
Education

- 2007–2010 **Co-tutelle Thesis**, *between Control and Intelligent Processing Center of Excellence, Electrical and Computer Engineering Department, College of Engineering, University of Tehran, Tehran, Iran, and, Image and signal department, GIPSA-lab, CNRS and University of Grenoble, Grenoble, France, Supervisor and co-supervisor of University of Tehran: Prof. Hamid SOLTANIAN-ZADEH and Dr. GH-Ali HOSSEIN-ZADEH, Supervisor and co-supervisor of University of Grenoble: Prof. Christian JUTTEN, and Dr. Sophie ACHARD.*
Title: Development of Differential Connectivity Graph for Characterization of Brain Regions Involved in Epilepsy, defense in University of Tehran on 1/12/2010, and in University of Grenoble on 21/12/2010
- 2004–2007 **Courses and preparations for PhD**, *(courses by exam, qualification exam, and proposal defense)*, Control and Intelligent Processing Center of Excellence, Electrical and Computer Engineering Department, College of Engineering, University of Tehran, Iran, Supervisor : Prof. Hamid SOLTANIAN-ZADEH, co-supervisor: Dr. GH-Ali HOSSEIN-ZADEH.
- 2000–2002 **M.Sc.**, *Control and Intelligent Processing Center of Excellence, Electrical and Computer Engineering Department, College of Engineering, University of Tehran, Iran Major*, Supervisor: Prof. Hamid SOLTANIAN-ZADEH, co-supervisor: Prof. Caro Lucas.
Title: Segmentation of specific brain structures from MRI
- 1995–1999 **B.S.**, *Shahid Beheshti University, Tehran, Iran, Major.*
Supervisor: Prof. Hamid Katoozian

Experience

- 2014-Now **Managing director of Pak Guiah Bio** (www.pakguiah.com)
This brand produces 13 different Organic Professional Medicinal Plants in a biodynamic Farm in Iran: Cultivation, Harvest, Drying, Packaging, Sale, and Exportation.
- 2014-Now Performing more than 100 Exhibitions mostly in Different cities of Iran, mostly in Tehran.
Participating in important Exhibitions like Biofach2018 (Nuremberg, Germany) and Salon Bien-etr et Medicine douce 2020 (Paris, France). Experience of short work in different companies in France producing Medicinal plants, Essential Oil and Hydrosol like Solaur.
Participating in Pharmacognosy, Phytotherapy, Persian Medicines courses in University of Tehran, and Chahed University.
- 1/9/2012 to 31/07/2014 **Post-doc in GIPSA-lab**, *Research project financed by Rhône-Alpes region, between GIPSA-lab and SynapCell.*, This contract is financially managed financially by University of Joseph Fourier, with a full-time.Grenoble, France
- 8/4/2011 to 28/2/2012 **Post-doc in GIPSA-lab**, *Contract SynapCell/GIPSA-lab financially managed by INPG company S.A.*, with a full-time contract of 11 months, Grenoble, France.
- 2009 **Participation in the local comity of organization of MLSP09**, *arrangement, IEEE International Workshop on Machine Learning for Signal Processing, September 2-4 2009, Grenoble, France.*
- 2006 **Member of editorial comity of ISCEE2006**, *for biomedical engineering section, 9th*

Iranian Student Conference on Electrical Engineering, University of Tehran, 4-6 September, 2006.

2005-2006 **Assistant professor**, *Course of pattern recognition*, Replaced by the professor for the period of missions, Designing computer home-works.
University of Tehran, Iran

Since 2001 **Member of IEEE.**

2001–2003 **Research assistant**, *MR image processing*, School of Intelligent Systems, Institute for Studies in Theoretical Physics and Mathematics (IPM) in image processing, Tehran, Iran.

1998 **Service engineer troubleshooting bio-instrumentation Systems**, *Trouble Shooting services of Flame photometer*, A short period internship (2-3 months) in Roentgen Co., Tehran, Iran.

Fields of Interest Before 2014

- Signal Processing: scalp and intracerebral EEG
- Epilepsy: interictal and seizure study
- Connectivity analysis
- Image Processing: MR image segmentation, Deformable Models, Pattern Recognition, fMRI analysis

Fields of Interest Since 2014

- Organic-Biodynamic Agriculture
- Phytotherapy
- Complementary medicine (Persian Medicine)

Languages

Persian
English
French

Native language

Fluent in reading, writing, and speaking

B+, good level in speaking and reading, middle level in writing

Computer skills

Matlab and R
Documentation: Word, OpenOffice and ~~Latex~~
Graphic software: Adobe Photoshop

Interests

Sport swimming, and mountain
Hobby reading, cooking, photography, and gardening

Awards before 2014

- Ranked highest grade among B.S. graduated students (about 60) in 1999
- Ranked highest grade among M.S. graduated students (about 10) in 2002
- Honored as best article in 3rd Iranian Biomed. Eng. Conf., Tehran, Iran in 2003

Awards since 2014

- Organic label of European Organic Agriculture and United States Department of Agriculture by Ceres of Germany since December 2017.
- Best producer of medicinal plants in Feb 2018.
- Best agriculturer of producing medicinal plants in Central Province in Feb 2018.

Personal

- Born on 21 May 1977 at Tehran, Iran
- Married
- Mother of a sixteen-year-old boy, Ali

Publications posterior to the thesis

Articles in the internationale journals

S. Samadi, L. Amini, D. Cosandier-Rim  l  , H. Soltanian-Zadeh, C. Jutten, Reference-Based Source Separation Method For Identification Of Brain Regions Involved In A Reference State From Intracerebral EEG, *IEEE Trans. Biomed. Eng.*, vol. 60, pp. 1983-1992, 2013

Communications in the international conferences

S. Samadi, L. Amini, H. Soltanian-Zadeh, C. Jutten, Identification Of Brain Regions Involved In Epilepsy Using Common Spatial Pattern, *Proc. of IEEE Workshop on Statistical Signal Processing (SSP), Nice, France*, June 28-30, 2011.

Technical report, software, and manual of the software

L. Amini and C. Jutten, Detection of IED Time Intervals from iEEG Recordings of KA-injected Mice, Technical report, GIPSA-lab and SynapCell company, Contract manager: INPG company S.A., 2012.

L. Amini and C. Jutten, Automatic Labelling Software for the Detection of IED Time Intervals from iEEG Recordings of KA-injected Mice, Software using R and MATLAB, GIPSA-lab and SynapCell company, Contract manager: INPG company S.A., 2012.

L. Amini and C. Jutten, Manual of Automatic Labelling Software for the Detection of IED Time Intervals from iEEG Recordings of KA-injected Mice, GIPSA-lab and SynapCell company, Contract manager: INPG company S.A., 2012.

Publications related to the thesis

Articles in the international journals

L. Amini, C. Jutten, S. Achard, O. David, P. Kahane, L. Vercueil, L. Minotti, G. A. Hossein-Zadeh, and H. Soltanian-Zadeh, Comparison Of Five Directed Graph Measures For Identification Of Leading Interictal Epileptic Regions, *Physiological Measurements, Physiol. Meas.*, vol. 31, pp. 1529-1546, 2010.

L. Amini, C. Jutten, S. Achard, O. David, H. Soltanian-Zadeh, G. A. Hossein-Zadeh, P. Kahane, L. Minotti, and L. Vercueil, Directed Differential Connectivity Graph Of Interictal Epileptiform Discharges, *IEEE Trans. Biomed. Eng.*, vol. 58, pp. 884-893, 2011.

Communications in the international conferences

L. Amini, R. Sameni, C. Jutten, G. A. Hossein-Zadeh, and H. Soltanian-Zadeh, MR Artifact Reduction in the Simultaneous Acquisition of EEG and fMRI of Epileptic Patients, *Proc. of 16th European Signal Processing Conference (EUSIPCO), Lausanne, Switzerland*, August 25-29, 2008.

L. Amini, S. Achard, C. Jutten, G.A. Hossein-Zadeh, and H. Soltanian-Zadeh, Connectivity Analysis of EEG Recordings for Epileptic Patients, *The 10th International Conference On Cognitive Neuroscience (ICON X), Bodrum, Turkey*, September 1-5, 2008.

L. Amini, S. Achard, C. Jutten, H. Soltanian-Zadeh, G. A. Hossein-Zadeh, O. David, and L. Vercueil, Sparse Differential Connectivity Graph of Scalp EEG for Epileptic Patients, *Proc. of the 17th European Symposium on Artificial Neural Networks (ESANN), Bruges, Belgium*, April 22-24, 2009.

L. Amini, C. Jutten, S. Achard, O. David, H. Soltanian-Zadeh, G. A. Hossein-Zadeh, P. Kahane, L. Minotti, and L. Vercueil, Directed Epileptic Network From Scalp And Intracranial EEG Of Epileptic Patients, *Proc. of the IEEE International Workshop On Machine Learning For Signal Processing (MLSP), Grenoble, France*, September 2-4, 2009.

Publications prior to the thesis

Articles in the international journals

L. Amini, H. Soltanian-Zadeh, C. Lucas, and M. Gity, Automatic Segmentation Of Thalamus From Brain MRI Integrating Fuzzy Clustering And Dynamic Contours, *IEEE Trans. Biomed. Eng.*, vol. 51, pp. 800-811, 2004.

Articles in the national journals

L. Amini, H. Soltanian-Zadeh, C. Lucas, and M. Gity, Segmentation Of Mid-Brain Structures Based On Active Contours, *Journal of ISBME*, vol. 2, pp. 17-34, 2006.

Communications in the international conferences

L. Amini, H. Soltanian-Zadeh, and C. Lucas, Segmentation Of Specific Brain Structures From MRI, *Proc. of the International Conf. on Diag. Imag. and Anal., Shanghai, China*, 2002.

L. Amini, H. Soltanian-Zadeh, and C. Lucas, Automated Segmentation Of Brain Structures From MRI, *Proc. of the International Society for Magnetic Resonance in Medicine, Eleventh Scientific Meeting & Exhibition, Toronto, Canada*, 2003.

L. Amini, H. Soltanian-Zadeh, E. Fatemi-Zadeh, and G.A. Hossein-Zadeh, Automatic Landmark Generation For Nonlinear Registration Of Anatomical And Functional Brain MRI, *Proc. of Cairo International*

Biomedical Engineering Conference (CIBEC), Cairo, Egypt, 2006.

National conferences

L. Amini, and C. Lucas, Segmentation of Thalamus from MRI, *Proc. of 4th Iranian Industrial Intelligent System, Khaje Nasir University, Tehran, Iran, 2002.*

L. Amini, and H. Soltanian-Zadeh, Studying Brain Structures From MRI, *Proc. of the 3rd Iranian Biomed. Eng. Conf., Tehran, Iran, 2002.*

L. Amini, H. Soltanian-Zadeh, and C. Lucas, Computer Vision Segmentation Of Brain Structures From MRI Based On Deformable Contour Models, *Proc. of the 2nd Iranian Conf. on Machine Vision & Image Processing, Tehran, Iran, 2003.*

L. Amini, H. Soltanian-Zadeh, and C. Lucas, Segmentation Of Red Nucleus From MRI Based On Dynamic Models, *Proc. of the 3rd Iranian Conference on Machine Vision and Image Processing, Tehran, Iran, 2005.*