

**INFORMAZIONI PERSONALI** **Zahra Ziran**

**ESPERIENZA PROFESSIONALE**

September 2023 – Present

**Research Fellow**

Sapienza University of Rome (DIAE)

Machine learning methods and techniques for intelligent sensorized environments also through deep learning

[ING-INF/05](#)

July 2020 – August 2023

**Research Fellow**

Sapienza University of Rome

In the context of the NOTAE Project, working on the graphic symbols recognition in documentary records with Machine Learning/Reinforcement learning, as a historical phenomenon from Late Antiquity to early medieval Europe.

[ING-INF/05](#)

December 2019 - April 2020

**Research Fellow**

Università degli Studi di Firenze

Pre-operational development of indexes for the monitoring of drawing applicable to global scale with Python and statistical solution.

[ING-INF/05](#)

**ISTRUZIONE E FORMAZIONE**

November 2016 - February 2020

**PhD in Computer Engineering**

Università degli Studi di Firenze

Deep learning-based object detection models applied to document images

February 2011 – October 2012

**MSc in Information Technology Engineering**

University of Guilan, Rasht, Iran

Forecasting Undesirable Weather Conditions Using Data Mining Technique

September 2004 – December 2008

**BSc in Computer Engineering (Hardware Branch)**

Azad University (Qazvin Branch), Qazvin, Iran

Control of a stepper motor’s direction of rotation using AVR Microcontroller

**COMPETENZE PERSONALI**

Lingua madre Persian

Altre lingue

	COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
	Ascolto	Lettura	Interazione	Produzione orale	
English	B2	B2	B2	B2	B2

Patente di guida B

**ULTERIORI INFORMAZIONI**

## Pubblicazioni

- Z.Ziran, F.Leotta, M.Mecella. A simplified and sustainable approach for energy prediction, accepted in the Proc of 20th International Conference on Intelligent Environments, 2024.
- Z.Ziran, A.Ghignoli, F.Leotta, M.Mecella. Image processing and semantic technologies in digital humanities: The NOTAE experience, in the Proc. of From Digital to Distant Diplomats (DiDiP2022), Graz, Austria, 28-30 September 2022. Accepted.
- Z.Ziran, F.Leotta, M.Mecella, A.Ghignoli. Image processing and semantic technologies in digital humanities: The NOTAE experience, in the Proc. of From Digital to Distant Diplomats (DiDiP2022), Graz, Austria, 28-30 September 2022.
- E.Bernasconi, M.Boccuzzi, L.Biasco, T.Catarci, A.Ghignoli, F.Leotta, M.Mecella, A.Monte,

- N.Sietis, S.Veneruso,Z.Ziran."NOTAE: NOT A writtEn word but graphic symbols.". 16th RCIS Workshops, Barcelona, Spain, May 17-20, 2022
- Z.Ziran, E.Bernasconi, A.Ghignoli, F.Leotta, M.Mecella. "Accurate Graphic Symbol Detection in Ancient Document Digital Reproductions". Document Analysis and Recognition, ICDAR 2021 Workshops, Lausanne, Switzerland, September 5-10, 2021
  - E.Bernasconi, M.Boccuzzi, T.Catarci, M.Ceriani, A.Ghignoli, F.Leotta, M.Mecella, A. Monte, N.Sietis, S.Veneruso, Z.Ziran. "Exploring the Historical Context of Graphic Symbols: the NOTAE Knowledge Graph and its Visual Interface", Italian Research Conference on Digital Libraries (IRCDL,Padova, Italy, February 18-19, 2021)
  - Z.Ziran, X.Pic, S.Undri Innocenti, D.Mugnai, S.Marinai. "Text alignment in early printed books combining deep learning and dynamic programming", Elsevier, Pattern Recognition Letters,Volume 133, May 2020, Pages 109-115
  - Simone Marinai, Samuele Capobianco, Zahra Ziran, Andrea Giuntini and Pierluigi Mansueto. "Recognition of Concordances for Indexing in Digital Libraries", Italian Research Conference on Digital Libraries, Digital Libraries: The Era of Big Data and Data Science pp 135–147 (IRCDL, Bari, Italy January 30-31 2020)
  - J.Ravagli, Z.Ziran, S.Marinai. "Text Recognition and Classification in Floor plan Images", 13th IAPR International Workshop on Graphics Recognition, Sydney, Australia, September 22-25, 2019 2018 Z.Ziran, S. Marinai, "Object Detection in Floor Plan Images", In book: Artificial Neural Networks in Pattern Recognition, (ANNPR 2018), pp. 383-394 , Siena, Italy, September 19-21, 2018
  - Z. Ziran, M. Mahdavi., "Application of data mining on ECRM to examine the effective parameters and its usefulness in B2C E-commerce," in the Proc. of 7th Iran Data Mining Conference (IDMC 2014), Tehran, Iran, December 2-4, 2014
  - S. Mosammami, Z. Ziran, M.Moradi, A. Shahbahrami., "E-Consumer Behavior Verification in Business to Consumer E-Commerce using Data Mining Technique," in the 1st International Conference on New Directions in Business, Management, Finance and Economics, Famagusta, North Cyprus, September 12-14, 2013