bubble RAN

ITRI Industrial Technology Research Institute

Co-funded by the European Union

6GSNS

6G SENSES

Realtime Spatial Awareness with ISAC FOR 6G NETWORKS

AI-driven Sensing Algorithm with an ISAC 6G Service Model

SUB MILLI SECOND sensing

KEY FEATURES

- O-RAN COMPLIANT ISAC SOLUTION
- REAL-TIME SENSING
- LOCALIZATION AND POSITIONING
- 3D HEATMAP

Demo

This PoC, empowered by OpenAirInterface, demonstrates a real-time spatial localization and heatmap xApp enabled by a custom O-RAN ISAC service model exposing sounding reference signals and I/Q samples with sub-millisecond latency.

Innovation

Cutting-edge AI-driven sensing and position algorithms, realized in a form of xApp, highlighting the role of O-RAN in enabling ISAC.

Impact

This joint effort highlights the transformative potential of ISAC, merging sensing and communication capabilities, effectively creating new business opportunities and redefining the role of cellular networks in future industry.

Sub-millisecond Sensing Allowing Future Applications. Highlighting the Transformative Potential of ISAC.