

Abbas Zohrevand

School of Electrical and Computer Engineering, University College of Engineering, University of Tehran, North Kargar st., Tehran, Iran.

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EDUCATION

University of Tehran, Tehran, Iran

- Ph.D. in Computer Engineering(Artificial Intelligence) Sep 2021 – present
 - Supervisor: Dr. Reshad Hosseini, Prof. Hadi Moradi
 - Cumulative GPA: 3.8 / 4.0
 - Focus: Machine Learning, Computer Vision, Time series analysis.

Shahrood University of Technology, Shahrood, Semnan, Iran

- M.S. in Computer Engineering(Artificial Intelligence) Sep 2011 – Feb 2014
 - Thesis : Recognition and localization of objects in complex scenes
 - Supervisor: Dr. Alireza Ahmadyfard
 - Cumulative GPA: 3.7 / 4.0
 - Focus: Machine Learning, Computer Vision, Scene Understanding, Object Recognition.

University of Birjand, Birjand, Southern Khorasan, Iran

- B.S. in Computer Engineering Sep 2006 – Feb 2011
 - Cumulative GPA: 3.5 / 4.0
 - Thesis : Persian handwritten digit recognition using gradient features
 - Supervisor: Dr. Javad Sadri

RESEARCH INTERESTS

Machine Learning, Computer Vision, Deep Learning.

WORK EXPERIENCE

Kosar University of Bojnord, Computer Engineering Department

- Faculty Member – Instructor Feb 2017 –present
 - Courses Taught: Artificial Intelligence, Algorithm Design, Discrete Mathematics, Advance programing, Data structure, Operating system, Theory of computation.

Kosar University of Bojnord, Computer Engineering Department

- Guest Lecturer Sep 2014– Feb 2017
 - Courses Taught: Artificial Intelligence, Algorithm Design, Discrete Mathematics, Advance programing, Data structure.

University of Bojnord, Computer Engineering Department

- Guest Lecturer Sep 2014–present
 - Courses Taught: Artificial Intelligence, Algorithm design, Discrete mathematics, Advance programing, Data structure.

PUBLICATIONS

BOOKS

- [1] [A. Zohrevand](#), “Introduction to data structure – in Persian,” *Bojnord Ubiversity*, [Under review](#).
- [2] [A. Zohrevand](#), M. Sattari, J. Sadri, Z. Imani, C.Y.. Suen, C. Djeddi “Comparison of Persian Handwritten Digit Recognition in Three Color Modalities Using Deep Neural Networks,” in *In: Lu, Y., Vincent, N., Yuen, P.C., Zheng, WS., Cheriet, F., Suen, C.Y. (eds) Pattern Recognition and Artificial Intelligence. ICPRAI 2020. Lecture Notes in Computer Science*, ISBN–978-3-030-59829-7, Oct 2020.
- [3] [A. Zohrevand](#), N. Samadiani, “C++ programmning made easy – in Persian,” *Tehran Institute of Technology*, ISBN–978-600-124-985-3, Jan 2018.
- [4] [A. Zohrevand](#), H. Mafakheri “Leran L^AT_EX step by step – in Persian ,” *Tehran Institute of Technology*, ISBN–978-622-218-061-4, Feb 2018.

PUBLICATIONS

JOURNALS

- [1] [A. Zohrevand](#), J. Sadri, Z. Imani, “A comprehensive Persian offline handwritten database for investigating the effects of heritability and family relationships on handwriting,” *International Journal of Pattern Recognition and Artificial Intelligence – JCR-Q4*, [Under review](#).

- [2] [A. Zohrevand](#), Z. Imani, J. Sadri, C.Y. Suen, “Does color modalities affect handwriting recognition? An empirical study on Persian handwritings using convolutional neural networks,” *International Journal of Wavelets, Multiresolution and Information Processing* – [arXiv:2307.12150v1](#).
- [3] [A. Zohrevand](#), Z. Imani, “Holistic Persian Handwritten Word Recognition Using Convolutional Neural Network,” *International Journal of Engineering– JCR-Q2*, vol. 34, no. 8, pp. 2028–2037, Aug 2021.
- [4] [A. Zohrevand](#), Z. Imani, M. Ezoji “Deep Convolutional Neural Network for Finger-knuckle-print Recognition,” *International Journal of Engineering – JCR-Q2*, vol. 34, no. 7, pp. 1684–1693, Jul 2021.
- [5] [A. Zohrevand](#), “Probabilistic Relaxation Labeling: A Short Survey on Object Recognition,” *International Journal of Computer Applications*, vol. 181, no. 38, pp. 40–44, Jan 2019.
- [6] Z. Imani, A. Ahmadyfard, and [A. Zohrevand](#), “Holistic Farsi handwritten word recognition using gradient features,” *Journal of AI and Data Mining– ISC*, vol. 4, no. 1, pp. 19–25, Feb 2016.

CONFERENCES

- [1] Y. Riyazi, SM. Sadjadi, [A. Zohrevand](#), R. Hosseini, “High-Resolution Remote Sensing Image Captioning Based on Structured Attention and SAM Network,” in *Proceedings of 32nd International Conference on Electrical Engineering (ICEE)*, Ahvaz, Iran, May 2024.
- [1] [A. Zohrevand](#), Z. Imani “An Empirical Study of the Performance of Different Optimizers in the Deep Neural Networks,” in *Proceedings of 12th Iranian and the second International Conference on Machine Vision and Image Processing*, Ahvaz, Iran, Feb 2022.
- [2] [A. Zohrevand](#), J. Sadri, Z. Imani, M.R. Yeganezad “Line Segmentation in Persian Handwritten Documents Based on a Novel Projection Histogram Method,” in *Proceedings of 4th International Conference on Pattern Recognition and Image Analysis*, Tehran, Iran, Mar 2019.
- [3] V. Kiani, [A. Zohrevand](#), “A Fuzzy Directional Median Filter for Fixed-value Impulse Noise Removal,” in *Proceedings of 7th Iranian Joint Congress on Fuzzy and Intelligent Systems*, Bojourn, North Khorasan, Iran, Jan 2019.
- [4] [A. Zohrevand](#), A. Ahmadyfard, A.A. Pouyan and Z. Imani, “A SIFT based object recognition using contextual information,” in *Proceedings of Iranian Conference on Intelligent Systems*, Bam, Kerman, Iran, Jan 2014.
- [5] Z. Imani, A. Ahmadyfard, M. Alipour and [A. Zohrevand](#), “Offline handwritten Farsi cursive text recognition using hidden Markov models,” in *Proceedings 8th Iranian Conference on Machine Vision and Image Processing*, Zanjan, Iran, Sep 2013.
- [6] Z. Imani, A. Ahmadyfard and [A. Zohrevand](#), “Introduction to Database FARSA: digital images of handwritten Farsi words,” in *Proceedings 11th Iranian Conference on Intelligent Systems*, Tehran, Iran, Mar 2013.

LANGUAGES

- Persian: Native language.
- English: Fluent (Reading, Writing).

SKILLS

- Programming Languages: Pascal, Delphi, C, C++, Python, Java
- Scientific Software: MATLAB, PyCharm
- Scientific Libraries: PyTorch, Keras
- Scientific Writing Software: \LaTeX , \LaTeX , \LaTeX , Microsoft Office Family.

PERSONAL INTERESTS

Mountaineering, swimming, Riding bike.

REFERENCES

- **Dr. Reshad Hosseini**
Assistant Professor, Machine Learning and Robotics Group, University of Tehran
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▪ **Dr. Alireza Ahmadyfard**

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