Ehsan Lari — Curriculum Vitae

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Homepage

Highlights

- PhD specialized in statistical machine learning and signal processing from NTNU Trondheim
- 4+ years research experience in the development of statistical learning algorithms
- Teaching experience in statistical machine learning courses
- Research experience in distributed statistical machine learning algorithms
- Several publications in high-quality venues including ICASSP and EUSIPCO
- Strong academic background in mathematics, statistics, linear algebra, and optimization
- Curious learner looking forward to making meaningful contributions in tackling fresh challenges

Professional Positions

Assistant Professor — **Trondheim, Norway**
Department of Electronic Systems — *Fall 2022*
Norwegian University of Science and Technology (NTNU)

Education

Norwegian University of Science and Technology (NTNU) — **Trondheim, Norway**
Ph.D. in Electrical Engineering — *Spring 2020–Spring 2024*
Department of Electronic Systems (IES)

Amirkabir University of Technology (Tehran Polytechnic) — **Tehran, Iran**
M.Sc. in Electrical Engineering, GPA: 3.91/4 — *Fall 2016–Fall 2018*
Telecommunications and Signal Processing Group

Amirkabir University of Technology (Tehran Polytechnic) — **Tehran, Iran**
B.Sc. in Electrical Engineering, Dual degree, GPA: 3.92/4 — *Fall 2012–Fall 2016*
Telecommunications and Signal Processing Group

PhD Project

Thesis Title: *Distributed Learning with Enhanced Efficiency, Robustness and Privacy*

Supervisors: Prof. Stefan Werner (NTNU, Norway), Reza Arablouei (CSIRO's Data61, Australia)

Skills

Programming Languages: Python

Engineering Softwares: MATLAB, Microsoft Office

Soft Skills: Problem Solving, Critical Thinking, Communication, Teamwork, Adaptability, Time Management, Leadership

Publications

Journal Papers

- E. Lari, R. Arablouei, V. C. Gogineni, S. Werner, "Noise-Robust and Resource-Efficient ADMM-based Federated Learning", submitted to IEEE Open Journal of Signal Processing.
- E. Lari, R. Arablouei, V. C. Gogineni, S. Werner, "Resilience in Online Federated Learning: Mitigating Model-Poisoning Attacks via Partial Sharing", submitted to IEEE Transactions on Signal and Information Processing over Networks.

Conference Papers

- E. Lari, R. Arablouei, and S. Werner, "Privacy-Preserving Distributed Nonnegative Matrix Factorization," in Proc. IEEE EUSIPCO 2024, Lyon, France, Aug. 2024.
- E. Lari, R. Arablouei, N. K. D. Venkategowda, and S. Werner, "Distributed Maximum Consensus over Noisy Links," in Proc. IEEE EUSIPCO 2024, Lyon, France, Aug. 2024.
- E. Lari, V. C. Gogineni, R. Arablouei, and S. Werner, "On the Resilience of Online Federated Learning to Model Poisoning Attacks through Partial Sharing," in Proc. IEEE ICASSP, Seoul, South Korea, Apr. 2024.
- E. Lari, V. C. Gogineni, R. Arablouei, and S. Werner, "Continual Local Updates for Federated Learning with Enhanced Robustness to Link Noise," in Proc. IEEE APSIPA, Taipei, Taiwan, Nov. 2023.
- E. Lari, V. C. Gogineni, R. Arablouei, and S. Werner, "Resource-Efficient Federated Learning Robust to Communication Errors," in Proc. IEEE SSP Workshop, Hanoi, Vietnam, July 2023.

Languages

Persian: Native proficiency

English: Full professional proficiency

Norwegian, Bokmål: Limited working proficiency

Honors and awards

Offer for Assistant Professor Position — **Department of Electronic Systems (IES)**
NTNU — *Fall 2022*

Accepted for PhD Program — **Department of Electronic Systems (IES)**
NTNU — *Fall 2019*

McGill Engineering International Tuition Award (MEITA) — **ECE Department**
McGill university — *Fall 2019*

Accepted for PhD Program — **ECE Department**
McGill university — *Fall 2019*

References

Can be provided upon request