Curriculum Vitae (April 2026)

Name: **Sadra Karimzadeh (PhD); IEEE GRSS Senior Member**

Date of birth: 20th September, 1986 (Tabriz, East-Azerbaijan province, Iran)

ORCID ID: 0000-0002-5645-0188

ResearchGate, Google Scholar, Scopus, researchmap

h-index: **26**, i10-index: **42**, citation > **1700**, FWCI (2020-2025): **1.54**; National and international research project **>10**

E-mails: sa.karimzadeh@tabrizu.ac.ir; sadra.karimzadeh@gmail.com; karimzadeh.s.aa@m.titech.ac.jp

Languages: English (professional); Turkish (fluent); Persian (fluent); Japanese (basic skills); Azerbaijani (mother tongue);

Ethic qualifications: Collaborative Institutional Training Initiative. **(1)** responsible conduct of research; **(2)** research misconduct, **(3)** data handling; **(4)** rules for collaborative research; **(5)** authorship; **(6)** plagiarism

Current position(s)

May 2024-present: Associate professor at Department of Remote Sensing and GIS, University of Tabriz, Iran

April 2023-present (remote position): Special researcher at Institute of Science Tokyo (former Tokyo Tech, Matsuoka Lab.), Japan

September 2019-present: Director at Remote Sensing Laboratory (www.rslut.ir), University of Tabriz, Iran

Previous positions

August 2024- September 2024: Short-time visiting researcher at Disaster Management Institute, Istanbul Technical University, Turkey

September 2022-April 2023: Invited research fellow (supported by TUBITAK #2221) at Civil Engineering Department, Gebze Technical University, Turkey

April 2021-March 2022: Research fellow at Tokyo Institute of Technology, Japan

September 2019-April 2024: Assistant professor at Department of Remote Sensing and GIS, University of Tabriz, Iran

January 2019-July 2019: Researcher at RIKEN AIP center, Japan

November 2016-November 2018: JSPS postdoc fellow at Tokyo Institute of Technology, Japan

May 2016-November 2016: Postdoctoral researcher, University of Tabriz, Iran

April 2014-September 2015: Teaching assistant at Kanazawa University, Japan

October 2012-September 2015: Research assistant at Kanazawa University, Japan

April 2010- October 2011: Engineer at Peykav Tabriz Co.

Education

March 2012-September 2015: PhD in Engineering (*with certificate of commendation*), Kanazawa University, Japan

October 2010-January 2012: MSc in Hydrographic Surveying at I. Azad University North Tehran branch, Tehran, Iran

October 2005-October 2009: BSc in Geomatics Engineering at I. Azad University, Iran

Number of postdoctoral researchers/MSc and PhD students

1 postdoctoral researcher, 5 PhD students, and 10 MSc students

Digital competence

Python, Matlab, Google Earth Engine (GEE), Anaconda Cloud, GIS Software, StaMPS, Remote Sensing Software, ABAQUS, GMT (Generic Mapping Tools)

Research interests

Remote Sensing, Earthquake Engineering, Disaster response, Spatial Information Engineering, Earthquake Damage, SAR (Synthetic Aperture Radar), Geo/water hazards, Infrastructure Monitoring

Teaching experience

Image fusion at University of Tabriz (PhD course), Remote sensing for Earth sciences and natural hazards at University of Tabriz (MSc course), Active remote sensing at University of Tabriz (MSc course), Urban remote sensing at University of Tabriz (MSc course), Advanced image processing at University of Tabriz (MSc course), Programming in GIS and remote sensing at University of Tabriz (MSc course), Artificial intelligence algorithms at University of Tabriz (MSc

course), Hyperspectral remote sensing at University of Tabriz (PhD course), Earthquake engineering and disaster prevention at Kanazawa University (BSc students), GIS and mathematics at Kanazawa University (BSc students), GIS and remote sensing applications at Kanazawa University (BSc students).

Professional Training and Workshops

COMET InSAR Training Workshop, UK Centre for Observation and Modelling of Earthquakes, Volcanoes and Tectonics (COMET), University of Leeds & University of Bristol, Online (UK), November 11–13, 2025.

Topics: InSAR fundamentals, time-series analysis, atmospheric correction, LiCSAR/LiCSBAS processing, deformation modeling, and deep learning for deformation detection.

Memberships

2013-2015: Japan Society of Civil Engineers (JSCE); **2015-2019:** Japan Society of Photogrammetry and Remote Sensing; **2012-present:** Iranian Society for Surveying and Geomatic Engineering; **2022-present:** International Society for Photogrammetry and Remote Sensing; **2023-2024:** IEEE GRSS (Geoscience and Remote Sensing Society) member; **2025-present:** IEEE GRSS Senior Member

Editorial activities and journal boards

September 2024-present: Member of editorial board of Turkish Journal of Remote Sensing

January 2021-January 2022: Guest editor of Remote Sensing MDPI, IF = 4.8 (Q1) (special issue: Improving Disaster Damage and Loss Assessments by Modeling and Remote Sensing Techniques)

March 2021-March 2022: Guest editor of Sensors MDPI, IF = 3.5 (Q1) (special issue: Remote Sensing and Field Sensing for Geoenvironmental Applications)

Reviewer responsibilities

Reviewer for **18** high-ranked international journals.

Soil Dynamics and Earthquake Engineering, Journal of Geodynamics, Seismological Research Letters, IEEE Transactions on Geoscience and Remote Sensing, IEEE Geoscience and Remote Sensing Letters, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, ISPRS Journal of Photogrammetry and Remote Sensing, Remote Sensing of Environment, International Journal of Remote Sensing, Bulletin of the Seismological Society of America, Natural Hazards, Natural Hazards and Earth System Sciences, Geomatics, Natural Hazards and Risk, Remote Sensing MDPI, Sensors MDPI, ISPRS IJGI MDPI, International Journal of Disaster Risk Reduction, Advances in Space Research.

Conference organizing

Scientific Secretary of 9th Advanced Engineering Days (AED), July 2024

Scientific committee member at the 4th Intercontinental Geoinformation Days, June 2022

Awards

(1) Outstanding researcher of East-Azerbaijan province of Iran (awarded by the governor of East-Azerbaijan province) **(2)** Outstanding researcher award of the Faculty of Planning and Environmental Sciences (2024); **(3)** Outstanding researcher award of the major group of humanity (2024); **(4)** TUBITAK #2221 fellowship for distinguished foreign scientists (2022); **(5)** Award for Tabriz-U300 grant-in-aid for international collaborations with world's top 300 universities (2021); **(6)** Research project award with society and industry (2020); Prize of grant-in-aid for young assistant professors provided by Iran national elite's foundation (2020); **(7)** Award for a publication in Nature (Scientific Reports) as a first author (2019); **(8)** JSPS postdoctoral fellowship [Standard] (highly prestigious fellowship in Japan, acceptance rate ~ 10%) (2016); **(9)** Postdoctoral award from National Elite's Foundation of Iran (2015); **(10)** Certificate of Commendation: Award of excellent performance and achievements in PhD, Kanazawa University, Japan (2015); **(11)** The hottest paper of Soil Dynamics and Earthquake Engineering (2014); **(12)** Monbukagakusho Scholarship of Japan – JASSO (2014); **(13)** Scholarship from Ishikawa prefecture (2013)

Grants and competitive funding

Research grants

2024 – Remote Sensing Laboratory annual research grant (~ 700 USD); Big Data and its feasibility for city management (~ 2500 USD)

2020 – TABRIZ U300 research Grant "Development of road quality proxy maps using satellite and in-situ data" (~ 1600 USD); Prize of grant-in-aid for young assistant professors provided by Iran national elite's foundation (~ 1500 USD)

2016 – **2019** Grant-in-Aid for JSPS Fellows, KAKENHI number: 16F16380 "SAR remote sensing and GIS for earthquake disaster management" (~15000 USD)

International conference organization and travel grant

2025 – The 10th BRICS Young Scientists Forum (~ 2000 USD); BRICS host (Brazil) and Vice-Presidency for Science, Technology (Iran) funding for the 10th BRICS Young Scientists Forum.
2024 – JAXA Travel Support for Principal Investigators of EO RA-3 (~ 2000 USD)**;** Conference organization funding for International Joint Conference of Advanced Engineering Days with Mersin University, Turkey (~ 2100 USD)**;** TUBITAK (Scientific and Technological Research Council of Turkey) travel grant to Istanbul Technical University (~ 1600 USD)

2012 – **2015** Japan Student Services Organization – JASSO (16000 USD); Research student grant from Ishikawa prefecture (~ 500 USD)

Publications

Peer-reviewed journal papers:

64- Rousta, Z., Samadianfard, S., Delirhasannia, R., **Karimzadeh, S.** 2026. Optimized deep learning frameworks for evapotranspiration modeling: integrating MODIS satellite data and stochastic fractal search. *Modeling Earth Systems Environment, Springer*, 12, 211, doi: https://doi.org/10.1007/s40808-026-02846-0.

63- **Karimzadeh, S.*,** Ghasemi, M., Matsuoka, M., Zulfikar, A.C., Miura, H., Fahjan, Y. 2026. Damage Assessment Following M 7.8 and 7.5 Earthquakes in Turkey in 2023 Using Space-borne Synthetic Aperture Radar (SAR) Imagery and CNN. *Advances in Space Research, Elsevier*, doi: https://doi.org/10.1016/j.asr.2026.06.009.

62- Feizizadeh, B. , Yarian, P. , Blaschke, T. , **Karimzadeh, S.,** Yakar, M. 2026. Integrated quantitative and qualitative GIS based drought analysis and salt/dust storm impacts on food security. *Earth Observation and Geomatics Engineering*, *9* (1), doi: 10.22059/eoge.2026.409715.1196.

61- Bagheri, S., **Karimzadeh, S.*,** Jeihouni, M., Sadegh, Fielding, E., Miura, H. 2026. Advancing disaster response with a comparative multisensor satellite imagery approach: The 2025 Palisades Fire in California. *Progress in Disaster Science, Elsevier*, 30, 100573, doi: https://doi.org/10.1016/j.pdisas.2026.100573.

60- Yariyan, P., Feizizadeh, B., Blaschke, T., Yakar, M., **Karimzadeh, S.** 2026. Integrating environmental predictors and deep learning approach for spatiotemporal dust storm risk mapping and impacts modeling on land, health and food security. *International Journal of Digital Earth, Taylor & Francis*, 19, 1, doi: https://doi.org/10.1080/17538947.2026.2654262.

59- Waleed, M., Feizizadeh, B., Blaschke, T., **Karimzadeh, S.** 2026. A scenario-based spatiotemporal approach for analyzing the climate change environmental impacts on the wheat production and food security in Iraq. *Advances in Space Research, Elsevier*, 77, 5, 5737-5764. doi: https://doi.org/10.1016/j.asr.2025.12.105.

58- Azeez, A., **Karimzadeh, S.*,** Valizadeh, K., Matsuoka, M. 2025. Deformation analysis of embankment dam using field survey and multisensor InSAR time-series: A case study of Mosul Dam, Iraq. *Turkish Journal of Remote Sensing, DergiPark*, 7, 2, 244-262. doi: https://doi.org/10.51489/tuzal.1690530.

57- Sadeghi, M., Valizadeh, K., **Karimzadeh, S.,** Ghanbari, A., Samadianfard, S. 2025. A new approach to soil moisture estimation based on correlation between SAR and multispectral indices and seasonal pattern of soil moisture dynamics: a case study of Lake Urmia Basin. *International Journal of Engineering and Geoscience*, *DergiPark*, 11, 2, 392-407, doi: https://doi.org/10.26833/ijeg.1734366.

56- Cruz, A., Ghasemi, M., Karimzadeh, S., **Karimzadeh, S**., Aksan, A., Matsuoka, M., Lourenco, P. 2025. 28 March 2025 Myanmar earthquake: Strong ground motions, macroseismic intensity, liquefaction and ALOS-2 ScanSAR remote-sensing damage observations. *Seismological Research Letters*, *Seismological Society of America (SSA),* doi*:* https://doi.org/10.1785/0220250258.

55- Bagheri, S., **Karimzadeh, S.*,** Feizizadeh, B., Samadianfard, S. 2025. An integrated data-driven approach using dual polarized SAR data for spatiotemporal analysis of water surface changes*. Advances in Space Research, Elsevier*, 76, 11, 6623-6646, doi: https://doi.org/10.1016/j.asr.2025.09.018.

54- Abdulwahid, W.M., Feizizadeh, B., Blaschke, T., **Karimzadeh, S**. 2025. A Geoinformation Approach for Spatiotemporal Mapping of Climate Change Environmental Impacts on Sustainable Food Production in Iraq. *International Journal of Environmental Research, Springer*, 19, 175. https://doi.org/10.1007/s41742-025-00821-8.

53- **Karimzadeh, S.*** 2025. An investigation of ground deformation and infrastructure damages following Noto peninsula earthquake (2024) using L-band remote sensing, *Journal of Remote Sensing and GIS Applications in Environmental Sciences*, 4, 14, doi: https://doi.org/10.22034/rsgi.2025.64015.1106 [LINK].

52- Matsuoka, M., **Karimzadeh, S.,** Ogushi, F., Kuwabara, K., Nishimura, K., Yamaguchi, M. 2024. Affected Areas due to the 2024 Noto Peninsula Earthquake, Japan Observed by Synthetic Aperture Radar (SAR) Satellites, *Journal of The Remote Sensing Society of Japan*, 44, 1, 52-57. doi: https://doi.org/10.11440/rssj.44.52.

51- Ghasemi, M., Ghaffarian, S., **Karimzadeh, S.*,** Matsuoka, M., Miura, H., Feizizadeh, B. 2024. Evaluating multi-hazard preparedness for a major earthquake: A case study of Tabriz city (NW Iran). *International Journal of Disaster Risk Reduction, Elsevier*, 116, 105086, doi: https://doi.org/10.1016/j.ijdrr.2024.105086.

50- Wang, W., Motagh, M., Xia, Z, Lu, Z., **Karimzadeh, S.,** Zhou, C., Shevchenko, A., Roessner, S. 2024. Characterization of transient movements within the Joshimath hillslope complex: Results from multi-sensor InSAR observations. *PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, Springer,* 92, 629–648, doi: https://doi.org/10.1007/s41064-024-00315-w.

49- Toprak, S., Zulfikar, A.C., Mutlu, A. Tgsal, U., Nacaroglu, E., Karabulut, S., Ceylan, M., Ozdemir, K., Parlak, S., Dal, O., **Karimzadeh, S.** 2024. The aftermath of 2023 Kahramanmaras earthquakes: evaluation of strong motion data, geotechnical, building, and infrastructure issues. *Natural Hazards, Springer*, doi: https://doi.org/10.1007/s11069-024-06890-w.

48- Bagheri, A., Sadeghfam, S., **Karimzadeh, S.,** Nadiri, A.A. 2024. Subsidence vulnerability indexing using convolutional neural networks based on clustering and regression modeling strategies. *Groundwater for Sustainable Development, Elsevier,* doi: https://doi.org/10.1016/j.gsd.2024.101180.

47- Kuang, J., Ge, L., Hay-Man, A., Clark, S., **Karimzadeh, S.,** Matsuoka, M., Du, Z., Zhang, Q. 2024. Monitoring slope stabilization of a reactivate landslide in the three Gorges Reservior Region (China) with multi-source satellite SAR and optical datasets. *Landslides, Springer*, doi: https://doi.org/10.1007/s10346-024-02289-7.

46- Xia, Z., Motagh, M., Wang, W., Li, T., Peng, M., Zhou, C., **Karimzadeh, S.** 2024. Modeling slope instabilities with multi-temporal InSAR considering hydrogeological triggering factors: A case study across Badong County in the Three Gorges Area, *Remote Sensing of Environment, Elsevier*, doi: https://doi.org/10.1016/j.rse.2024.114212.

45- **Karimzadeh, S.*,** Zulfikar, A.C., Matsuoka, M. 2024. Time series analysis of L-band PALSAR-2 images in Istanbul and Kocaeli, Turkey, *Big Earth Data, Taylor & Francis,* doi: https://doi.org/10.1080/20964471.2024.2320466.

44- Golshadi, Z., Famiglietti, NA., Caputo, R., Soltani Moghadam, S., **Karimzadeh, S.,** Memmolo, A., Falco, L., Vicari, A. 2023. Contemporaneous thick- and thin-skinned seismotectonics in the external Zagros: the case of the 2021 Fin doublet, Iran, *Remote Sensing, MDPI*, 15(12), 2981, doi: https://doi.org/10.3390/rs15122981.

43- Mahdavifard, M., Kaviani, S., Feizizadeh, B., Valizadeh Kamran, K., **Karimzadeh, S.** 2023. Spatio-Temporal monitoring of Qeshm mangrove forests through machine learning classification of SAR and optical images on Google Earth Engine. *International Journal of Engineering and Geoscience, Dergipark*, 8(3), 239-250, doi: https://doi.org/10.26833/ijeg.1118542.

42- Aghazadeh, F., Ghasemi, M., Ghrajeh, M.K., Feizizadeh, B., **Karimzadeh, S.,** Morsali, R. 2023. An integrated approach of deep learning convolutional neural network and google earth engine for salt storm monitoring and mapping. *Atmospheric Pollution Research, Elsevier*, 14, 3, 101689, doi: https://doi.org/10.1016/j.apr.2023.101689.

41 - **Karimzadeh, S.*,** Valizadeh Kamran, Kh., Mahdavifard, M. 2022. A Multisensor Satellite Image Classification for Detection of Mangrove Forests in Qeshm Island (Southern Iran). *Applied Geomatics*, *Springer*, doi: https://10.1007/s12518-022-00475-7.

40 - **Karimzadeh, S.*,** Ghasemi, M., Matsuoka, M., Yagi, K., Zulfikar, A. 2022. A Deep Learning Model for Road Damage Detection after an Earthquake Based on Synthetic Aperture Radar (SAR) and Field Datasets. *Journal of Selected Topics in Applied Earth Observations and Remote Sensing, IEEE,* 15, 5753-5765, doi: https://10.1109/JSTARS.2022.3189875.

39 - Bagheri, S., **Karimzadeh, S.,** Feizizadeh, B. 2022. Investigation and modeling of physical development of urban areas and its effects on light pollution using night light data. *International Journal of Engineering and Geosciences, DergiPark*, 8, 98-110, doi: https://doi.org/10.26833/ijeg.976495.

38 - Fouladi Osgouei, H., Zarghami, M., Mosaferi, M., **Karimzadeh, S.,** 2022. A novel analysis of critical water pollution in the transboundary Aras River using the Sentinel-2 satellite images and ANNs. *International Journal of Environmental Science and Technology, Springer*, doi: https://doi.org/10.1007/s13762-022-04129-4.

37- Feizizadeh, B., Lakes, T., Omarzadeh, D., Sharifi, A., Blaschke, T., **Karimzadeh, S.,** 2022. Scenario-based analysis of the impacts of lake drying on food production in the Lake Urmia Basin of Northern Iran, *Scientific Reports, Nature*, 12,6237, doi: https://doi.org/10.1038/s41598-022-10159-2.

36- Bagheri, S., **Karimzadeh, S.,** Feizizadeh, B., 2022. Investigation and modeling of physical growth of urban areas and its impacts on traffic using night-time light data, *Journal of Geomatics Sciences and Technology*, 11 (3), 51-61 [LINK].

35- Nadiri, A.A., Habibi, I., Gharekhani, M., Sadeghfam, S., Barzegar, R., **Karimzadeh, S.,** 2022. Introducing dynamic land subsidence index based on the ALPRIFT framework using artificial intelligence techniques, *Earth Science Informatics, Springer*, doi: https://doi.org/10.1007/s12145-021-00760-w.

34- Mahmood Nasir, S., Valizadeh Kamran, Kh., Blaschke, T., **Karimzadeh, S.,** 2022. Change of land use / land cover in Kurdistan region of Iraq: A semi-automated object-based approach, *Remote Sensing Applications: Society and Environment, Elsevier,* 26, 100713, doi: https://doi.org/10.1016/j.rsase.2022.100713.

33- Abdikan, S., Bayik, C., Sekertekin, A.E., Balcik, F.B., **Karimzadeh, S.,** Matsuoka, M., Sanli, F.B., 2022. Burned Area Detection Using Multi-Sensor SAR, Optical and Thermal Data in Mediterranean Pine Forest, *Forests, MDPI*, 13(2), 347, doi: https://doi.org/10.3390/f13020347.

32- Mahdavifard, M., Jafari, S., Chookhachian, Y., **Karimzadeh, S.,** 2022. Observation of maritime traffic in southern Iran during the Covid-19 outbreak using Sentinel-1 images In the Google Earth Engine Platform, *Journal of Oceanography*, 13 (51) [LINK].

31- Omarzadeh, D., **Karimzadeh, S.*,** Matsuoka, M., Feizizadeh, B., 2021. Earthquake Aftermath from Very High-Resolution WorldView-2 Image and Semi-automated Object-Based Image Analysis, *Remote Sensing MDPI*, 13(21),4272, doi: https://doi.org/10.3390/rs13214272.

30- Ghasemi, M., **Karimzadeh, S.*,** Matsuoka, M., Feizizadeh, B., 2021. What Would Happen if the M 7.3 (1721) and M 7.4 (1780) Historical Earthquakes of Tabriz City (NW Iran) Occurred Again in 2021*?, ISPRS International Journal of Geo-Information, MDPI*, 10, 657, doi: https://doi.org/10.3390/ijgi10100657.

29- **Karimzadeh, S.*,** Matsuoka M., 2021. A Preliminary Damage Assessment Using Dual Path Synthetic Aperture Radar Analysis for the M 6.4 Petrinja Earthquake (2020), Croatia, *Remote Sensing, MDPI*, 13, 2267, doi: https://doi.org/10.3390/rs13122267.

28- Ghasemi, M., **Karimzadeh, S.*,** Feizizadeh, B., 2021, Urban Classification Using Preserved Information of High Dimensional Textural Features of Sentinel-1 Images in Tabriz, Iran*, Earth Science Informatics, Springer*, doi: https://doi.org/10.1007/s12145-021-00617-2.

27- **Karimzadeh, S.*,** Matsuoka, M., 2021. Development of Nationwide Road Quality Map: Remote Sensing Meets Field Sensing, *Sensors, MDPI*, 21, 2251, doi: https://doi.org/10.3390/s21062251.

26- Hasanlou, M., Shah-Hosseini, R., Seydi, ST., **Karimzadeh, S.,** Matsuoka M., 2021. Earthquake Damage Region Detection by Multi-Temporal Coherence Map Analysis of Radar and Multispectral Imagery, *Remote Sensing, MDPI*, 13, 1195, doi: https://doi.org/10.3390/rs13061195.

25- **Karimzadeh, S.*,** 2021. Identifying collapsed buildings after Sarpol-e Zahab earthquake using multisensor analysis and machine learning, *Journal of Geomatics Sciences and Technology*, 10, 3 [LINK].

24- Mohammadi, A., **Karimzadeh, S.,** Jalal, SJ., Valizadeh Kamran, Kh., Shahabi, H., Homayouni, S., Al-Ansari, N., 2020. A Multi-Sensor Comparative Analysis on the Suitability of Generated DEMs from Sentinel-1 SAR Interferometry Using Statistical and Hydrological Models, *Sensors, MDPI*, 20, 7214, doi: https://doi.org/10.3390/s20247214.

23- Hajeb, M., **Karimzadeh, S.*,** Matsuoka, M., 2020. SAR and LIDAR Datasets for Building Damage Detection Based on Support Vector Machine and Random Forest Algorithms – A Case Study of Kumamoto Earthquake, Japan, *Applied Sciences, MDPI*, 10, 8932, doi: https://doi.org/10.3390/app10248932.

22- Mohammadi, A., **Karimzadeh, S.*,** Valizadeh Kamran, Kh., Matsuoka, M., 2020. Extraction of Land Information, Future Landscape Changes and Seismic Hazard Assessment: A Case Study of Tabriz, Iran, *Sensors, MDPI*, 20, 7010, doi: https://doi.org/10.3390/s20247010.

21- **Karimzadeh, S.*,** Matsuoka, M., 2020. Ground Deformation in East Azerbaijan Province, Iran, Revealed by L-band and C-band InSAR Analyses, *Sensors, MDPI*, 20, 6913, doi: https://doi.org/10.3390/s20236913.

20- Mohammadi, A., Valizadeh Kamran, Kh., **Karimzadeh, S.,** Shababi, H., Al-Ansari, N., 2020. Flood Detection and Susceptibility Mapping Using Sentinel-1 Time Series, Alternating Decision Trees, and Bag-ADTree Models, *Complexity, Hindawi,* ID 4271376, doi: https://doi.org/10.1155/2020/4271376.

19- **Karimzadeh, S.*,** Matsuoka, M., 2020. Remote Sensing X-band SAR Data for Land Subsidence and Pavement Monitoring, *Sensors, MDPI*, 20, 4751, doi: https://doi.org/10.3390/s20174751.

18- Nhu, V.-H., Mohammadi, A., Shahabi, H., Ahmad, B.B., Al-Ansari, N., Shirzadi, A., Geertsema, M., R. Kress, V.R., **Karimzadeh, S**., Valizadeh Kamran, K., Chen, W., Nguyen, H., 2020. Landslide Detection and Susceptibility Modeling on Cameron Highlands (Malaysia): A Comparison between Random Forest, Logistic Regression and Logistic Model Tree Algorithms, *Forests , MDPI*, 11, 830, doi: https://doi.org/10.3390/f11080830.

17- Hajeb, M., **Karimzadeh, S.*,** Fallahi, A., 2020. Seismic damage assessment in Sarpole-Zahab town (Iran) using synthetic aperture radar (SAR) images and texture analysis, *Natural Hazards, Springer*, doi: https://doi.org/10.1007/s11069-020-03991-0.

16- **Karimzadeh, S.*,** Matsuoka, M., 2020. Ground Displacement and Building Damage Estimation of the 2017 Kermanshah Earthquake Using SAR Remote Sensing, Advance Researches in Civil Engineering, 2: 49-56, doi: https://doi.org/10.30469/arce.2020.106048.

15- **Karimzadeh, S.*,** Feizizadeh, B., Matsuoka, M., 2019. DEM-Based Vs30 Map and Terrain Surface Classification in Nationwide Scale—A Case Study in Iran*, ISPRS International Journal of Geo-Information, MDPI*, 8,12, doi: https://doi.org/10.3390/ijgi8120537.

14- **Karimzadeh, S**.*, Matsuoka, M., Kuang, J., Ge, L., 2019. Spatial Prediction of Aftershocks Triggered by a Major Earthquake: A Binary Machine Learning Perspective, *ISPRS International Journal of Geo-Information, MDPI,* 8,10, doi: https://doi.org/10.3390/ijgi8100462.

13- **Karimzadeh, S.*,** Matsuoka, M., 2018. A Weighted Overlay Method for Liquefaction-related Urban Damage Detection: A Case Study of the 6 September 2018 Hokkaido Eastern Iburi Earthquake, Japan, *Geosciences, MDPI*, 8, 487, doi: https://doi.org/10.3390/geosciences8120487.

12- **Karimzadeh, S.*,** Matsuoka, M., Miyajima, M., Adriano, B., Fallahi, A., Karashi, J., 2018. Sequential SAR Coherence Method for the Monitoring of Buildings in Sarpole-Zahab, Iran, *Remote Sensing, MDPI*, 10, 1255, doi: https://doi.org/10.3390/rs10081255.

11- Miyajima, M., Fallahi, A.; Ikemoto, T., Samaei, M., **Karimzadeh, S.,** Setiawan, H., Talebi, F., Kareshi, J., 2018. Site Investigation of the Sarpole-Zahab Earthquake, Mw 7.3 in SW Iran of November 12, 2017, *Journal of Disaster Factsheets, JSCE,* FS2018-E-0002.

10- **Karimzadeh, S.*,** Matsuoka, M., Ogushi, F., 2018. Spatiotemporal deformation patterns of the Lake Urmia Causeway as characterized by multisensor InSAR analysis. *Scientific Reports, Nature*, Vol.8, 5357, 10p., 2018.4, doi: https://doi.org/10.1038/s41598-018-23650-6.

9- **Karimzadeh, S.*,** Miyajima, M., Ikemoto, T., 2018. Topographic characterization of seismic networks using topographic position index and Voronoi tiles: a case study: Hokuriku region, Japan. *Arabian Journal of Geosciences, Springer*, 11: 99, doi: https://doi.org/10.1007/s12517-018-3451-4.

8- **Karimzadeh, S**.*, Matsuoka, M., 2018. Building Damage Characterization for the 2016 Amatrice Earthquake Using Ascending-Descending COSMO SkyMed Data and Topographic Position Index. *Journal of Selected Topics in Applied Earth Observations and Remote Sensing, IEEE*, 11 (8), 2668-2682 , doi: https://doi.org/10.1109/JSTARS.2018.2825399.

7- **Karimzadeh, S.*,** Matsuoka, M., 2017. Building Damage Assessment Using Multisensor Dual-Polarized Synthetic Aperture Radar Data for the 2016 M 6.2 Amatrice Earthquake, Italy. *Remote Sensing, MDPI*, 9 (4), 330, doi: https://doi.org/10.3390/rs9040330.

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*** = Corresponding author**

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2- Remote Sensing of Vulnerability, *The 8th ISDE (International Society for Digital Earth), International Lectures*, January 2024 >> LINK

1- L-band SAR remote sensing: activities and trend, *The Joint PI (principal Investigator) Meeting of Earth Observation FY 2024, JAXA*, November 2024 >> LINK

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2- 2024 年の能登地震: 輪島市の建物損壊、1 割が甚大, Nikkei Newspaper(日本経済新聞)>> LINK

1- Earthquake in Turkey-Syria border (2023): Reported by Sentinel Asia >> LINK