



LUIZ COELHO

Technical Specialist

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PRACTICE AREAS

- Patents

LANGUAGES

- Portuguese
- English
- French

BIOGRAPHY

Luiz Felipe Coelho has been a consultant at Licks Attorneys' Rio de Janeiro office since 2026. Mr. Coelho has extensive experience in wireless communication systems research, collaborating with international research groups to develop technologies for the physical layer of future networks. He supports the patent team with his expertise in digital signal processing for wireless communications.

Mr. Coelho holds an M.Sc. in Electrical Engineering from COPPE/UFRJ and a B.Sc. in Electrical Engineering from UERJ. He is currently pursuing a Ph.D./D.Sc. in Electrical Engineering from COPPE/UFRJ and CNAM under a cotutelle between the two institutions.

AFFILIATIONS

- Student Member of IEEE.

EDUCATION

- D.Sc./Ph.D. candidate, Electrical Engineering, Federal University of Rio de Janeiro – UFRJ/Conservatoire National des Arts et Métiers – CNAM (ongoing);
- Master's Degree (M.Sc.), Electrical Engineering, Federal University of Rio de Janeiro – UFRJ (2024);
- Bachelor's degree (B.Sc.), Electrical Engineering, Rio de Janeiro State University – UERJ (2019).

PUBLICATIONS

- [Multiplierless MLP Using Successive Vector Approximation in Post-Training Quantization](#). 2025 IEEE International Symposium on Circuits and Systems (ISCAS), 2025;

- [Low-Rank Approximation for ISAC with Constrained Computational Complexity.](#)
2025 33rd European Signal Processing Conference (EUSIPCO), 2025;
- [Optimal Window Design for Intercarrier and Intersymbol Interference Power Minimization in w-OFDM.](#) IEEE Wireless Communications Letters, 2024;
- [Adaptive Filtering With Reduced Computational Complexity Using SOPOT Arithmetic.](#)
IEEE Transactions on Circuits and Systems I: Regular Papers, 2022.