

Special Session on
Development of a full-duplex wireless system with self-interference cancellation

Special Session co-Chairs:

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Topics of interest:

- Analog Self-interference (SI) cancellation
- Digital Self-interference (SI) cancellation
- Full duplex (FD) for Beyond 5G and 6G wireless networks
- Antenna Arrays for Full-Duplex Systems
- Amplifier nonlinearity

Reasons why and how the Workshop/Special Session would attract the ICT 2026 audience

The ongoing research into Full Duplex (FD) is driven by its significant potential benefits for future wireless generations, including B5G and 6G. If successfully implemented, FD could double the effective capacity of a given slice of radio spectrum and significantly reduce communication latency because data wouldn't need to wait for alternating transmit/receive slots. This technology is seen as a promising enabler for Beyond 5G and 6G wireless networks, particularly in applications like intelligent transportation systems and fixed wireless access where higher power and less constrained form factors can make implementation easier.

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Potential support

This work is supported by the Engineering and Physical Sciences Research Council (EPSRC), UK, under grants EP/X041581/1 & EP/X041395/1.