# Special Issue

# The Linearization of Radiofrequency Transmitters for Wideband Applications and Future Wireless Standards

## Message from the Guest Editors

With the rapid advancement of wireless communication technologies toward 6G and beyond, the linearization of radiofrequency (RF) transmitters has become increasingly crucial. Current techniques like digital pre-distortion (DPD) and hybrid analog–digital approaches have made significant strides, yet the demands of wideband applications necessitate further innovation. This Special Issue invites original research on state-of-the-art linearization methods, emphasizing digital pre-distortion, hybrid linearization, and machine learning (ML) or artificial intelligence (AI)-driven solutions. We are particularly interested in contributions that explore novel pre- and post-distortion techniques, informed data selection for ML training, and the integration of real-time adaptation mechanisms. Additionally, studies focused on hardware implementations and the application of these techniques in emerging 6G technologies are highly encouraged. Review papers will also be considered. Submissions should present theoretical advancements, practical implementations, and experimental validations, with an emphasis on real-world applicability.

## Guest Editors

Dr. Konstantinos Mimis

Dr. Souheil Bensmida

Prof. Dr. Oualid Hammi

## Deadline for manuscript submissions

20 January 2026

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*Sensors*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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## Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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