborg University Copenhagen, Denmark
2016-present	Geovisualization and Remote Sensing Aalborg University Copenhagen, Denmark
2014-5	Volunteered Geographic Information in theory and practice, Heidelberg University, Germany
2013	Land use/Land cover modelling, Heidelberg University, Germany
2012	Introduction to Geoinformatics, Heidelberg University, Germany
2007	Remote Sensing in Environmental Studies, Department of Agronomy, Tarbiat Modarres University of Tehran, Iran
2006	Introduction to GIScience, Department of Agronomy, Tarbiat Modarres University of Tehran, Iran

INVOLVEMENT IN PROJECTS

2019-2023	COST Action CA18135, FireLinks: Fire in the Earth System: Science & Society, Aalborg University Copenhagen, Denmark (Funding: H2020) Management Committee member
2016-2018	COST Action TD1403, Big-Sky-Earth: Big Data Era in Sky and Earth Observation, Aalborg University Copenhagen, Denmark (Funding: H2020) Management Committee member
2017-present	COST Action CA16209, Land4Flood: Natural Flood Retention on Private Land, Aalborg University Copenhagen, Denmark (Funding: H2020) Management Committee member

- 2017-present **COST Action CA16202, InDust: International Network to Encourage the Use of Monitoring and Forecasting Dust Products**, Aalborg University Copenhagen, Denmark (Funding: H2020)
Management Committee member
- 2017-present **COST Action CA15212: Citizen Science**, Aalborg University Copenhagen, Denmark (Funding: H2020)
Research associate
- 2014-2016 **CAP4Access**, GIScience research group, University of Heidelberg, Germany (Funding: FP7)
Research associate
- 2014-2016 **PsychoGeographie**, GIScience research group, University of Heidelberg, Germany (Funding: Baden-Württemberg state of Germany)
Research associate
- 2013-2016 **COST-ENERGIC: ICT COST Action IC1203: European Network Exploring Research into Geospatial Information Crowdsourcing: software and methodologies for harnessing geographic information from the crowd**, GIScience research group, University of Heidelberg, Germany (Funding: FP7)
Research associate
- 2013-2016 **COST Action TD1202: Mapping and the citizen sensor**, GIScience research group, University of Heidelberg, Germany (Funding: FP7)
Research associate
- 2013-2015 **osmAGENT**, GIScience research group, University of Heidelberg, Germany (Funding: Alexander von Humboldt foundation)
Project Leader
- 2013-2014 **GRIPS: GIS basiertes Risikoanalyse-, Informations- und Planungssystem für die Evakuierung von Gebieten**, GIScience research group, University of Heidelberg, Germany (Funding: Baden-Württemberg state of Germany)
Research associate
- 2011-2012 **RIVAF: A visual analytical approach to understanding poverty assessment through disaster impacts in Latin America and Africa**, United Nations Office in Vienna, UN-SPIDER (Funding: United Nations)
Research associate
- 2011 **CHIS: Cultural History Information System**, University of Vienna, Austria (Funding: Austrian Academy of Science)
Research associate
- 2007-2008 **Spatial planning of infrastructure in Venezuela**, Noandishan Company, (Funding: Ministry of industry)
Research associate
- 2006-2008 **Designing a Geographical Information System for Transmission and Sub Transmission Networks of Iran**, TM University of Tehran (Funding: Ministry of energy)
Research associate and GIS developer

MEMBER IN PROFESSIONAL ORGANIZATIONS

Association of Geographic Information Laboratories in Europe (AGILE)
Open Geospatial Consortium (OGC)
International Society of Digital Earth

PROFESSIONAL AND UNIVERSITY SERVICE

2015-present **Editor-in-Chief**, *Data Journal* (MDPI)
2014-present **Editorial Board**, *ISPRS International Journal of Geo-Information*, *Data*, *International Journal of Environmental Research and Public Health*, *Big Earth Data*

LANGUAGES

Persian: native
English: fluent
German: fluent
Danish: intermediate
Arabic: intermediate