# Sahar Allahkaram

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## Contacts



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## 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 |
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|---|---|---|---|
| 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**

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|---|---|
| 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<br>- Times Cited Google Scholar: 6 |

### • Conferences/Workshops and Talks

**- Publication in conference proceedings**

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|---|---|
| 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.<br>- Times Cited Web of Science®: 6<br>- Times Cited Scopus: 6<br>- 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.<br>- Times Cited Scopus: 1<br>- 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.<br>- Times Cited Scopus: 1<br>- Times Cited Google Scholar: 2 |

**- Talk**

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| 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). |