



ANDRÉ BARRETO

Electrical and Telecommunications Engineer
and Patent Specialist

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PRACTICE AREAS

- Patents
- Industrial Designs
- Computer Programs
- Topographies of Integrated Circuits
- Regulatory

LANGUAGES

- Portuguese
- English
- French
- Spanish
- Italian

BIOGRAPHY

André Noll Barreto has been Head of Patents at Licks Attorneys' Rio de Janeiro office since 2024. Mr. Barreto has over 25-year experience in the telecommunications field, spanning both industry and academia, where he has been involved with patent development and regulatory cases. He has published more than 100 peer-reviewed papers, including four international patents granted and six that have been filed.

PROFESSIONAL HIGHLIGHTS

- Chair of the Centro-Norte Brasil Section of the IEEE;
- Chair of the Brazilian Communication Symposium, 2012.

AFFILIATIONS

- Senior Member of the IEEE.

EDUCATION

- EngD in Electrical Engineering, Technical University Dresden (TUD), 2001;
- MSc in Electrical Engineering, Pontifical Catholic University – Rio de Janeiro (PUC-Rio), 1996;
- BEng in Electrical Engineering, Pontifical Catholic University – Rio de Janeiro (PUC-Rio), 1994.

PUBLICATIONS

- [Co-existence of Terrestrial and Non-Terrestrial Networks in S-band](#), arXiv, 2024;
- [Physical layer security-from theory to practice](#), IEEE BITS the Information Theory Magazine, 2023;
- [Correction to: RF Front-Ends for ISAC—Design Challenges and Potential Solutions](#), Integrated Sensing and Communications, 2023;

- [Mobility Performance Analysis of RACH Optimization Based on Decision Tree Supervised Learning for Conditional Handover in 5G Beamformed Networks](#), arXiv, 2023;
- [Physical Layer Security](#), Security and Privacy Vision in 6G: A Comprehensive Guide, 2023;
- [RF Front-Ends for ISAC - Design Challenges and Potential Solutions](#), Integrated Sensing and Communications, 2023;
- [Performance analysis of zero-padded sequences for joint communications and sensing](#), IEEE Transactions on Signal Processing, 2023;
- [Filterbank secret key generation rates in multipath channels](#), GLOBECOM 2022-2022 IEEE Global Communications Conference, 2022;
- [Hermespy: An open-source link-level evaluator for 6G](#), IEEE Access 10, 2022;
- [Effective Equalization for Overlapped Chirp-based Communications Systems](#), 2022 IEEE 95th Vehicular Technology Conference:(VTC2022-Spring), 2022;
- [Secret key generation rates over frequency selective channels](#), 2022 IEEE 95th Vehicular Technology Conference: (VTC2022-Spring), 2022;
- [Secure communications in line-of-sight scenarios by rotation-based secret key generation](#), 2022 IEEE International Conference on Communications Workshops (ICC Workshops), 2022;
- [Efficient Reliable Wireless Communications through Raptor Codes and Rateless Codes with Feedback](#), ICC 2022-IEEE International Conference on Communications, 2022;
- [A study on physical layer security through ray tracing simulations](#), 2022 16th European Conference on Antennas and Propagation (EuCAP), 2022;
- [Meta-surface boosted antenna to achieve higher than 50 db trx isolation at 26 ghz for joint communication and radar sensing \(JC&S\)](#), 2022 16th European Conference on Antennas and Propagation (EuCAP), 2022;
- [A half-duplex joint communications and sensing system using ZP-OFDM](#), 2022 2nd IEEE International Symposium on Joint Communications & Sensing (JC&S), 2022;
- [Context-aware security for 6G wireless: The role of physical layer security](#), IEEE Communications Standards Magazine, 2022.

