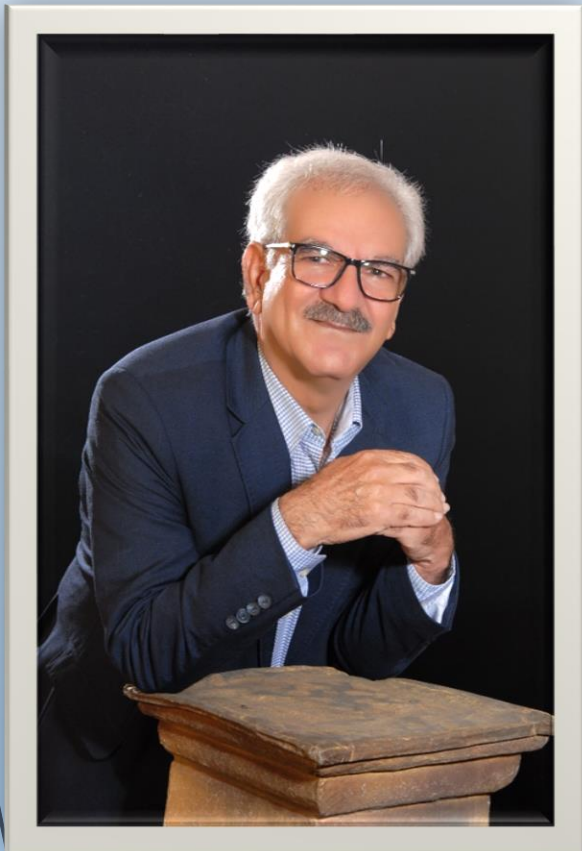




# Curriculum Vitae

*(Prof.) Seyed Kazem Alavihanah*



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Remote Sensing & GIS

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University of  
Tehran, Iran

## **Personal:**

- ✚ Name: Seyed Kazem
- ✚ Surname: Alavipanah
- ✚ Born on 03/08/1958, Abarkooh, Iran.
- ✚ Married with three children

## **Address:**

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- ✚ Faculty of Geography,
- ✚ University of Tehran, Iran.
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- ✚ **Website:** <http://dralavipanah.ir>

## **Language:**

- ✚ Persian (mother tongue) and English (fluent)

## **Education:**

- ✚ **B.Sc.** Soil science, University of Shiraz, Iran, 1983
- ✚ **M.Sc.** Soil Science (Soil Salinity), University of Tarbiat Moddaress, Tehran, Iran
- ✚ **M.Sc.** Soil Science (Remote Sensing and GIS), University of Gent, Belgium, 1995
- ✚ **Ph.D.** Soil Science (Remote Sensing and GIS), University of Gent, Belgium, 1997



## **Awards and Honors:**

1. The best student paper awarded by Isfahan University, 1988.
2. The best presented paper in Remote Sensing Conference in India, awarded in 1988.
3. The best paper awarded by Vice chancellor of Ministry of Education in 1989.
4. The best paper presented in Varamin City, Iran awarded by Varamin governor, 1989.
5. The selected research project titled: "surface temperature of Lut desert" awarded by University of Tehran, 2005.
6. The best Professor in University of Tehran in 2005.
7. The best project in the field of application of RS\GIS awarded by University of Tehran in 2001.
8. The selected research project awarded by University of Tehran, 2004.
9. Acknowledged by the International Conference of Remote Sensing and GIS mapping by the International Institute of Space and Earth Sciences of India and the Netherlands.
10. The best research project in the country awarded by the Ministry of Labour and Social Welfare, 1988.
11. The best paper presented in Conference of Geomatics in 1997.
12. The best paper presented in Conference of Geomatics in 2002.
13. Certificate of Appreciation for the best paper in International Conference of Soil Classification, China 1991.
14. Certificate of Appreciation for holding the 1<sup>st</sup> Conference on Application of Remote Sensing and GIS in Study about Central parts of Lut Desert, Iran.
15. The best researcher awarded by University of Tehran, in 2004.
16. Certificate of Appreciation for the top prominent researcher of Iran by Ministry of Science, Research and Technology of Iran.
17. The best scientific research ranked second awarded by University of Tehran, 2004.
18. The best project selected in University of Tehran, 2006.
19. Publication of the book selected as the best in 2007, Thermal Remote Sensing and its Application in Earth Science.
20. Full professor in University of Tehran since 2008.

21. The best book acknowledged by Islamic Republic of Iran ,2007 (Thermal Remote Sensing and its Application in Earth Science).
22. The best author in University of Tehran in 2008.
23. Scholarship from German Academic Exchange Service of University of Gottingen, Germany 2010.
24. Presenting the theory of “Heat as an Indicator for Intelligence of the World” (relation of time, space, and thermal) for the first in the world, and holding the conference of Heat as an Indicator for Intelligence of the World. 2011.
25. Selected as the international professor of University of Tehran, 2012.
26. Certificate of Appreciation by SMPR (ISPRS) conference for keynote speaker.
27. Erasmus Scholarship from Freie university of Berlin 2012.
28. Head speaker of EARSEL seminar.
29. Establishment of RS and GIS PhD in geography faculty, University of Tehran, 2012.
30. The Award of Allame Tabatabaei by The President of Islamic Republic of Iran, 2014.
31. Establishment of the fist B. S course of Remote Sensing & GIS in university of Tehran. Iran.
32. Establishment of the first M.Sc course of Remote Sensing & GIS in university of Tehran .Iran.
33. Establishment of the first Ph.D course of Remote Sensing & GIS in university of Tehran .Iran.
34. Book of thermal remote sensing selected as one of the 80 treasures of university of Tehran press.
35. Two Quatrain of Khayyam included in Pillar II of World Soil Charter.2014.
36. The selected professor in university of Tehran, 2016
37. Certificate of Appreciation University of Shiraz for keynote speaker, 2016.
38. Certificate of Appreciation by 2<sup>nd</sup> International Geosciences congress for keynote speaker, 2016.
39. Certificate of Appreciation by 1<sup>st</sup> South Asian SURE Conference for keynote speaker. 2017, Pakistan.
40. Cooperation in preparation of the Remote sensing programs of I.R.Iran.



41. Certificate of Appreciation by 2<sup>nd</sup> world congress on GIS and Remote Sensing for keynote speaker. 2017, Munich, Germany.
42. The first person to become a professor of remote sensing in Iran.
43. Editorial Board of Journal of Applied Geomorphology

## **Work Experiences:**

- ✚ **2004 to present:** The Deputy of post graduate, Faculty of Geographty, University of Tehran, Iran
- ✚ **2003 to present:** Associated professor, Faculty of Geography, University of Tehran, Iran
- ✚ **1998 to 2003:** Deputy of Research, International Research Center for Coexisting with Desert, University of Tehran, Iran
- ✚ **1997 to 2003:** Assistant professor in soil science (Remote sensing, GIS and soil salinity). Iran Desert Research Center, University of Tehran, Iran
- ✚ **1993 to 1997:** Post graduate student for Ph.D in Belgium
- ✚ **1992 to 1993:** Scientific member, Iran Desert Research Center, University of Tehran, Iran
- ✚ **1988 to 1990:** Post graduate student for M.Sc. in Iran
- ✚ **1983 to 1991:** Head of Agricultural department, Ministry of Agriculture (Jihade Keshavarzi), Abadeh, Iran
- ✚ **1990 to 1991:** Range land and Forests Organization, Ministry of Jihade Keshavarzi (Agriculture), Tehran, Iran
- ✚ **2008 to present:** Professor of Faculty of Geography, University of Tehran
- ✚ **2016:** Chair of International summit of health and lifestyles Global Soil Threats.

## **Membership:**

1. Scientific Association of EARSEL.
2. Scientific Association of Desert.
3. Board of Directors of Scientific Association of Iran RS & GIS.
4. Board of Directors of Agriculture of engineering organization (NGO) of Iran.
5. Committee of Natural Resource Planning, Iran.

6. Research council of University of Tehran.
7. The Editorial Board of Biaban Journal (Desert Journal, Iran), University of Tehran.
8. -The Editorial Board of Geographical research, University of Tehran.
9. The high council for Natural Disasters, Ministry of the interior, University of Tehran, Iran.
10. -The Editorial Board of Iran Geology, University of Shahid beheshti.
11. The postgraduate commission of University of Tehran.
12. - The research commission of University of Tehran.
13. Commission of environment, University of Tehran.
14. The research commission of Iran Desert Research Center, University of Tehran.
15. The high council for science and technology of desertification of Iran.
16. The Editorial Board of Olome Zamin, University of Sahid Chamran.
17. Full professor in University of Tehran since 2008.
18. Editorial Board of RS & GIS, University of Shahid beheshti
19. Commission of **Iran's** National Elite Foundation.
20. International UNCCD-Cop10 (United Nations Convention to Combat Desertification), southern Korea.
21. Chairman of the national conference on the application of Remote Sensing and GIS in desert.
22. -The Commission of Iranian Remote Sensing and Geographic Information system society.
23. Human science commission of **Iran's** National Elite Foundation.
24. Selected member of ITPS.
25. Member of FAO.
26. Iran Hazards Advisory Council
27. Geography and Land use Planning and Advisory Council, vice president of strategic monitoring
28. The editorial board of Iran agricultural research, University of Shiraz
29. The editorial board of International Journal of Geo-Science and Environmental Planning
30. American Geophysical Union (AGU)
31. European Geosciences Union



## **Publications**

### **Books**

- ✚ So far and so close (searches for a difference of ideas), 2020, Tarfand Publishing.
- ✚ Quantitative remote sensing in thermal infrared theory and application (translated), 2019, University of Tehran.
- ✚ A practical guide to remote sensing (translated), 2019, University of Tehran.
- ✚ Remote Sensing of Vegetation- Principles, Techniques and Applications (translated), 2017. University of Tehran.
- ✚ Remote Sensing Image Fusion (translated), 2019, University of Tehran.
- ✚ Advances in Environmental Remote Sensing Sensors, Algorithms and Applications (translated), 2017. University of Tehran.
- ✚ Fire decryption and Heat phenomenology. 2016. University of Tehran.
- ✚ Science and Love, 2016. Tarfand press.
- ✚ Plan of action for pillar two of the global soil partnership, 2016, FAO.
- ✚ Research methods in Remote Sensing (translated). 2015. University of Tehran.
- ✚ Demystifying fire and phenomenology of heat from ancient to nowadays, 2015, University of Tehran.
- ✚ Status of the World's Soil Resources (Main Report). 2015. Food and Agriculture Organization of the United Nation.
- ✚ Remote sensing of soil salinity (translated). 2014. University of Tehran.
- ✚ Remote Sensing and GIS (translated), 2012. University of Tehran.
- ✚ Fundamental of modern Remote Sensing and interpretation of satellite imagery and aerial photos. 2007. University of Tehran.
- ✚ The application of Information Technology in the earth sciences. 2008. University of Tehran.
- ✚ Thermal Remote Sensing and its applications in the earth sciences. 2006. University of Tehran.
- ✚ The applications of Remote Sensing in the earth sciences. 2003. University of Tehran.
- ✚ Drought Management in The Third millennium.

## Book Chapter

- ✚ **Alavipanah, S.K.**, Talebi, S., and Amiraslani F., 2012. Predictability of Water Sources Using Snow Maps Extracted from the Modis Imagery in Central Alborz, Iran.
- ✚ - Mojtaba Naghdyzadegan Jahromi, Maryam Naghdizadegan Jahromi, Babak Zolghadr-Asli, Hamid Reza Pourghasemi, **Seyed Kazem Alavipanah**. Google Earth Engine and its application in forest sciences (2020) Springer's

## English papers

### ✚ International Journals

1. Saham Mirzaei, Ali Darvishi Bolorani, Hossein Ali Bahrami, **Seyed Kazem Alavipanah**, Alijafar Mousivand, Abdul Mounem Mouazen. 2022. Minimizing the effect of moisture on soil property prediction accuracy using external parameter orthogonalization. Soil and Tillage Research, 215: 105225.
2. Mohammad Karimi Firozjaei, Majid Kiavarz, **Seyed Kazem Alavipanah**. 2021. Decision-level Integration Window Strategy in Satellite Imagery-derived Land Surface Temperature Disaggregation. Geocarto International, 56: 1-17.
3. Javad Koochpayma, Mohsen Makki, Jan Lentschke, **Seyed Kazem Alavipanah**. 2021. Predicting potential locations of ancient settlements using GIS and Weights-Of-Evidence method (case study: North-East of Iran). Journal of Archaeological Science: Reports, 40: 103229.
4. Eslam Galehban, Saeid Hamzeh, Shadman Veysi, **Seyed Kazem Alavipanah**. 2021. Estimation of daily reference evapotranspiration using remote sensing data (Case study of Sistan and Baluchestan province). Iranian Journal of Remote Sensing & GIS
5. Mohsen Dastaran, Shahin Jafari, Hossein Moslemi, Sara Attarchi, **Seyed Kazem Alavipanah**. 2021. Change Detection of Bakhtegan wetland using a time series of satellite data on the Google Earth Engine platform and predicting parameters with Facebook's Prophet Model. Journal of RS and GIS for Natural Resources, 12: 33-52.





6. Sara Atarchi, Mahsa Gheysari, Saeid Hamzeh, **Seyed Kazem Alavipanah**. 2021. Land Cover Classification of Anzali Wetland Using Fusion of Sentinel 1 and ALOS/PALSAR 2 Images. *Iranian journal of Ecohydrology*, 8(3): 611-622.
7. Hossein Shafizadeh-Moghadam, Morteza Khazaei, **Seyed Kazem Alavipanah**, Qihao Weng. 2021. Google Earth Engine for large-scale land use and land cover mapping: An object-based classification approach using spectral, textural and topographical factors. *GIScience & Remote Sensing*, 58 (6): 914-928.
8. Ali Sadeghi, Ali Darvishi Bolorani, Ata Abdollahi Kakroodi, **Seyed Kazem Alavipanah**, Saeid Hamzeh. 2021. Removing the Vegetation Effect in Mineral Maps Produced by Hyperion. *Journal of the Indian Society of Remote Sensing*, 49(8): 1811-1821.
9. M Konyushkova, **S Alavipanah**, A Heidari, D Kozlov, Meshalkina Yu, I Semenov. 2021. Spatial and seasonal salt translocation in the young soils at the coastal plains of the Caspian Sea. *Quaternary International*, 590:15-25.
10. Mohammad Karimi Firozjaei, Solmaz Fathololomi, Majid Kiavarz, Jamal Jokar Arsanjani, Mehdi Homae, **Seyed Kazem Alavipanah**. 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.
11. Ali Sadeghi, Ali Darvishi Bolorani, Ata Abdollahi Kakroodi, **Seyed Kazem Alavipanah**, Saeid Hamzeh. 2021. Removing the Vegetation Effect in Mineral Maps Produced by Hyperion, *Journal of the Indian Society of Remote Sensing*, 1-11.
12. Mohammad Karimi Firozjaei, Solmaz Fathololoumi, Majid Kiavarz, Asim Biswas, Mehdi Homae, **Seyed Kazem Alavipanah**. 2021. Land Surface Ecological Status Composition Index (LSESCI): A novel remote sensing-based technique for modeling land surface ecological status. *Ecological Indicators*, 123: 107375.
13. Solmaz Fathololoumi, Ali Reza Vaezi, **Seyed Kazem Alavipanah**, Ardavan Ghorbani, Daniel Saurette, Asim Biswas. 2021. Effect of multi-temporal satellite images on soil moisture prediction using a digital soil mapping approach. *Geoderma*, 385: 114901.
14. Mohammad Karimi Firozjaei, Amir Sedighi, Hamzeh Karimi Firozjaei, Majid Kiavarz, Mehdi Homae, Jamal Jokar Arsanjani, Mohsen Makki, Babak Naimi, **Seyed Kazem Alavipanah**. 2021. A historical and future impact assessment of mining activities on

surface biophysical characteristics change: A remote sensing-based approach. *Ecological Indicators*, 122: 107264.

15. Hossein Fekrat, Sayyad Asghari Saraskanrood, **Seyed Kazem Alavipanah**. 2020. Estimation of Ardabil land surface temperature using Landsat images and accuracy assessment of land surface temperature estimation methods with ground truth data. *Journal of RS and GIS for Natural Resources*, 114-136.
16. Solmaz Fathololoumi, AR Vaezi, **Seyed Kazem Alavipanah**, C Montzka, A Ghorbani, A Biswas. 2020. Soil temperature modeling using machine learning techniques. *Desert*, 185-199.
17. Maria Konyushkova, **Seyed Kazem Alavipanah**, A Heidari, D Kozlov, Meshalkina Yu, I Semenkov. 2020. Spatial and seasonal salt translocation in the young soils at the coastal plains of the Caspian Sea. *Quaternary International Journal*.
18. Salman Qureshi, **Seyed Kazem Alavipanah**, Maria Konyushkova, Saeid Hamzeh, Ata Abdollahi Kakroodi, Naeim Mijani, Solmaz Fathololoumi, Mohammad Karimi Firozjaei, Mehdi Homae. 2020. A Remotely Sensed Assessment of Surface Ecological Change over the Gomishan Wetland, Iran. *Remote sensing*, 2989, 12.
19. Iman Khosravi, Yury Razoumny, Javad Hatami Afkoueieh, **Seyed Kazem Alavipanah**. 2020. An ensemble method based on rotation calibrated least squares support vector machine for multi-source data classification. *International Journal of Image and Data Fusion*, 1-16.
20. Mehrdad Jeihouni, **Seyed Kazem Alavipanah**, Ara Toomanian, Ali Asghar Jafarzadeh. 2020. Soil texture fractions modeling and mapping using LS-SVR algorithm. *Desert*, 147-154.
21. Mehrdad Jeihouni, **Seyed Kazem Alavipanah**, Ara Toomanian, Ali Asghar Jafarzadeh. 2020. Digital mapping of soil moisture retention properties using solely satellitebased data and data mining techniques. *Journal of Hydrology*, pp.1-13.
22. Mohammad Karimi Firozjaei, Solmaz Fathololoumi, Majid Kiavarz, Jamal Jokar Arsanjani, **Seyed Kazem Alavipanah**. 2020. Modelling surface heat island intensity according to differences of biophysical characteristics: A case study of Amol city, Iran, *Ecological Indicators*, pp.1-13.



23. Solmaz Fathololoumi , Ali Reza Vaezi, **Seyed Kazem Alavipanah** , Ardavan Ghorbani ,Daniel Saurette , Asim Biswas, Improved digital soil mapping with multitemporal remotely sensed satellite data fusion: A case study in Iran, *Science of the Total Environment*, 2020, pp.1-14.
24. Mohammad Karimi Firozjaei, Solmaz Fathololoumi, **Seyed Kazem Alavipanah**,Majid Kiavarz, Ali Reza Vaezi, Asim Biswasd,A new approach for modeling near surface temperature lapse rate based on normalized land surface temperature data, *Remote Sensing of Environment*,2020,pp.1-20.
25. Naeim Mijania, **Seyed Kazem Alavipanah**, Mohammad Karimi Firozjaeia, Jamal Jokar Arsanjanib, Saeid Hamzeha, Qihao WengcModeling outdoor thermal comfort using satellite imagery: A principle component analysis-based approach, *Ecological Indicators*, 2020, pp. 1-14.
26. Mohammad Karimi Firozjaei, Solmaz Fathololoumi, Naeim Mijani , Majid Kiavarz, Salman Qureshi, Mehdi Homae , **Seyed Kazem Alavipanah**, 2020, remot sensing, Evaluating the Spectral Indices Efficiency to Quantify Daytime Surface Anthropogenic Heat Island Intensity: An Intercontinental Methodology. *Remote Sensing*.
27. Mohammad Karimi Firozjaei,Solmaz Fathololoumi, Naeim Mijani, Majid Kiavarz ,Salman Qureshi,Mehdi Homae and **Seyed Kazem Alavipanah**, 2020, Evaluating the Spectral Indices Eciency to Quantify Daytime Surface Anthropogenic Heat Island Intensity: An Intercontinental Methodology, *remote sensing*, 12, 2854; doi:10.3390/rs12172854.
28. Bahram Bahrambeygi,, H. Moeinzadeha,, **Seyed Kazem Alavipanah**, 2020, Introduction of meta-harzburgites using Contact originated Minerals in the Gishaki ophiolitic area, as a part of Iranian Alpine type ophiolites, *Desert*, 2(23),41-52.
29. Mohammad Karimi Firozjaei, Majid Kiavarz, Mehdi Homae, Jamal Jokar Arsanjani, **Seyed Kazem Alavipanah**, 2020, A novel method to quantify urban surface ecological poorness zone: A case study of several European cities, *Science of the Total Environment*.
30. Cheraghi, F., Delavar, M. R., Amiraslani, F., **Alavipanah, S. K.**, Gurarie, E., Jowkar, H., ... & Fagan, W. F. (2019). Inter-dependent movements of Asiatic Cheetahs *Acinonyx*

jubatus venaticus and a Persian Leopard Panthera pardus saxicolor in a desert environment in Iran (Mammalia: Felidae). *Zoology in the Middle East*, 1-10.

31. Khosravi, I., & **Alavipanah, S. K.** (2019). A random forest-based framework for crop mapping using temporal, spectral, textural and polarimetric observations. *International Journal of Remote Sensing*, 40(18), 7221-7251.
32. Firozjaei, M. K., Daryaei, I., Sedighi, A., Weng, Q., & **Alavipanah, S. K.** (2019). Homogeneity Distance Classification Algorithm (HDCA): A Novel Algorithm for Satellite Image Classification. *Remote Sensing*, 11(5), 546.
33. Firozjaei, M. K., Kiavarz, M., Nematollahi, O., Karimpour Reihan, M., & **Alavipanah, S. K.** (2019). An evaluation of energy balance parameters, and the relations between topographical and biophysical characteristics using the mountainous surface energy balance algorithm for land (SEBAL). *International Journal of Remote Sensing*, 40(13), 5230-5260.
34. Khalili, M., **Alavipanah, S. K.**, & Eskandar, S. S. A. (2019). Using Robust Satellite Technique (RST) to determine thermal anomalies before a strong earthquake: A case study of the Saravan earthquake (April 16th, 2013, MW= 7.8, Iran). *Journal of Asian Earth Sciences*, 173, 70-78.
35. Mahmoudi, F. T., Arabsaedi, A., & **Alavipanah, S. K.**(2018). Feature-Level Fusion of Landsat 8 Data and SAR Texture Images for Urban Land Cover Classification. *Journal of the Indian Society of Remote Sensing*, 1-7.
36. Weng, Q., Firozjaei, M. K., Sedighi, A., Kiavarz, M., & **Alavipanah, S. K.** (2018). Statistical analysis of surface urban heat island intensity variations: A case study of Babol city, Iran. *GIScience & Remote Sensing*, 1-29.
37. Khandan, R., **Alavipanah, S. K.**, Biazar, A. P., & Gharaylou, M. (2018). Probabilistic Convective Initiation Nowcasting with Reduced Satellite-NWP Predictors over Iran. *Asia-Pacific Journal of Atmospheric Sciences*, 54(3), 431-443.
38. Jeihouni, M., Toomanian, A., **Alavipanah, S. K.**, Hamzeh, S., & Pilesjö, P. (2018). Long term groundwater balance and water quality monitoring in the eastern plains of Urmia Lake, Iran: A novel GIS based low-cost approach. *Journal of African Earth Sciences*. 147, 11-19



39. Firozjaei, M. K., Kiavarz, M., **Alavipanah, S. K.**, Lakes, T., & Qureshi, S. (2018). Monitoring and forecasting heat island intensity through multi-temporal image analysis and cellular automata-Markov chain modelling: A case of Babol city, Iran. *Ecological Indicators*, 91, 155-170. Chicago
40. Ebrahimi-Khusfi, M., **Alavipanah, S. K.**, Hamzeh, S., Amiraslani, F., Neysani, N. S., & Wigneron, J. P. (2017). Exploiting the synergy between SMAP and SMOS to improve brightness temperature simulations and soil moisture retrievals in arid regions. *Journal of Hydrology*, 557, 740–752.
41. Ebrahimi-Khusfi, M., **Alavipanah, S. K.**, Hamzeh, S., Amiraslani, F., Neysani Samany, N., & Wigneron, J. P. (2018). Comparison of soil moisture retrieval algorithms based on the synergy between SMAP and SMOS-IC. *International Journal of Applied Earth Observation and Geoinformation*, 67, 148-160.
42. Cheraghi, F., Delavar, M. R., Amiraslani, F., **Alavipanah, S. K.**, Gurarie, E., & Fagan, W. F. (2017). Statistical analysis of Asiatic cheetah movement and its spatio-temporal drivers. *Journal of Arid Environments*. In press
43. Arrouays, D., Leenaars, J. G., Richer-de-Forges, A. C., Adhikari, K., Ballabio, C., Greve, M., .... **Alavipanah, S. K.** & Heuvelink, G. (2017). Soil legacy data rescue via GlobalSoilMap and other international and national initiatives. *GeoResJ*, 14, 1-19.
44. Akbari, E., **Alavipanah, S. K.**, Jeihouni, M., Hajeb, M., Haase, D., & Alavipanah, S. (2017). A Review of Ocean/Sea Subsurface Water Temperature Studies from Remote Sensing and Non-Remote Sensing Methods. *Water*, 9(12), 936.
45. Jeihouni, M., Toomanian, A., **Alavipanah, S. K.**, & Hamzeh, S. (2017). Quantitative assessment of Urmia Lake water using spaceborne multisensor data and 3D modeling. *Environmental Monitoring and Assessment*, 189(11), 572.
46. Gholamnia, M., **Alavipanah, S. K.**, Darvishi Bolorani, A., Hamzeh, S., & Kiavarz, M. (2017). Diurnal Air Temperature Modeling Based on the Land Surface Temperature. *Remote Sensing*, 9(9), 915.
47. **Alavipanah, S.K.**, Kiavarz, M., KarimifirozJaei, M., Mijani, N. (2017). Spatio-temporal analysis of urban growth from remote sensing data in Tehran city, Iran. *Journal of natural environment change*. In press.

48. Khandan, R., **Alavipanah, S.K.**, Biazar, A. P., Gharaylou, M. (2017). Analysis of updraft velocity in mesoscale convective systems using satellite and WRF model simulations. *Iranian Journal of Geophysics*. 10, 57- 70.
49. **Alavipanah, S. K.**, Weng, Q., Gholamnia, M., & Khandan, R. (2017). An Analysis of the Discrepancies between MODIS and INSAT-3D LSTs in High Temperatures. *Remote Sensing*, 9(4), 347.
50. **Alavipanah, S.K.**, Damavandi, A.A., Mirzaei, S., Rezaei, A., Hamzeh, S., Matinfar, H.R., Teimouri, H. and Javadzarrin, I. (2016). Remote sensing application in evaluation of soil characteristics in desert areas. *Natural Environment Change*, 2(1),1-24
51. Hamzeh, S., Naseri, A. A., **AlaviPanah, S. K.**, Bartholomeus, H., & Herold, M. (2016). Assessing the accuracy of hyperspectral and multispectral satellite imagery for categorical and Quantitative mapping of salinity stress in sugarcane fields. *International Journal of Applied Earth Observation and Geoinformation*, 52, 412-421.
52. Haashemi S, Weng Q, Darvishi A, **Alavipanah S. K.** 2016. Seasonal Variations of the Surface Urban Heat Island in a Semi-Arid City. *Remote Sensing*, 8(4):352. doi:[10.3390/rs8040352](https://doi.org/10.3390/rs8040352).
53. Montanarella, L., Pennock, D. J., McKenzie, N. J., Badraoui, M., Chude, V., Baptista, I., Mamo, T., Yemefack, M., Singh Aulakh, M., Yagi, K., Young Hong, S., Vijarnsorn, P., Zhang, G.-L., Arrouays, D., Black, H., Krasilnikov, P., Sobocká, J., Alegre, J., Henriquez, C. R., Mendonça-Santos, M. L., Taboada, M., Espinosa-Victoria, D., AlShankiti, A., **AlaviPanah, S. K.**, Elsheikh, E. A. E., Hempel, J., Camps Arbestain, M., Nachtergaele, F., and Vargas, R. 2016. World's soils are under threat. SOLID.
54. Vafakhah, M., Nouri, A., & **Alavipanah, S. K.** (2015). Snowmelt-runoff estimation using radiation SRM model in Taleghan watershed. *Environmental Earth Sciences*, 73(3), 993-1003.
55. Bahrambeigi, B., Raeisi, D., Alavipanah, S., & Moeinzadeh, S. (2015). The estimation of the surface temperature of basalts in gandom beryan-kerman: as one of the earth thermal poles by using thermal infrared images of etm+ sensor. *GEOSCIENCES*, 24(95), 125- 134.
56. Jeihouni, M., Delirhasannia, R., Alavipanah, S. K., Shahabi, M., & Samadianfard, S. (2015). Spatial analysis of groundwater electrical conductivity using ordinary kriging and artificial intelligence methods (Case study: Tabriz plain, Iran). *Geofizika*, 32(2), 192-208.



57. Vahidnia, M. H., Alesheikh, A. A., & **Alavipanah, S.K.** 2015. A multi-agent architecture for geosimulation of moving agents. *Journal of Geographical Systems*. Volume 17, Issue 4, pp 353-390. DOI 10.1007/s10109-015-0218-2
58. Rashidi, M. **Alavipanah, S. K.** 2015. Relation between kidney cancer and Soil leads in Isfahan Province, Iran between 2007 and 2009. *Journal of cancer research and therapeutics*. Available from: <http://www.cancerjournal.net/preprintarticle.asp?id=154936>
59. Jeihouni, M. Toomanian, A. **Alavipanah, S.K.** Shahabi, M. Bazdar, S. (2015): An application of MC-SDSS for water supply management during a drought crisis. *Environmental Monitoring and Assessment*. 187: 1-16. Doi: 10.1007/s10661-015-4643-y.
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## International Congress and Conferences

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2. **Seyed Kazem Alavipanah**, Msr Konyushkova, Saeid Hamzeh, Kakroodi Ata, Ahmad Heidari, Mohammad Karimi Firouzjani. (2019). Characterizing spatial and temporal trends

- of soil and surface properties changes in an area with urban, bare soil, and wetland covers: A 30-year case study in Ghomishan, Iran. Geospatial Conference 2019. Tehran, Iran.
3. Maria Konyushkova, **Seyed Kazem Alavipanah**, Ahmad Heidari, Ivan Semenov (2019). Spatial and seasonal salt redistribution in soils of the recent ecosystems at the coastal plains of the Caspian Sea. INQUA IFG 1709 POCAS Third Plenary Meeting. Tehran, Iran.
  4. Maria Konyushkova, **Seyed Kazem Alavipanah**, Kakroodi Ata, Timofey Chernov, Saeid Hamzeh, Ahmad Heidari, M. Lebedeva, Isa Semenov (2018). A 3-D pattern of soil salinity at the young coastal plains of the Caspian Sea (the case studies in Russia and Iran). 10<sup>th</sup> International Soil Science Congress on "Environment and Soil Resources Conservation. Almaty, Kazakhstan.
  5. **Seyed Kazem Alavipanah**, Jafar Jafarzadeh, Kolsoum Ghazanfari (2018). Soil in Rumi's Thought. 21st Congress of Soil Science. Rio de Janeiro, Brazil.
  6. Saeid Hamzeh, Mohamad Mehrabi, **Seyed Kazem Alavipanah**, Majid Kiavarz Moghaddam (2018). Investigating the Relationship Between Shallow Groundwater, Soil Moisture and Land Surface Temperature Using Remotely Sensed Data. International Geoscience and Remote Sensing Symposium, IGARSS 2018. Valencia, Spain.
  7. **AlaviPanah, S.K.** (2017). Present applications and future potential progress of thermal infrared remote sensing technologies. 3<sup>rd</sup> World Congress on GIS and Remote Sensing September 20-21, 2017 Charlotte, North Carolina, USA.
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14. **AlaviPanah, S.K.** 2016. Remote sensing and GIS based analysis of surface urban heat islands (SUHI) effects on urban air pollution (UAP), in metropolis Tehran, Iran. 4<sup>th</sup> ESA DUE Glob Temperature User Consultation Meeting. 7<sup>th</sup> to 8<sup>th</sup> June 2016. Lisbon, Portugal.
15. Amiraslani, F. Askari, M. Mesgari, M. **Alavipanah, S. K.** 2015. Assessment Of Socio-Economic Aspects Of Desertification In Relation To Farmer Choice Parameters Using An Agent-Based Decision-Making System (Case Study: Segzi Plain, Iran). 3<sup>rd</sup> Unccd Scientific Conference. 9-12 March, Cancun. Mexico.
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18. **Alavipanah, S. K.** 2014. Remote Sensing and Geographic Information Systems and Global Soil Partnership Roles in Soil Monitoring. 20th world congress of soil science. 8-13 june, Jeju, Korea.
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Prof. Dr. Seyed Kazem Alavipanah

### ABSTRACT

Prof. Dr. Seyed Kazem Alavipanah received his Master of Science in both remote sensing and GIS and soil salinity in 1995 from University of Gent, Belgium and University of Tarbiat Modarres, Iran. He received his PhD in soil science (Remote Sensing and GIS) in University of Gent, Belgium, in 1997. Prof. Alavipanah is now the head of department of Remote Sensing and GIS in University of Tehran. He has received about 10 awards and honors and issued 10 books mainly on RS and GIS, on art and humanities, and also published about 250 articles and conducted more than 20 projects. He is member of International Desertnet. He has membership in EARSeL, the committee of planning for natural resources of Iran, in high council for natural disasters of Iran, in national institute of Iranian elites and editorial board in many journals. He is also a member of Intergovernmental Panel on Soils (ITPS), and coordinator of World Soil Report of North East and North Africa, FAO-UN. Prof. Alavipanah now as his main expertise is interested in thermal remote sensing with first book published in this field. He has a good understanding and experience in interdisciplinary studies as well as a suitable knowledge about humanities and physical sciences.