



DEEPSIG

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DeepSig is using machine learning to improve base station performance and reduce power consumption for 5G L1 algorithms and enhancements to the Open-Radio Access Network (O-RAN) stack.

We will be running low power commercial Radio Unit (RU) and Distributed Unit (DU) to comprise a small developmental 5G test network to facilitate test and measurement of the enhancements with commercial off the shelf (COTS) 5G user equipment (UE) devices. We will measure performance over real world channels to demonstrate how learning from real data can provide distinct advantages over simulated channel models. We have already demonstrated the approach on ISM bands and on simulations to be effective.