



Alireza Chehreghan



Married



Muslim



23-Sep-1986



Assistant Professor Sahand University of Technology



PhD (GIS) School of Surveying and Geospatial Engineering
University of Tehran



MSc (GIS) School of Surveying and Geospatial Engineering
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BSc (Geomatics) School of Surveying and Geospatial Engineering
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https://www.researchgate.net/profile/Alireza_Chehreghan




<https://scholar.google.com/citations?user=xbYGQa0AAAAJ&hl=en>

Sahand University of Technology
Sahand, East Azerbaijan, Iran




Teaching Experience

-  MSc Computational Intelligence, Location Based Services (LBS), Advanced GIS
-  BSc Advanced Computer Programming, Industrial Drawing, Surveying, Route Surveying, Fundamental of GIS in Civil, Satellite Geodesy, Geodesy I, Geodesy II, Photogrammetry I, Photogrammetry II, Analytical Photogrammetry, Digital Image Processing, Cartography, Geodetic Astronomy

Research Interests

-  Smart City, Location Based Services, PPGIS, VGI, Moving Objects
-  Multi-scale Matching, Computational Geometry, Data Quality
-  Data Mining, Soft Computing

Skills in Computer and Programming

-  Map Server, Oracle, SQL Server, Post GIS, C#.NET, Python, HTML, MATLAB
-  ArcGIS, ENVI, Q GIS, PCI Geomatica, CAD Overlay, Auto CAD, Civil 3D
-  Google Sketch Up, Photoshop, Photo Stich

Publication (Journal Papers)

- 2020**  **Journal of Geospatial Information Technology**
A Framework for Exploring the Frequent Patterns based on Activities Sequence (Persian), Volume 7, Issue 4, Pages 101-114
Amin Hosseinpour, Rahim Ali Abbaspour, **Alireza Chehreghan**
- 2020**  **Journal of Geomatics Science and Technology**
Improvement of the Effective Components in the PDR Positioning Method Based on Detecting the User's Movement Mode Using Smartphone Sensors (Persian), Volume 9, Issue 3, Pages 125-144
Esmaeel Saadatzadeh, Rahim Ali Abbaspour, **Alireza Chehreghan**
- 2019**  **Annals of GIS**
An Evaluation of the Efficiency of Similarity Functions in Density-based Clustering of Spatial Trajectories, Volume 25, Issue 4
Ali Moayedi, Rahim Ali Abbaspour, **Alireza Chehreghan**
- 2019**  **Journal of Geomatics Science and Technology**
Assessment of the Performance of Clustering Algorithms in the Extraction of Similar Trajectories (Persian), Volume 8, Issue 4, Pages 135-149
Ali Moayedi, Rahim Ali Abbaspour, **Alireza Chehreghan**
- 2019**  **Journal of Geospatial Information Technology**
A Geometric Approach to Improve the Quality of voluntary spatial Information Using Data History Case Study: OSM Linear Data (Persian), Volume 7, Issue 2, Pages 177-194
Afsaneh Nasiri, Rahim Ali Abbaspour, **Alireza Chehreghan**
- 2019**  **Geospatial Engineering Journal**
Spatial Data Quality Elements and VGI Linear Data Quality Assessment Methods (Persian), Volume 10, Issue 1, Pages 29-40
Afsaneh Nasiri, Rahim Ali Abbaspour, **Alireza Chehreghan**
- 2018**  **International Journal of Image and Data Fusion**
An Evaluation of Data Completeness of VGI through Geometric Similarity Assessment
Alireza Chehreghan, Rahim Ali Abbaspour
- 2018**  **Cartography and Geographic Information Science (CaGIS)**
A Geometric-based Approach for Road Matching on Multi-scale Datasets using a Genetic Algorithm
Alireza Chehreghan, Rahim Ali Abbaspour
- 2018**  **International Journal of Image and Data Fusion**
An Assessment of the Efficiency of Spatial Distances in Linear Object Matching on Multi-scale, Multi-source Maps
Alireza Chehreghan, Rahim Ali Abbaspour

Publication (Journal Papers)

2018



ISPRS International Journal of Geo-Information

Improving the Quality of Citizen Contributed Geodata Through Their Historical Contributions: the Case of Road Network in OpenStreetMap

Azadeh Nasiri, Rahim Ali Abbaspour, **Alireza Chehreghan**, Jamal Jokar Arsanjani

2018



Transportation Engineering Journal

Assessment of Geometric Similarity of Volunteered Geographic Information in Intra-city Roads Network (Persian), Volume 10, Issue 2, Pages 357-370

Alireza Chehreghan, Rahim Ali Abbaspour

2018



Geocarto International

Assessment the Efficiency of Shape-Based Functions and Descriptors in Multi-Scale Matching of Linear Objects

Rahim Ali Abbaspour, **Alireza Chehreghan**, Amer Karimi

2018



Journal of Geomatics Science and Technology

Matching of Polygon Objects Based on Geometric Measures in a Multi-scale Dataset (Persian), Volume 7, Issue 4, Pages 73-87

Mozhgan Chamani, Rahim Ali Abbaspour, **Alireza Chehreghan**

2018



Journal of Geospatial Information Technology

Assessment of Optimization Algorithms on Multi-scale Matching of Spatial Datasets Based on Geometric Properties (Persian), Volume 6, Issue 2, Pages 105-124

Rahim Ali Abbaspour, **Alireza Chehreghan**

2018



Geospatial Engineering Journal

Comparison of Polygon Matching Methods in Multi-represented Vector Datasets (Persian), Volume 9, Issue 2, Pages 73-84

Mozhgan Chamani, Rahim Ali Abbaspour, **Alireza Chehreghan**

2017



Spatial Information Research

A Method for Similarity Measurement in Spatial Trajectories – Spatial Information Research

Rahim Ali Abbaspour, Mohammad Shaeri, **Alireza Chehreghan**

2017



GIScience & Remote Sensing

A New Descriptor for Improving Geometric-based Matching of Linear Objects on Multi-scale Datasets

Alireza Chehreghan, Rahim Ali Abbaspour

2017




Journal of Geomatics Science and Technology

Improvement of Geometric-Based Roads Matching on Multi-Scale Data Structures (Persian), Volume 6, Issue 3, Pages 89-102

Alireza Chehreghan, Rahim Ali Abbaspour

Publication (Journal Papers)

- 2017**  **Modeling Earth Systems and Environment**
Estimation of Empirical Parameters in Matching of Linear Vector Datasets: An Optimization Approach
Alireza Chehreghan, Rahim Ali Abbaspour
- 2017**  **Geodesy and Cartography**
Matching of Urban Pathways in a Multi-scale Database using Fuzzy Reasoning
Ali Dehghani, Alireza Chehreghan, Rahim Ali Abbaspour
- 2017**  **Journal of the Indian Society of Remote Sensing**
An Improvement on the Clustering of High-resolution Satellite Images Using a Hybrid Algorithm
Alireza Chehreghan, Rahim Ali Abbaspour
- 2017**  **Geocarto International**
An Assessment of Spatial Similarity Degree between Polylines in Multi-Scale, Multi-Source Maps
Alireza Chehreghan, Rahim Ali Abbaspour
- 2016**  **Modeling Earth Systems and Environment**
Uncertainty in Landslide Occurrence Prediction using Dempster-Shafer Theory
Amin Hoseinpour Milaghardan, Mahmoudreza Delavar, Alireza Chehreghan
- 2016**  **Annals of GIS**
An Intelligent Deployment Method of Geo-sensor Networks in 3D Environment
Alireza Chehreghan, Mahmoudreza Delavar, Reza Zarei
- 2014**  **Research Journal of Recent Sciences**
An Information-Based Approach for Douglas-Peucker Thresholding in Polyline Generalizations
Sajad Hassani Pazoky, Mohammad Saadatersesht, Alireza Chehreghan
- 2014**  **American Journal of Engineering Research**
A Comparative Evaluation of Automatic Sampling Methods
Sajad Hassani Pazoky, Mahmoudreza Delavar, Alireza Chehreghan
- 2013**  **Geospatial Engineering Journal**
A Method Based on Artificial Intelligence and Geospatial Information System in Optimum Site Selection (Persian), Volume 4, Issue 4, Pages 35-50
Alireza Chehreghan, Mohammad Ali Rajabi
- 2013**  **International Journal of Scientific & Technology Research**
An Innovative Method for Forest Fire Risk Zoning Map Using FIS and GIS
Mohammadali Rajabi, Aliasghar Alesheykh, Alireza Chehreghan, Hassan Gazmeh

Publication (Journal Papers)

2013



International Journal of Advanced Research in Computer Science and Software Engineering

Developing a Novel Method for Optimum Site Selection Based on Fuzzy Genetic System and GIS

Alireza Chehreghan, Mohammadali Rajabi, Sajad Hassani Pazoky

2013



Geospatial Engineering Journal

Optimum Site Selection in Discrete Space Using Geospatial Information System and Fuzzy Inference System

Alireza Chehreghan, Mohammad Ali Rajabi

2013



Bulletin of Environment, Pharmacology and Life Sciences

Spatio-Temporal Forest Fire Spread Modeling Using Cellular Automata, Honey Bee Foraging, and GIS

Hassan Gazmeh, Aliasghar Alesheykh, Mohammad Karimi, **Alireza Chehreghan**

2013



Geospatial Engineering Journal

Modeling Forest Fire Spread using Cellular Automata, GIS and PSO

Hassan Gazmeh, **Alireza Chehreghan**, Alisghar Alesheykh, Mohammad KARimi

2012



Journal of Geomatics Science and Technology

Optimum Site Selection in Discrete Space using Geospatial Information System and Multi Attribute Decision Making Process

Alireza Chehreghan, Mohammad Ali Rajabi

Publication (Conference Papers)

2020



12th National Congress on Civil Engineering

Indoor Navigation Using Smartphones in Complex Buildings of Smart City

Esmaeel Saadatzadeh, Rahim Ali Abbaspour, **Alireza Chehreghan**

2019



The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences

Pedestrian Dead Reckoning Using Smartphones Sensors: An Efficient Indoor Positioning System in Complex Buildings of Smart Cities. XLII-4-W18,905-912, 1019.

Esmaeel Saadatzadeh, Rahim Ali Abbaspour, **Alireza Chehreghan**

2019



The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences

A Comparison of the Efficiency of Optimization Algorithms in Clustering of Trajectories. XLII-4/W18, 737-740, 2019.

Ali Moayedi; Rahim Ali Abbaspour; **Alireza Chehreghan**

2018



Geomatics & GIT

Assessment of Similarity Functions in Trajectories using Geometric Criteria and Movement Parameters (In Persian)

Ali Moayedi, Rahim Ali Abbaspour, **Alireza Chehreghan**

2018



Geomatics & GIT

a Map Algebra-based Method for Automatic Updating of Polygon Data (In Persian)

Iman Shahmardani, Rahim Ali Abbaspour, **Alirezachehreghan**

2017



The 2nd National Conference on Geo-spatial Information Technology (NCGIT)

Geometric matching of Rivers on Multi-scale Vector Datasets-(In Persian)

Alireza Chehreghan, Rahim Ali Abbaspour

2014



ISPRS & GI Research

NEW Ubiquitous-based Indoor Positioning System with Minimum Extra Hardware Using Smart Phones

Sajad Hassani Pazoky, **Alireza Chehreghan**, Abolghasem Sadeghi Niaraki, Rahim Ali Abbaspour

2012



Geomatics

an Innovative Method for Optimum Site Selection Using Fuzzy Inference System and Geospatial Information System (In Persian)

Alireza Chehreghan, Mohammad Ali Rajabi

2012



Operational Research

Spatial Multi-Objective Problems Solving Based on GA and PSO - In Persian

Mohammad Forghani, **Alireza Chehreghan**, Mohammad Ali Rajabi

Publication (Conference Papers)

2012



Operational Research

Optimum Site Selection of Fire Station Using TOPSIS and GIS

Alireza Chehreghan, Mohammad Ali Rajabi

2008



European Geosciences Union

Calibration of Airborne Laser Scanner

Mohammad Rezaei, Alireza Chehreghan, Amin Gharebaghi