PERSONAL INFORMATION

Samira Hosseini

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Skype Samira Hosseini

Date of birth 21 Sep 1983 | Nationality Iranian

JOB APPLIED FOR

Geomatics, Remote sensing, Computer science

WORK EXPERIENCE

7 Jan 2017–30 Apr 2018

Guest researcher at Caen University

UMR 6143 M2C Morphodynamique Continentale et Côtière, Caen (France)

- Modeling forest structures using Polarimetric Interferometric RADAR
- Code different models using IDL, Matlab
- Using PCI Geomatica, ENVI, ArcGIS, ArcInfo, Arc Map

3 Jul 2012–16 Sep 2013

Geomatics engineer

Tavan Company, Tehran (Iran)

- Planning gas pipe route, funded by Iranian Ministry of Petroleum
- Using ARCGIS software
- Implementing and developing GIS application

4 Jun 2008–7 May 2012

Geomatics Expert

Forests, Range and Watershed Management Organization, Tehran (Iran)

- IKONOS and QuickBird ortho-rectification
- Manager of Land-cover and Land-use map project from IRAN using satellite images
- Providing DTM and DSM from vector maps
- Providing DSM from stereo digital images

8 Jul 2006–19 Mar 2008

Geomatics expert

Tarho naghshe Company, Tehran (Iran)

- Updating Mashhad, Iran Parcel by QuickBird images
- Data processing including data capture, data cleaning, and transformation

24 Sep 2011–16 Jun 2016

Part time teaching at university

- Teaching Surveying, Geodesy at Islamic Azad University South Tehran Branch, Tehran, Iran. From Sep 2015 to June 2016.
- Head of faculty of Geodesy and Geomatics, Aria University of Sciences and sustainability, Tehran, Iran, from Sep.2012 to Jun.2015.
- Teaching Geodesy, astronomical physic at Aria University of Sciences and sustainability, Tehran, Iran, from Sep.2012 to Jun.2015
- Teaching Remote Sensing at Tafresh University, Tafresh, Markazi, Iran. From Sep 2014 to Jun.2015
- Teaching Image Processing at Islamic Azad University of Shahr Rey, Tehran, Iran. From Sep.2013 to Sep.2014
- Teaching Surveying and adjustment at Parsian Institute of Higher Education, Qazvin, Iran. From Sep.2012 to Sep.2013
- Teaching Photogrammetry at Sirjan University of Technology, Kerman, Iran from Sep.2011 to Jun.2012

EDUCATION AND TRAINING

24 Sep 2013–Present

PhD in Geomatics-Remote Sensing

K.N.Toosi University of Technology, Tehran (Iran)

Thesis topic: "Effectiveness of forest species classification on Biomass estimation using PolInSAR"

23 Sep 2008–15 Sep 2011

MSc in Geomatics-Remote Sensing

Tehran University, Tehran (Iran)

Thesis topic: "Extraction of slope, direction and displacement of the geological layers using IRSP5 Satellite stereo images"

23 Sep 2002–23 Nov 2006

B.Sc in Surveying & Geomatics Engineering

Iran University of Science and Technology, Tehran (Iran)

PERSONAL SKILLS

Mother tongue(s): Persian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B1	B1	B1	B1	B1
Arabic	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

Digital skills

- ***GIS Software***: ArcGIS, ArcInfo, Arc Map

- ***Remote Sensing Software***: PCI Geomatica, ERDAS, ENVI, ER Mapper, e-Cognition
- ***Geomatics Software:*** SDR MAP, Land Development Autodesk, Surfer, GPS receiver Software
- ***Design Software***: AutoCAD, Micro-station
- ***Photogrammetric Software:*** Photomode, Paradeyes
- ***Programming Languages:*** MATLAB, Python, Visual C and PCI script
- ***Operating Systems***: Microsoft Windows 98/2000/NT, XP, Vista,7, Linux
- ***Microsoft Office***: Excel, Word, PowerPoint

ADDITIONAL INFORMATION

Conferences

- Effectiveness of Coherence optimization on improvement of height estimation using PolInSAR techniques, S. Hosseini, H. Ebadi, Y. Maghsoudi. The 1st National Conference on Geospatial Information Technology (NCGIT), Tehran, Iran, January2016.
- Three Dimensional landslide mapping with high resolution satellite images using the RPC forward intersection approach, S. Hosseini, A. Azizi, A. Bahroudi, 2nd International Conference on Mapping & Spatial Information (***ICMSI 2012***), Tehran, Iran, May2012.
- Three Dimensional modeling of geological maps with Cartosat1 (IRS P5) satellite images without Ground Control Points, S. Hosseini, A. Azizi, A. Bahroudi, International Conference "GeoMunich 2011: Fragile Earth", Munich (Germany), September 2011.
- Determination of geological structural parameters(Dip and Strike) with Cartosat1(IRS P5) satellite images without GCPs, S. Hosseini, A. Azizi, A. Bahroudi, International *Conference* on Sensors and Models in Photogrammetry and Remote Sensing, Tehran, Iran, May 2011.

Publications

- Pol-InSAR for Forest biomass estimation using Polarization bases Transformation, Samira Hosseini, Hamid Ebadi,Yasser Maghsoudi, Franck Garestier (Under Review).
- Comparison of Forest Structure in L and P band Over Boreal Forest. Samira Hosseini, Franck Garestier, Hamid Ebadi and Yasser Maghsoudi (Under Review).
- Forest height estimation using Multi-baseline Polarimetric SAR Interferometry, Samira Hosseini, Franck Garestier (In preparation).
- Improvement of forest biomass estimation in L and P band using different Polarimetric variables by particle swarm optimization method (Case Study: Swedish boreal forests). S. Hosseini, H. Ebadi, Y. Maghsoudi, Accepted in Journal of Geospatial Information Technology.
- Improvement of Forest Height Estimation using Scattering Matrix Optimization by Altering Polarization Bases (Case Study: Swedish boreal forests), S. Hosseini, H. Ebadi, Y. Maghsoudi. Journal of Geographical Data Vo.26, No.101, spring 2017.
- Effectiveness of Coherence optimization on improvement of height estimation using PolInSAR techniques, Seyede Samira Hosseini, Hamid Ebadi,Yasser Maghsoudi. Journal of Geospatial Information Technology. Vol.4, No.3, autumn 2016.
- An interferometric Coherence optimization method using particle swarm optimization in radar polarimetry for improvement of forest height estimation, Samira Hosseini, Hamid Ebadi,Yasser Maghsoudi. Journal of remote sensing & GIS, Vol.8, No.3, autumn 2016.
- Application of high resolution satellite images IRS P5 to detailed landslide hazard assessment. S. Hosseini, A. Azizi, A. Bahroudi, M.A. Sharifi, Journal Of Geomatics Science and Technology 2013; 2 (4) :31-44.
- Extracting Structural Planar Parameters for spatial geological modeling using high-resolution satellite images(Cartosat1),S. Hosseini, A.Azizi, A.Bahroudi , M.A. Sharifi, Journal Of Geomatics Science and Technology2012 ,Volume : 2 - Issue : 3 - Page:33 -46.

Honours and awards

- Ranked 3rd in PhD entrance examination in Geomatics Engineering at K.N.T University of

technology, Tehran, Iran.

- Ranked 2nd in M.Sc degree in Geomatics Engineering at University of Tehran, Tehran, Iran.
- Ranked 2nd in B.Sc degree in Geomatics Engineering at Iran University of Science& Technology, Tehran, Iran.
- Awarded as the best publication in the 2nd International Conference on Mapping & Spatial Information (***ICMSI 2012***), Tehran, Iran, May 2012.
- Awarded as the best instructor at Aria University of Sciences and sustainability, Tehran, Iran.
- Registered patent: "satellite measurement system of geological structures ", 2012.

Memberships

- Member of Tehran Construction Engineering Organization, Tehran, Iran, 2010-Present.

Presentations

- First National Conference on Geospatial Information Technology (NCGIT), Tehran, Iran, January.2016.
- International Conference and exhibitions on Geomatics, Tehran, Iran, May.2013.
- 2nd International Conference on Mapping & Spatial Information (***ICMSI 2012***), Tehran, Iran, May.2012.
- ISPRS conference, Tehran, Iran, May. 2011.