Sahar Allahkaram

Research Assistant
Instituto de Telecomunicações - IUL

Contacts

E-mail	Sahar_Allahkaram@iscte-iul.pt
Office	D0.08

Research Interests

- Signal Processing for Wireless Communications
- Multiple-input Multiple Output (MIMO)
- Ultra Reliable Low Latency Communication
- Channel Coding Rate in the Finite Block-length Regime
- Noise-Guessing Decoders
- Detection theory, modulation and coding
- Coding and Information theory

Academic Qualifications

University/Institution	Type	Degree	Period

ISCTE-Instituto Universitario de Lisboa - Centro de Investigacao em Ciencias da Informacao Tecnologias e Arquitetura	PhD	PhD in Information Science and Technology	2025
Sapienza University	M.Sc.	Master Degree in Aerospace Engineering	2021
Azad University	Bachelor of Science	Bachelor degree in Electrical Engineering	2015

Total Citations

Web of Science®	6
Scopus	8

Publications

• Scientific Journals

- Scientific journal paper

1	Allahkaram, S., Monteiro, F. A. & Chatzigeorgiou, I. (2025). Constrained symbol-level noise-guessing decoding with antenna sorting for massive MIMO. IEEE Open Journal of the Communications Society. N/A - Times Cited Google Scholar: 6

• Conferences/Workshops and Talks

- Publication in conference proceedings

1	Allahkaram, S. & Monteiro, F. A. (2025). Uniquely Decodable Signature Sequences Over the Noisy Adder Channel. In 12th International Symposium on Networks, Computers and Communications (ISNCC'25). Paris
2	Allahkaram, S., Monteiro, F. A. & Chatzigeorgiou, I. (2022). URLLC with coded massive MIMO via random linear codes and GRAND. In 2022 IEEE 96th Vehicular Technology Conference (VTC2022-Fall). London: IEEE. - Times Cited Web of Science®: 6 - Times Cited Scopus: 6 - Times Cited Google Scholar: 18
3	Mohamad Reza Tavakoli, Vahid Rasouli & Allahkaram, S. (2015). A new design of double input power system stabilizers using SQP for interconnected power systems. In 2015 Modern Electric Power Systems (MEPS). (pp. 1-6). Wroclaw, Poland: IEEE. - Times Cited Scopus: 1 - Times Cited Google Scholar: 4
4	Vahid Rasouli, Allahkaram, S. & Mohamad Reza Tavakoli (2015). Application of adaptability coefficient in power production evaluation of a wind farm. In Eugeniusz Rosoowski, Rafa Weron (Ed.), Modern Electric Power Systems 2015. (pp. 1-6). Wroclaw: IEEE. - Times Cited Scopus: 1 - Times Cited Google Scholar: 2

- Talk

1	Allahkaram, S. & Monteiro, F. A. (2025). Uniquely Decodable Signature Sequences Over the Noisy Adder Channel. 12th International Symposium on Networks, Computers and Communications (ISNCC'25).
2	Allahkaram, S., Monteiro, F. A. & Chatzigeorgiou, I (2023). URLLC with Coded Massive MIMO via Random Linear Codes and GRAND. 33º Seminário Rede Temática de Comunicações Móveis (RTCM).
3	Allahkaram, S., Monteiro, F. A. & Chatzigeorgiou, I (2022). URLLC with Coded Massive MIMO via Random Linear Codes and GRAND. IEEE 96th Vehicular Technology Conference (VTC 2022 - Fall).