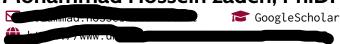
# Mohammad Hossein zadeh, Ph.D.







## **Employment History**

2022 – ongoing **Teacher Assistant** University of Bologna.

2013 – 2015 **Teacher Assistant** Babol University of Nooshirvani (NIT).

# **Education**

Ph.D., University of Bologna in Telecommunications Engineering
Thesis title: Channel Modelling by Machine Learning

M.Sc., University of Bologna in Telecommunications Engineering
Thesis title: Physical Layer Security in Rician Channels.

Reasearcher, Amirkabir University of Technology in Electrical Engineering
Thesis title: Energy Efficiency Management - Emotional State Recognition.

B.Sc., Amirkabir University of Technology in Electrical Engineering
Thesis title: Simulation and Analysis of Autonomous Stair Climbing for Tracked Vehicle.

### **Research Publications**

### **Journal Articles**

S. G. Varzaneh, A. Raziabadi, **M. H. zadeh**, and M. J. Sanjari, "Optimal energy management for pvintegrated residential systems including energy storage," *IET Renewable Power Generation*, 2019. **9** URL: http://hdl.handle.net/10108/79286.

#### **Conference Articles**

- **M. H. zadeh**, S. Del Prete, F. Fuschini, M. Barbiroli, E. M. Vitucci, and V. Degli Esposti, "Machine learning approach to delay spread estimation in industrial environments," in *Proceedings of 18th European Conference on Antennas and Propagation (EuCAP 2024)*, Glascow, Scotland, 2024.
- S. Del Prete, F. Fuschini, M. Barbiroli, and **M. H. zadeh**, "A study on propagation of frequency diverse array in multipath environments," in *Proceedings of the 24th edition of the International Conference on Electromagnetics in Advanced Applications (ICEAA 2023)*, Venice, Italy, 2023, pp. 39–47. URL: http://goo.gl/pfdUfm.
- M. H. zadeh, F. Fuschini, M. Barbiroli, V. Degli Esposti, E. M. Vitucci, and S. Del Prete, "Site-specific machine learning approach for line of sight detection," in *Proceedings of the 12th edition of the IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications (IEEE-APWC 2023)*, Venice, Italy, 2023, pp. 39–47. URL: http://goo.gl/pfdUfm.
- S. Del Prete, N. Di Cicco, **M. H. zadeh**, et al., "A study on line-of-sight prediction in urban manhattan-like environments using an optimized machine learning algorithm," in *Proceedings of the 35th URSI General Assembly and Scientific Symposium (URSI GASS 2023)*, Sapporo, Japan, 2022, pp. 39–47. URL: http://goo.gl/pfdUfm.

5

K. M. Sharifi, A. Raziabadi, B. Farzanegan, **M. H. zadeh**, and M. B. Menhaj, "Emotional state recognition based on brain and peripheral signals using multi-class optimized fsvm classifiers," in *Proceedings of 5th National Conference on Electrical and Mechatronics Engineering*, Tehran, Iran, 2019, p. 1.6.

# **Skills**

Languages Mother tongue Persian, Advanced English, Basic Italian.

Coding Python, MATLAB, LTEX, sql

Tools Ray Tracing

Misc. Academic Research, Teaching, Training, Consultation, Lagrange typesetting, and publishing.

# **Miscellaneous Experience**

### **Awards and Achievements**

2019 Merit Award, UniBo Actio 2 Scolarship based on GRE exam.

### Certification

Short-Range Radio Propagation: Theory, Models, and Applications. Held by The European School of Antennas and Propagation (ESoA).

## References

### **Prof Franco Fuschini**

University of Bologna, franco.fuschini@unibo.it

### Prof Marina Barbiroli

University of Bologna, marina.barbiroli@unibo.it