

## Special Issue

# Near-Field Probing for Integrated Circuits

### Message from the Guest Editors

Near-field probing is a sensing technique developed to measure the electromagnetic fields close to and even inside an integrated circuit (IC). Such fields can be related to the electromagnetic compatibility properties of the IC and used to sense current or voltage signals inside the IC, enabling, for instance, non-invasive failure analysis. To probe the near field of an IC, electromagnetic field coupling is commonly used, but other techniques exist. This Special Issue will explore the use of electromagnetic field coupling in probing the near fields of ICs, highlighting its common applications and potential alternatives. These techniques are essential for detecting and analyzing the electromagnetic characteristics of ICs and play a key role in fault diagnosis and performance optimization. We invite you to submit short communications, full research articles, and up-to-date reviews, with a particular focus on advanced techniques based on near-field probing.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 December 2025)



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