



MiFuture News

Industry news, papers and events related to 6G C MIMO

July 2026

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MiFuture News: Monthly Updates on 6G and MIMO Technologies

MiFuture News is a monthly publication of the MiFuture project, complementing the MiFuture Newsletter, which will be published every six months. While the Newsletter includes internal project updates, MiFuture News features articles and information from external sources freely available on the internet.

This publication aims to gather the most interesting industry news, relevant technical papers, and upcoming events related to 6G and MIMO technologies to share with supervisors and PhD students within the project.

If you come across any interesting news, please share it with us for inclusion in the next issue.



[VIAVI Joins EU-Funded SHIELD-6G Consortium to Advance AI-Driven Security Testing for Future 6G Networks](#)

July 14 - VIAVI Solutions Inc. (VIAVI) (VIAV) today announced that it has been awarded \$1.1 million in funding from the European Smart Networks and Services Joint Undertaking (SNS JU) and Horizon Europe to advance the SHIELD-6G project.

[Beyond agent mania - The architecture shift reshaping the telco industry](#)

July 17 - Agentic AI dominates telecom marketing right now, but beneath the hype, an architectural shift is occurring. 3GPP's push toward an AI-native 6G standard signals that autonomous, intelligent networks are central to the next evolution. Yet operators are still burdened by fragmented legacy software that was never designed for intelligent autonomy.

[Why 6G demands a network infrastructure and security overhaul?](#)

July 13 - A self-driving car can generate up to 19 terabytes of data in an hour. Thousands of such vehicles operating at the same time can choke 5G networks handling their 3D maps and sensor data in real time. Even the 20 to 50 millisecond latency on 5G can become critical for self-driving cars, as the delays in critical stop commands can lead to accidents.

[Why the Future of Telecom Depends on Network Intelligence](#)

July 16 - As networks become increasingly autonomous, telecom operators are beginning to rethink what “network quality” actually means. For years, the industry measured success through speed and coverage. Today, the conversation is shifting toward reliability, consistency, adaptability, and how networks perform under real-world conditions.

[EU's €8m Shield-6G project targets AI-native network security](#)

June 15 - University College Dublin leads a 19-partner EU consortium to embed AI-driven cyber resilience into 6G architecture before the first commercial networks go live.

BT demos 5G+ network slicing at Royal Welsh Show

July 17 - The 5G+ network will help businesses process payments during busy trading periods, enable more reliable livestreaming and real-time content sharing, and in general will “support enhanced experiences for both organisations and consumers, even in the busiest environments,” says BT.

Warsaw's Microamp raises €6.5 million to support European 5G and 6G network technology

June 17 - Warsaw-based Microamp, an innovator in resilient 5G mmWave wireless solutions, has been awarded €6.5 million in funding to accelerate the development of the Microamp Any-G mmWave AI-RAN Wireless Platform - a fully reconfigurable, software-defined system enabling seamless adaptation across evolving 3GPP standards, frequency bands, network modes and 6G features.

EU and India strike major tech pact on chips, AI, 6G, and quantum computing expert

July 15 - The European Union and India have formalized a sweeping technology cooperation agreement covering semiconductors, artificial intelligence, 6G telecommunications, and quantum computing. The deal, part of the broader EU-India Trade and Technology Council framework, represents one of the most ambitious cross-continental tech partnerships in recent memory.

Nokia says long-term 6G is not doable without Nvidia

July 15 - Held annually around this time of year in Espoo, Nokia's "Midsummer Launch" is where the Finnish vendor hopes customers will be as enchanted by its latest mobile network magic as the humans are by woodland fairies in Shakespeare's own nod to midsummer antics. This year's event marks the first since Nokia's industry-shaking deal in late 2025 to make Nvidia's graphics processing units (GPUs) the foundation of its future radio access network (RAN) products - oiled by a \$1 billion investment from the giant US chipmaker. That future may just have arrived.

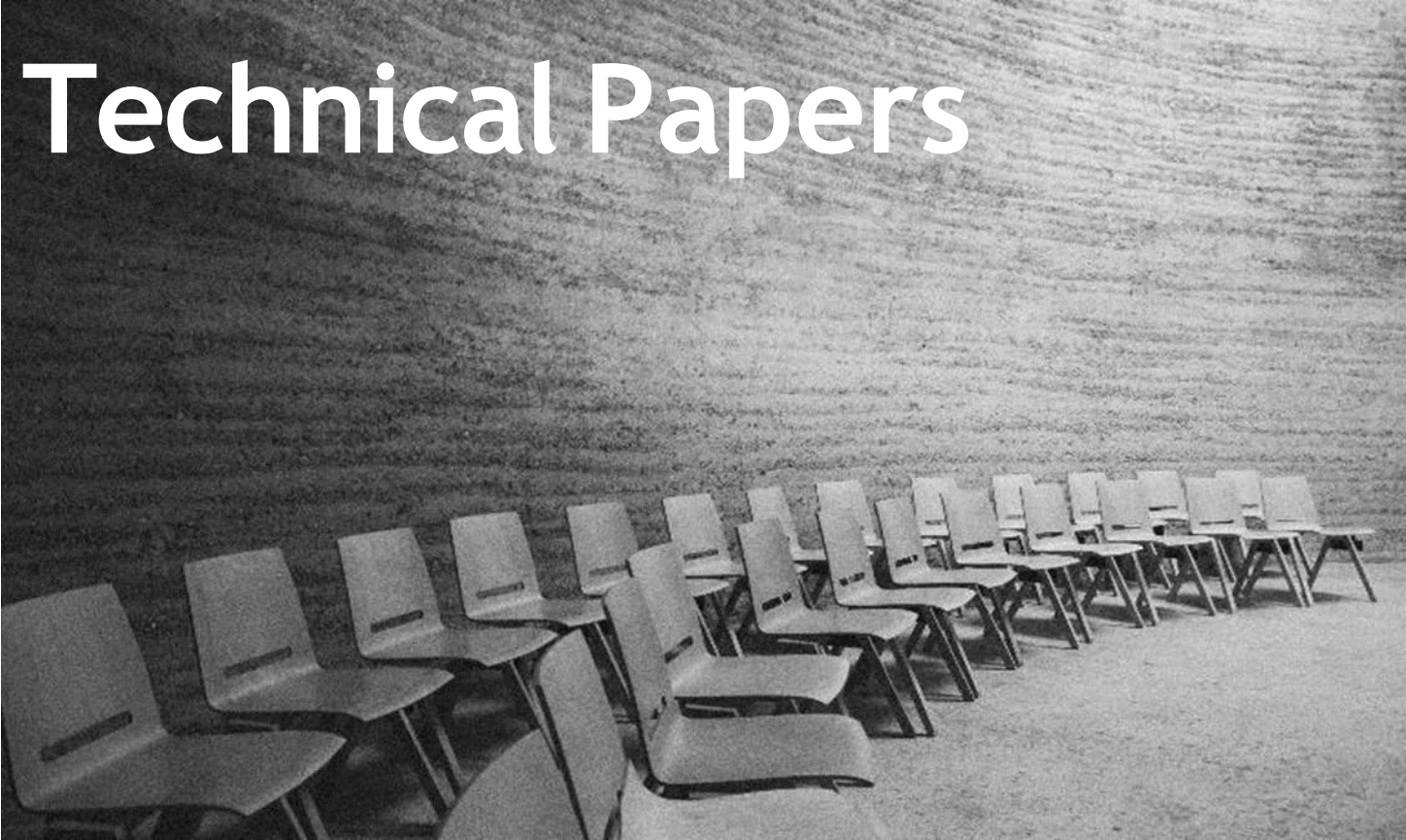
Qualcomm retreats from small cells with eye on bigger 6G prize

July 04 - An amalgam of brilliant engineers and sharp lawyers, Qualcomm has been the quiet and invisible force powering mobile ever since the portable comms gadgets appeared. Owning many of the most valuable patents, it extracts higher royalties in percentage terms than other licensors, earning \$44.3 billion in revenues and \$12.4 billion in operating profits for its last fiscal year from the licensing of intellectual property and sale of chips aimed mainly at smartphones. Yet anyone tuning in to its latest investor update had to wait two hours to hear anything about 6G, mobile's next big thing. And there were few overt references to networks.

EU and India strike major tech pact on chips, AI, 6G, and quantum computing

July 15 - The partnership builds on years of bilateral groundwork and could reshape global semiconductor supply chains, with downstream implications for crypto mining and AI-driven trading infrastructure.

Technical Papers



[Integrated Sensing And Communications \(ISAC\); System and RAN Architectures](#)

ETSI

The present document identifies considerations and challenges related to system architecture, RAN architecture and lower layer RAN to support advanced ISAC use cases for a future 6G system. A total of 17 considerations and challenges are identified and described in the present document. In addition to the identified challenges, the present document also presents various potential approaches for the identified considerations and challenges. These include various system and RAN architectural approaches, top level procedures and signalling between entities, and also selected message definitions and formats. Finally, the present document draws conclusions and formulates recommendations for further ISAC work on integration of computing with ISAC and ISAC work on security, privacy, trustworthiness, and sustainability aspects. These recommendations also relate to ISAC work items which may be approved at a later time for subsequent phases of this ISG.

[Integrated Sensing And Communications \(ISAC\); Security, Privacy, Trustworthiness and Sustainability](#)

ETSI

The present document provides a comprehensive study on aspects related to security, privacy, trustworthiness, and sustainability within the context of Integrated Sensing and Communications (ISAC). The present document identifies 19 key issues, of which 15 are related to privacy and security, and 4 related to sustainability. For each key issue, a detailed description is provided, together with potential technical and non-technical requirements. For the privacy and security key issues, the analysis is supported with a comprehensive set of threats per key issue. In addition, the present document includes initial considerations on aspects related to trustworthiness and ownership of sensing data. The potential technical and non-technical requirements are analysed to identify consolidated requirements that future 6G systems should

meet to deploy secure, privacy-preserving, trustworthy, and sustainable ISAC services

[Integrated Sensing And Communications \(ISAC\); Channel Modelling, Measurements and Evaluation Methodology](#)

ETSI

The present document provides an overview of the current state-of-the-art in ISAC channel modelling approaches and summarizes their key limitations. In addition, the present document provides ISAC channel modelling enhancements, including RCS modelling for complex objects, micro-Doppler modelling for small-scale motion recognition, micro-deformation modelling for structural health monitoring, and rainfall attenuation modelling for power loss caused by precipitation. Finally, the present document presents conclusions and recommendations for future work addressing required developments for ISAC systems and radio access network architectures, including security, privacy, trustworthiness, and sustainability.

[Integrated Sensing And Communications \(ISAC\); Use Cases and Deployment Scenarios](#)

ETSI

The present document identifies 18 advanced use cases relying on Integrated Sensing And Communications (ISAC) and their technological benefits. Described use cases bring societal benefits in various fields such as healthcare, public safety, transportation, robotics, smart factories or smart cities. Described use cases are analysed to highlight consolidated requirements and KPIs that future 6G communications systems need to ensure to support these advanced use cases. The present document formulates considerations on deployment scenarios, suitable frequency bands, sensing modes, and integration levels. The present document also gives an overview of challenges associated with the described use cases. Finally, the present document draws conclusions and formulates recommendations in terms of needed future work on ISAC channel modelling, measurements, evaluation methodology, system and radio access network architectures, security, privacy, trustworthiness, and sustainability for ISAC.

[AI SURGE AND ITS IMPLICATIONS FOR 6G](#)

NGMN Alliance

This is a pivotal moment in the telecommunications industry, propelled by the unprecedented AI surge and the beginning of 6G standardisation. AI is advancing at a rapid pace and will remain a dominant force, reshaping society far beyond the 6G era. This document consolidates NGMN's perspectives on how AI will likely impact 6G standardisation, providing guidance for ongoing 6G studies. This study examines three key dimensions: (1) impact of AI traffic on networks, (2) network for AI, and (3) AI for network and implications for 6G architecture evolution.

[NETWORK ARCHITECTURE EVOLUTION TOWARDS 6G](#)

NGMN Alliance

NGMN - Next Generation Mobile Networks Alliance - initiated collaborative studies with NGMN Mobile Network Operator (MNO) Members, vendors and academia (NGMN Alliance membership) to guide the network architecture evolution towards 6G. This publication explores key factors influencing possible architecture changes, design principles, and challenges.



IEEE 6G Summit Singapore

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6G for the AI-Native Era: Connecting Data,
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International Conference on Localization and GNSS



5th International Conference on 6G Networking

February 08-10, 2027
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6G-SATCOM 2027

2027 INTERNATIONAL CONFERENCE ON 6G AND
SATELLITE COMMUNICATION

August 13-15, 2027

2027年6G与卫星通信国际会议