

Beyond 5G White Paper 6G Radio Technology Project “Sensing Technologies”

September 30, 2025

Wireless Sensing Working Group

Beyond 5G White Paper 6G Radio Technology Project “Sensing Technologies”

• Organization of WG

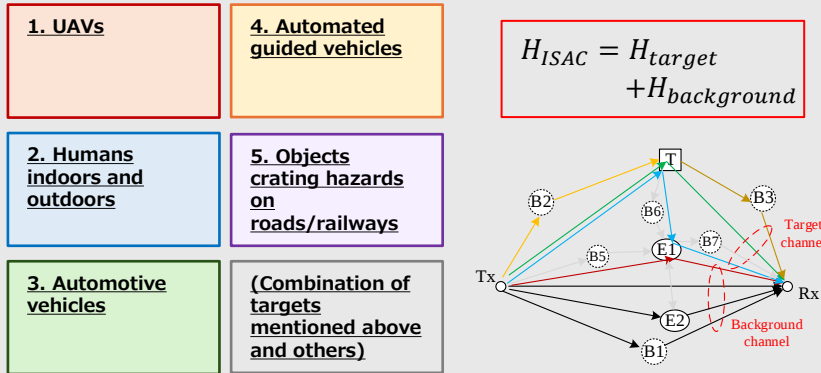
- Chair: S. Suyama (NTT DOCOMO, INC.), Vice chairs: T. Murakami (NTT, Inc.), H. So (Kogakuin University)

• Objectives of WG

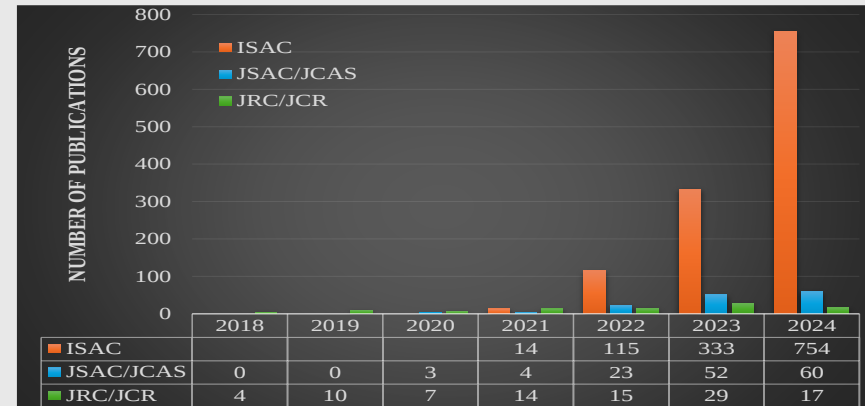
- Engage in discussions regarding use cases, applications, and standardization and technological trends
- Promote PoC leading to practical application and share experimental dataset for wireless sensing

Standardization and Technological trends of integrated sensing and communications (ISAC)

Use cases and channel model



Publication trends in IEEE Xplore

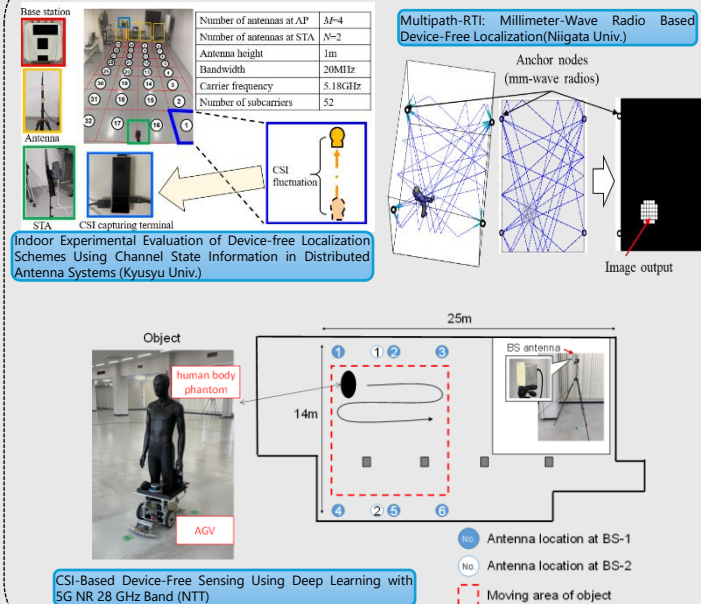


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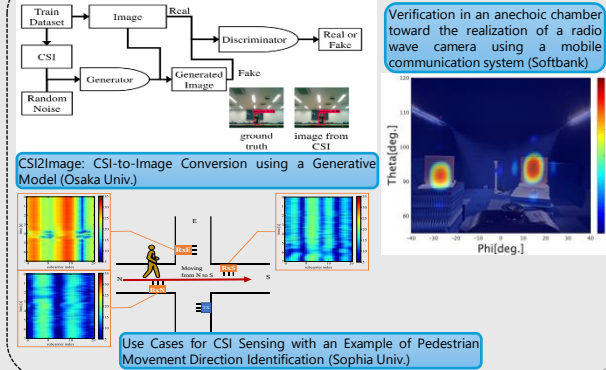
Measurement and realistic simulation evaluations of ISAC in Japan.
To accelerate the feasibility evaluation of wireless sensing technologies based on ISAC, our group have initiated discussions on demonstration/PoC and device/data sharing.

R&D activities in Japan for ISAC

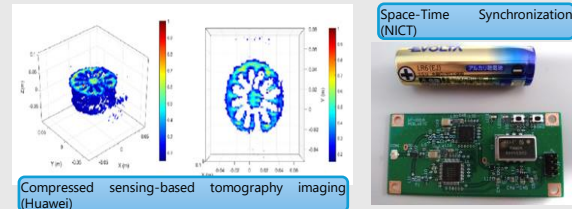
Localization



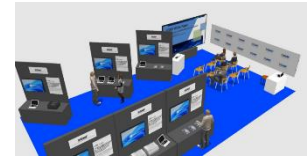
Object detection



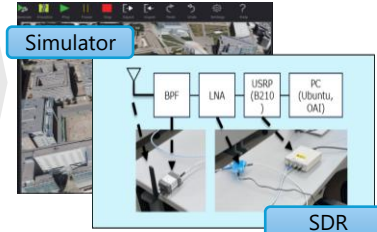
Imaging etc.



Joint exhibition
-WTP2025 in Japan-



Evaluation tool sharing



Measurement data sharing

