



MiFuture News

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

May 2026

Grant Agreement Number: 101119643

Project Acronym: MiFuture

Project Title: ultra-massive MIMO for future cell-free heterogeneous networks

Call: HORIZON-MSCA-2022-DN-01

Type of action: HORIZON TMA MSCA Doctoral Networks- Industrial Doctorates

Granting authority: European Research Executive Agency

Project start date: 01/01/2024

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.



[6G: Reaching from the Ground to the Sky \(Part 2\)](#)

May 07 - 6G is rapidly evolving from concept to engineering reality, with global verification, standardization, and prototype testing already underway. Unlike 5G, 6G aims to provide intelligent, full-domain connectivity across air, space, land, and sea, integrating communication, sensing, computing, and AI to enable advanced applications such as holographic communication and remote precision control.

[China approves 6GHz band trial spectrum for 6G development](#)

May 08 - China has taken a step forward in next-generation telecommunications by approving trial spectrum in the 6GHz band for 6G technology development, the Ministry of Industry and Information Technology said on Friday.

[Spectrum, 6G, and the Future of AI Leadership](#)

May 06 - As AI continues to proliferate from autonomous systems to industrial automation, so too will the demand for quick, reliable, low-latency connectivity. This evolution will place spectrum policy as a central pillar for AI advancement, underpinning the key infrastructure needed for these systems to deploy.

[Nokia's incredible revolution: From Snake to the most advanced G6 era](#)

May 09 - Many of us still hold a warm place in our hearts for the old Nokia phones - the ones with interchangeable panels and addictive games. Back then, Nokia was the undisputed queen of the tech world. But the revolution it is leading today is far removed from the world of small pocket devices; it is now focused on building the backbone of human civilization itself.

[SL eyes 6G research centre by late 2026](#)

May 10 - Sri Lanka is planning to establish a dedicated research centre for 6G and next-generation wireless technologies by the third quarter of 2026, in collaboration with foreign partners and the private sector.

HFR Accelerates Development of GPU-Based AI-RAN, a Core 6G Technology, in Collaboration with ETRI

May 08 - HFR, Inc. (KOSDAQ: 230240), a leading telecommunications equipment provider, announced today that it has launched the full-scale development of 'AI-RAN,' widely considered the core technology for 6G.

Everything you need to know about 6G

May 08 - 5G became operational in 2019, introducing the fifth generation of mobile telecommunications standards. Today the industry is already working on the next technology: 6G, expected to arrive by 2030, although some markets may adopt it sooner.

China launches first Pre-6G test network, bringing 6G closer to reality: expert

April 21 - China's first Pre-6G test network was officially put into operation in Nanjing, the capital city of East China's Jiangsu Province, on Tuesday, according to CCTV News. A Chinese industry analyst said that the move represents another step closer for 6G technology toward real-world applications.

The industrialization of 6G is accelerating as the Ministry of Industry and Information Technology has approved the use of the 'golden spectrum' for trials.

May 08 - The IMT-2030 (6G) Promotion Group is responsible for advancing 6G technology trials; ② 6G has been listed as a key direction for China's future industries, and the country has successfully completed the first phase of 6G technology trials; ③ This policy implementation is expected to address the shortfall in domestic field testing, strengthening the foundation for verifying 6G core performance.

India's 6G ambition faces a 5G monetization reality check

May 04 - India has world-class 5G infrastructure, but low ARPU, a tiny base of premium users and digitally immature enterprises could threaten its 6G aspirations.

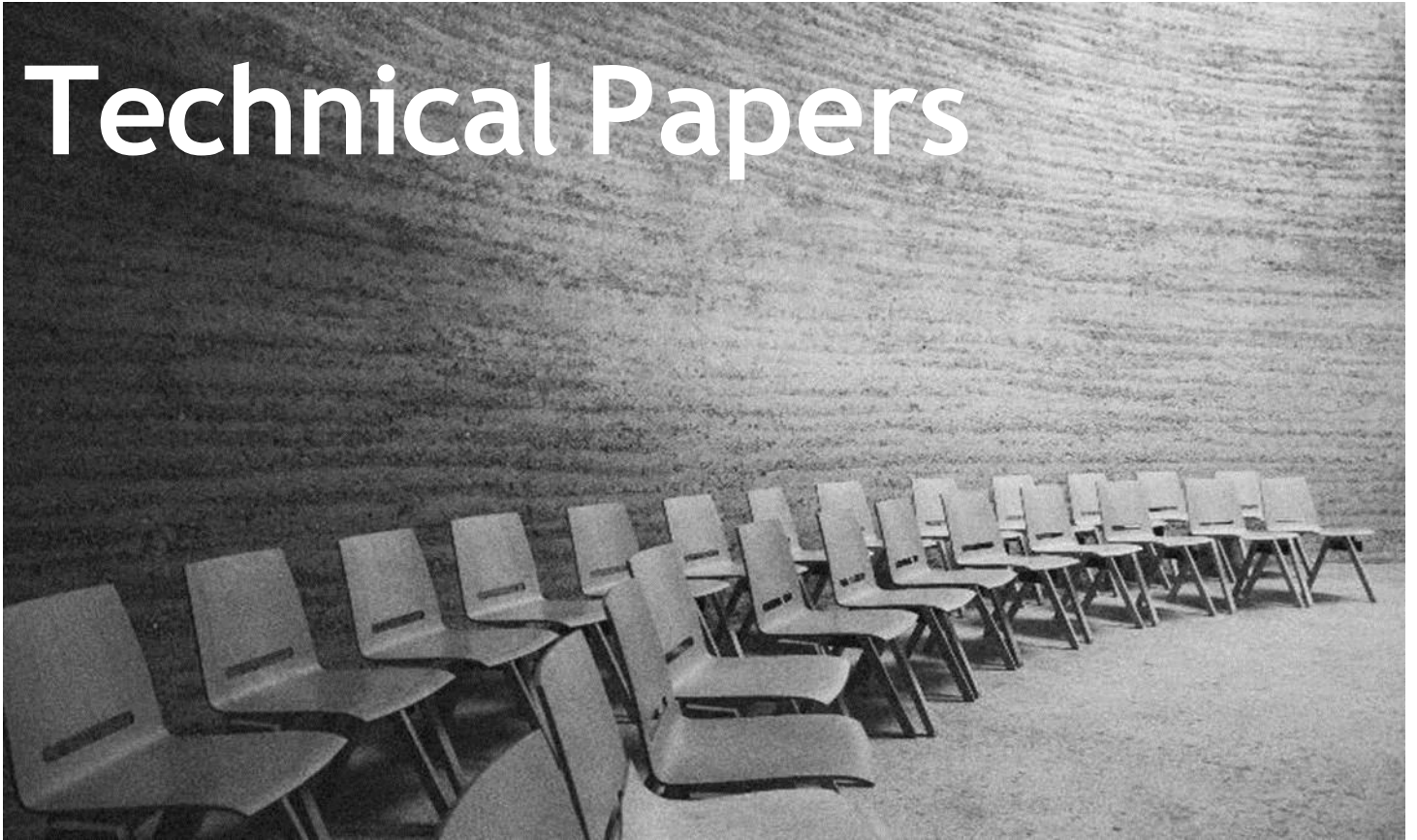
The Next Step in Wireless Cellular Technology: 6G

May 01 - A team of researchers has developed the world's thinnest electromagnetic wave absorber, capable of absorbing waves in the 0.1-1 THz range.

VTT and TNO expand defence cooperation in drones and 6G

May 05 - Finnish VTT and Dutch TNO have signed a memorandum of understanding on expanded defence cooperation in areas such as drone technology, sensors, underwater technology and 6G. The cooperation aims to strengthen both countries' defence forces and Europe's technological sovereignty, and has already begun practically at VTT's drone test centre in Oulu.

Technical Papers



[Design of MIMO antenna for 6G applications supported by fractal geometry](#)

Ashwini Kumar, Rajeev Kumar, Bright Keswani, Amit Kumar Jain, Pratish Rawat & Basudha Dewan, Faculty of Engineering and Technology, Poornima University, Jaipur, Rajasthan, Department of Electronics and Communication Engineering, B K Birla Institute of Engineering and Technology, Pilani, Faculty of Computer Engineering, Poornima University, Jaipur, Rajasthan, Department of Electronics and Communication Engineering, Manipal University Jaipur, Jaipur, Rajasthan, India

This paper presents a 2×2 microstrip patch MIMO antenna designed for future 6G wireless communications in the 7.125-8.4 GHz upper mid-band range. The antenna uses dual fractal geometry and a circular slot structure to improve bandwidth, gain, and overall performance. A partial ground plane further enhances bandwidth stability, achieving a wide operating range from 5.25 to 11.3 GHz with gains between 2 and 3.6 dB. The study evaluates key MIMO parameters such as ECC, CCL, TARC, and MEG, all within acceptable limits. The antenna is also compatible with several 5G NR bands and demonstrates strong potential for future 5G/6G applications.

[Artificial intelligence for next-generation 6G technologies and networks](#)

Yasin Emre Tok, Amine Gonca Toprak, Sumeye Nur Karahan, Oyku Berfin Mercan, Hurkan Mustafa Aydin & Mucahit Altintas, R&D Department, Turk Telekom, Ankara, 06000, Türkiye

The transition from 5G to 6G networks necessitates advanced solutions to manage the increased complexity and performance demands, making artificial intelligence (AI) and machine learning (ML) essential for achieving unprecedented data rates, low latencies, and enhanced connectivity. This paper provides a comprehensive survey of how AI/ML techniques are integrated into various 6G technologies, demonstrating their transformative role in optimizing network performance and enabling capabilities that traditional methods cannot achieve.

[Beyond 5G White Paper 6G Radio Technology Project Ver.2.0](#)

XGMF Forum

The XG Mobile Forum 6G Radio Technology Project has released the XGMF White Paper "Beyond 5G White Paper 6G Radio Technology Project Ver. 2.0", which summarizes the results of studies conducted by seven working groups (Terminal Collaborative Technology, Repeater, Metasurface, and RIS/IRS, Radio Propagation, Advanced MIMO, Wireless Sensing, AI and Digital Twin and Millimeter-wave Technology for Mobility Systems). Beyond 5G White Paper 6G Radio Technology Project Ver.2.0" is now available. (The version number of Millimeter-wave Technology for Mobility Systems is Ver. 1.0).

[A Comparative Benchmark of Scale-Up and Scale-Out MIMO Architectures for 5G and Prospective 6G Networks](#)

Samuel Otero Rebolo ORCID and *Victor Monzon Baeza*, Faculty of Computer Science, Multimedia and Telecommunications, Universitat Oberta de Catalunya (UOC), Rambla del Poblenou 156, 08018 Barcelona, Spain

This paper compares three scalable MIMO architectures for future 6G networks: centralized Massive MIMO, XL-Massive MIMO, and distributed Cell-Free MIMO. Using a unified simulation framework under identical urban conditions, the study evaluates throughput, spectral efficiency, coverage, interference, and energy efficiency across sub-6 GHz and millimeter-wave bands. Results show that XL-Massive MIMO achieves the highest throughput and spatial reuse in dense urban hotspots, while Cell-Free MIMO offers better coverage consistency and energy efficiency for wide-area deployments. The benchmark highlights the trade-offs between centralized and distributed architectures, providing valuable guidance for the design and deployment of next-generation 6G wireless networks.

[AI and foundation models pave the way for terahertz ultra-massive MIMO in 6G](#)

Wentao Yu, Hengtao He, Shenghui Song, Jun Zhang, Linglong Dai, Lizhong Zheng, Khaled B. Letaie G

This study explores how artificial intelligence, deep learning, and foundation models can overcome major challenges in terahertz ultra-massive MIMO (UM-MIMO), a key technology for future 6G networks. Terahertz UM-MIMO systems promise extremely high data rates and ultra-low latency but face issues related to computational complexity, channel modeling, and channel state information acquisition. The paper proposes three AI-driven research roadmaps: model-driven deep learning for efficient signal processing, CSI foundation models for unified transceiver design, and large language model applications for network optimization and autonomous management. The study highlights how these approaches can significantly improve performance, reduce complexity, and support both future 6G and existing wireless systems.

[Vision on Future Network Architecture, ATHENA](#)

SK Telecom

As the industry faces evolving dynamics including AI integration, service expansion, enhanced security requirements, and operational paradigm shifts, SK Telecom is charting its mid- to long-term network evolution strategy to drive operational efficiency, elevate customer experience, and unlock network monetization opportunities.



IEEE 6G Summit Dresden 2026



May 19–20, 2026 in Dresden, Germany

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European Wireless 2026

17 – 19 June in Rimini, Italy

The European Wireless 2026 conference (EW26) is a key venue for European and worldwide researchers to become acquainted with the latest trends in wireless communications and networking. This 31st edition of European Wireless will be held in Rimini, Italy, June 17-19, 2026. The conference is planned to be in person, hosting authors' presentations, and allowing for interactions and networking among the participants.

Berlin 6G Conference 2025

- The Annual Networking Event of the German 6G Program -

Organized by the 6G Platform Germany

01.-03. July 2025

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