



**Saeed Mozaffari**  
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**WORK EXPERIENCE:**

- Jul 2016- Aug 2016: Visiting scientist, IfN, Technical University of Braunschweig, Germany.
    - Developing semantic segmentation for self-driving cars
  - 2007- Present: Faculty member in Electrical and Computer Engineering Department at Semnan University, Semnan, Iran.
    - Conducting research in Computer Vision, Deep learning, pattern Recognition
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**EDUCATION:**

- 2001-2007: **PhD**, Electrical Engineering  
Amirkabir University of Technology, Tehran, Iran.  
Dissertation: [Offline recognition of handwritten city names](#)  
Advisor: Prof. Karim Faez
- 2006-2007: **Visiting Student**, Electrical Engineering  
Technical University of Braunschweig, Germany.  
Supervisor: Dr. Volker Maergner
- 1999-2001: **M.Sc.** Electrical Engineering  
Amirkabir University of Technology, Tehran, Iran.  
Thesis: [Layout Design and simulation of an integrated optical receiver with CMOS technology](#)  
Advisor: Dr. Hassan Katuzian
- 1995-1999: **B.Sc.** Electrical Engineering.  
Amirkabir University of Technology, Tehran, Iran.  
Project: [Design and implementation of TV bigscreen system](#)  
Advisor: Amir Kashi

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## RESEARCH INTERESTS:

- Pattern Recognition
- Image Processing
- Computer Vision
- Machine Learning
- Deep Learning

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## SCHOLARSHIPS:

- 2001-2005: Ph.D. scholarship from Iranian Ministry of Science, Research and Technology.
- 2006-2007: research scholarship from Technical University of Braunschweig, Germany.

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## TEACHING EXPERIENCE:

- **Semnan University**, ECE Department, Semnan Iran
  - Deep Learning (graduate course)
  - Image Processing (graduate course)
  - Computer Vision (graduate course)
  - Statistical Pattern Recognition (graduate course)
  - Electronics (undergraduate course)
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- **Azad University of Qazvin**, ECE Department, Qazvin, Iran
  - Neural Networks (graduate course)
  - Evolutionary Computing (graduate course)
  - Statistical Pattern Recognition (graduate course)
- **Parseh graduate Institute**, ECE Department, Tehran, Iran
  - Technical English

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## PROGRAMMING LANGUAGE:

- MATLAB
- Python
- C/C++

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## TECHNICAL SKILLS:

- Deep learning frameworks (Caffe, Tensorflow)
- Computer vision tool (OpenCV)
- MATLAB Toolbox (Image/Signal Processing, Genetic Algorithms, Neural Networks, Statistical pattern Recognition).
- Microsoft Office and LaTeX.

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## LANGUAGES:

- Persian (Farsi): Fluent (mother tongue)
- English: Fluent
- German: Intermediate (B1)
- French: Beginner (A1)

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## STUDENTS SUPERVISION

Supervision of 5 Ph.D. thesis, ECE Dep, Semnan University, 2015.

Supervision of 40 MSc thesis, ECE Dep, Semnan University.

Supervision of more than 30 BS final projects, ECE Dep, Semnan University.

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## INVITED TALKS:

- “ [Urban scene semantic segmentation with deep neural networks](#)“ IfN TU Braunschweig, Germany, 2016.
- “[Farsi OCR on the web: chalanges and solutions](#)“, Supreme Concile of Information and Communication Technology, Iran, 2008.
- “[Handwritten digits and characters recognition for postal automation](#)“, Siemens Company, Germany, 2006.
- “[Handwritten words recognition with HMM](#)“, IfN TU Braunschweig, Germany, 2006.

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## PUBLICATIONS:

### Books and Book Chapters:

- 1- Saeed Mozaffari, “ [Application of Fractal Theory in Farsi/Arabic Document Analysis](#)“, Guide to OCR for Arabic Scripts, V.Maergner and H.El Abed (Eds), ISBN: 978-1-4471-4071-9, Springer-Verlag, Germany, pp.315-333, 2012.
- 2- Saeed Mozaffari and Karim Faez, “ [Handwritten online and offline large datasets for Farsi document recognition](#)“, bulletin of Farsi OCR, ISBN:978-964-88-46-14-0, 2009 (in Farsi).
- 3- Saeed Mozaffari, “ [Technical English for IT and Computer Engineers](#)“, ISBN:978-600-5000-48-1, 2010.
- 4- Saeed Mozaffari, “ [Technical English for Electrical Engineers](#)“, ISBN:978-600-5000-47-4, 2010.
- 5- Saeed Mozaffari, Karim Faez, and Volker Maergner " [Application of Fractal Theory for On-line and Off-line Farsi Digit Recognition](#)", Machine learning and data mining in pattern recognition, Lecture Notes in Computer Science, Vol 4571, DOI: 10.1007/978-3-540-73499-4, 2007.

### **Selected Journal Papers:**

- 1- Motahareh Taheri, Saeed Mozaffari and Parviz Keshavarzi, " [Face authentication in encrypted domain based on correlation filters](#)", Multimedia Tools and Applications (**MTA**), 77 (13), pp.17043-17067, 2018.
- 2- Reza Tavoli, Mohammad Reza Keyvanpour and Saeed Mozaffari, " [Statistical geometric components of straight lines \(SGCSL\) feature extraction method for offline Arabic/Persian handwritten words recognition](#)", IET Image Processing, 2018.
- 3- Saeed Mozaffari, " [Parallel image encryption with bitplane decomposition and genetic algorithm](#)", Multimedia Tools and Applications (**MTA**), pp. 1-21, 2018.
- 4- Hossein Moeini Saeed Mozaffari, " [Gender dictionary learning for gender classification](#)", Journal of Visual Communication and Image Representation Vol 42, pp.1-13, 2016.
- 5- Motahareh Taheri and Saeed Mozaffari, " [Cancelable Face Verification system using Optical Encryption and Authentication method](#)", Journal of Optical Society of America (**OSA**) A, Vol 32, No 10, pp.1772-1779, Oct, 2015.
- 6- Reza Davarzani, Saeed Mozaffari and Khashayar Yaghmaie, " [Scale- and Rotation-Invariant Texture Description with Improved Local Binary Pattern Features](#)", Signal Processing (**SP**), Volume 111, pp. 274–293, June 2015,
- 7- Reza Davarzani, Saeed Mozaffari and Khashayar Yaghmaie, " [Perceptual Image Hashing using Center-Symmetric Local Binary Patterns](#)", Multimedia Tools and Applications (**MTA**), March 2015.
- 8- Akram-sadad Hajian Nejad and Saeed Mozaffari, " [Font Discrimination Using Fractal Dimensions](#)", Iranian Journal Of Electrical & Electronic Engineering (**IJEEE**), Vol.10, No.3, pp. 176-187, Sep 2014.
- 9- Fatemeh Daraee and Saeed Mozaffari, " [Watermarking in binary document images using fractal coding](#)", Special Issue on Frontiers in Handwritten Processing, Journal of Pattern Recognition Letters (**PRL**), 35, pp.120-129, 2014.
- 10- Reza Davarzani, Khashayar Yaghmaie, Saeed Mozaffari and Meysam Tapak, " [Copy-move forgery detection using multiresolution local binary patterns](#)", Forensic Science International (**FSI**), 231(1-3), pp.61-72, 2013.
- 11- Motahareh Taheri and Saeed Mozaffari, " [Phase mask generation for DRPE method using Chaos theory and Hash function](#)", Elsevier, **OPTIK**, (124 (16), pp. 2363–2367, 2013.
- 12- Modiedin Moradi and Saeed Mozaffari, " [A hybrid approach for Farsi/Arabic text detection and localization in video frames](#)", **IET** Image Processing, 7(2), pp.154-64, 2013.
- 13- Mohamadreza Maddah and Saeed Mozaffari, " [Face verification using local binary pattern unconstrained minimum average correlation energy](#)

[correlation filters](#)", Journal of Optical Society of America A (**OSA**), 29 (8) pp.1717-1721, 2012.

- 14- Rohollah Akbari and Saeed Mozaffari, " [Gender Estimation using Single Exemplar of Frontal Facial Image per Person](#)", International Journal of Advanced Science and Technology, pp. 1-18, Vol. 40, March, 2012.
- 15- Rohollah Akbari and Saeed Mozaffari, " [Fuzzy Moments Method for Face Recognition in an Ethnic Database](#)", International Journal of Signal Processing, Image Processing and Pattern Recognition, pp. 85-98, Vol. 5, No. 1, March, 2012.
- 16- Keyvan Jaferzadeh, Korush Kiani and Saeed Mozaffari, " [Acceleration of Fractal Image Compression Using Fuzzy Clustering and DCT Based Metric](#)", **IET** Image Processing, pp. 1024-1030, 2012.
- 17- Saeed Mozaffari, Karim Faez, Volker Maergner and Heikal El-Abed, " [Two-Stage Lexicon Reduction for Off-line Arabic Handwritten word Recognition](#)", International Journal of Pattern Recognition and Artificial Intelligent (**IJPRAI**) 22 (7), pp.1323-1341, 2008.
- 18- Saeed Mozaffari and Karim Faez, Volker Maergner and Heikal El-Abed, " [Lexicon Reduction Using Dots for Off-line Farsi/Arabic Handwritten Word Recognition](#)" Journal of Pattern Recognition Letters (**PRL**), 29 (6), pp. 724-734, 2008.

And more than 10 other journal papers.

#### **Selected Conference Papers:**

- 1- R.Davarzani and S. Mozaffari, " [Robust Image Description with Weighted and Adaptive Local Binary Pattern Features](#)", **IEEE** Int. Conference of Pattern Recognition (ICPR), pp. 1097 – 1102, Aug, 2014.
- 2- H. Moeini, A.Moeini, saeed mozaffari, " [Makeup-Invariant Face Recognition by combination of Local Binary Pattern and Dual-Tree Complex Wavelet Transform from Women's Images](#)", 7th International Symposium on Telecommunication (IST), Published by **IEEE**, pp.497-501, 2014.
- 3- AR Ghods, S Mozaffari, F Ahmadpanahi, " [Document image dewarping using Kinect depth sensor](#)", Iranian Conference on Electrical Engineering (ICEE), Published by **IEEE**, pp. 1-6, 2013.
- 4- Saeed Mozaffari and Parnia Bahar, " [Farsi/Arabic handwritten from machine-printed words discrimination](#)", International Corkshop on Frontiers in Handwriting Recognition (**ICFHR**), pp. 694-699, 2012.
- 5- Saeed Mozaffari and Hamid Behravan, " [Twins facial similarity impact on conventional face recognition systems](#)", Iranian Conference on Electrical Engineering (ICEE), Published by **IEEE**, pp. 1-6, 2011.
- 6- Mazaheri and Saeed Mozaffari, " [Real time adaptive background estimation and road segmentation for vehicle classification](#)", Iranian Conference on Electrical Engineering (ICEE), Published by **IEEE**, pp. 1-6, 2011.

- 7- Saeed Mozaffari, Hamid Behravan, Rohollah Akbari, " [Gender Classification Using Single Frontal Image Per Person: Combination of Appearance and Geometric Based Features](#)", IEEE International Conference on Pattern Recognition (**ICPR**), pp.1192-1195, 2010.
- 8- Farshid Allahverdi, Karim Faez and Saeed Mozaffari, " [Fast image transmission and resolution enhancement based on SR and NLM methods](#)", International Conference on Information Retrieval & Knowledge Management, (CAMP), Published by **IEEE**, pp.61-66, 2010.
- 9- Farshid Allahverdi, Karim Faez and Saeed Mozaffari, " [Resolution enhancement through ROI selection method](#)", Asia-Pacific Conference on Computational Intelligence and Industrial Applications (PACIIA), Published by **IEEE**, pp. 389 – 392, 2009.
- 10-Ali Abedi, Karim Faez and Saeed Mozaffari, " [Detecting and recognizing numerical strings in Farsi document images](#)", International Conference on Image and Vision Computing New Zealand (IVCNZ), Published by **IEEE**, pp. 403-408, 2009.
- 11-Jamal Saeedi, Reza Safabakhs and Saeed Mozaffari, " [Document image segmentation using fuzzy classifier and the dual-tree DWT](#)", International CSI Computer Conference (CSICC), Published by **IEEE**, pp. 385-391, 2009.
- 12-Jamal Saeedi, Karim Faez, Saeed Mozaffari, " [Multi-focus Image Fusion Based on Fuzzy and Wavelet Transform](#)". Iberoamerican Congress on Pattern Recognition (CIARP), Published by **IEEE**, pp.970-977,2009.
- 13-Saeed Mozaffari, Hadi Soltanizadeh, " [ICDAR 2009 Handwritten Farsi/Arabic Character Recognition Competition](#)", **IEEE** International Conference on Document Analysis and Recognition (**ICDAR**), pp. 1413-1417, 2009.
- 14-Saeed Mozaffari, Karim Faez, Volker Märgner, Haikal El Abed, " [Strategies for Large Handwritten Farsi/Arabic Lexicon Reduction](#)". **IEEE** International Conference on Document Analysis and Recognition (**ICDAR**), pp. 98-102, 2007.
- 15-Saeed Mozaffari, Karim Faez, Farhad Faradji, Majid Ziaratban and S.Mohamad Golzan " [A Comprehensive Isolated Farsi/Arabic Character Database for Handwritten OCR Research](#)" International Workshop on Frontiers in Handwriting Recognition (**IWFHR**), 2006.
- 16-Saeed Mozaffari, Karim Faez and Farhad Faradji " [One Dimensional Fractal Coder for Online Signature Recognition](#)" 18th **IEEE** International Conference on Pattern Recognition (**ICPR**), pp. 857 – 860, 2006.
- 17-Saeed Mozaffari, Karim Faez and Farhad Faraji, " [Graylevel texture classification using Fractal theory](#)", Iranian Conference on Electrical Engineering (ICEE), 2006.
- 18-Saeed Mozaffari, Karim Faez and Majid Ziaratban, " [Character Representation and Recognition Using Quadtree-based Fractal Encoding](#)

[Scheme](#)" **IEEE** International Conference on Document Analysis and Recognition (**ICDAR**), pp.819-823, 2005.

- 19-Saeed Mozaffari, Karim Faez and Majid Ziaratban," [Structural Decomposition and Statistical Description of Farsi/Arabic Handwritten Numeric Characters](#)", **IEEE** International Conference on Document Analysis and Recognition (**ICDAR**), pp.237-241, 2005.
- 20-Saeed Mozaffari, Karim Faez and Majid Ziyaratban," [A Hybrid Structural /Statistical Classifier for Handwritten Farsi/Arabic Numeral Recognition](#)", **IAPR** Conference on Machine Vision Applications (MVA), pp.218-221, 2005.
- 21-Hamidreza Rashidy Kanan, Karim Faez, Saeed Mozaffari and Mehdi Ezoji,"[Face Localization Using Shape Information and Genetic Algorithms](#)", First International Conference on Modeling, Simulation and Applied Optimization (ICMSAO), 2005.
- 22-Hamidreza Rashidy Kanan, Karim Faez and Saeed Mozaffari,"[Wave Height Prediction Using Cascade Correlation Neural Network](#)", 2nd **IEEE** GCC 2004 Conference, pp377-380, 2004.
- 23- Saeed Mozaffari, Karim Faez and Hamidreza Rashidy Kanan. "[Feature Comparison between Fractal Codes and Wavelet Transform in Handwritten Alphanumeric Recognition Using SVM Classifier](#)", 17th **IEEE** International Conference on Pattern Recognition (**ICPR**), Volume 2, pp.331-334, 2004.
- 24-Saeed Mozaffari, Karim Faez and Hamidreza Rashidy Kanan. "[Recognition of Isolated Handwritten Farsi/Arabic Alphanumeric Using Fractal Codes](#)", **IEEE** Proceeding of Southwest Symposium on Image Analysis and Interpretation (SSIAI), pp. 104-108, 2004.

And more than 20 other conference papers.

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## REVIEWER for JOURNALS:

- Pattern Recognition
- Pattern Recognition Letters
- IET Image Processing
- Int. Journal of Pattern Recognition and Artificial Intelligence
- Int. Journal of Document Analysis and Recognition
- IEEE Transactions on Neural Networks

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## REFERENCES:

- [Prof. K.Faez](#) (my PhD supervisor)  
ECE Dep, Amirkabir University, [kfaez@aut.ac.ir](mailto:kfaez@aut.ac.ir)

- [Dr. V.Maergner](#) (my sabbatical leave's supervisor)  
IfN, TU Braunschweig, Germany, [maergner@ifn.ing.tu-bs.de](mailto:maergner@ifn.ing.tu-bs.de)
- [Prof. T.Fingscheidt](#) (my host of Post-Doc internship)  
IfN, TU Braunschweig, Germany,  
[fingscheidt@ifn.ing.tu-bs.de](mailto:fingscheidt@ifn.ing.tu-bs.de), Tel:+49 (0) 531 391 -2485