MiFuture News

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

April 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.

The Evolution of Mobile Networks from 5G to 6G

April 01 - Owing to the ever-increasing demand for faster communication networks, the rise of a new 6G technology is expected in the near future. The 6th-generation mobile communication network is expected to further improve and enhance the already existing networks.

U.S. Accelerates 6G for 2029 Launch; Expert Calls It Real Innovation

April 04 - An event titled 'Policy Outlook for Securing 6G (6th Generation Mobile Communication) Momentum,' hosted by the U.S. political media outlet Politico on the 18th of last month (local time), shook the global telecommunications industry. According to the telecommunications media outlet Pierce Network, Nate Tibbitts, Qualcomm Senior Vice President, revealed at the event that "the U.S. Trump administration wants to provide 6G services early in time for the 2028 Olympics."

NVIDIA, Marvell Team Up to Accelerate AI-RAN & 5G/6G Networks

April 01 - NVIDIA and Marvell Technology announced a strategic partnership to connect Marvell to the NVIDIA AI factory and AI-RAN ecosystem through NVIDIA NVLink Fusion™, offering customers building on NVIDIA architectures greater choice and flexibility in developing next-generation infrastructure.

Future intelligent networks move towards 6G era

April 01 - Digital infrastructure remains central to modern society, with mobile networks forming the backbone of global connectivity and technological progress. According to Ericsson, research efforts are increasingly focused on ensuring that today’s 5G systems evolve into more advanced and intelligent network platforms.

New Carbon Nanotube Coating Could Supercharge 6G Technology

March 28 - Ultrathin nanotube films absorb terahertz waves, boosting 6G performance and enabling advanced shielding and medical applications.

Unfortunately, It's Time to Talk About 6G. Here's What You Need to Know

April 03 - At MWC Barcelona, a parade of industry executives showed up to herald the advent of 6G and its ability to infuse AI throughout a wireless network. "If you actually believe in the AI revolution, 6G will be required," Qualcomm CEO Cristiano Amon said at the keynote that opened the second day of the conference. "Resistance is futile," he joked.

LG Uplus, LG Electronics Begin Research on 6G Semantic Communications and PQC

April 03 - LG Uplus Corp. said on April 2 it has partnered with LG Electronics Inc. to secure key pre-6G technologies, focusing on semantic communications and post-quantum cryptography (PQC).

The 6G Readiness Checklist: A Glimpse into the Future of Mobile App Development

March 31 - The Australians are not new to fast-changing technology. We are living the connected world, starting with the introduction of the National Broadband Network and almost everywhere 5G. However, even though 5G is yet to establish itself in the regions, the world is already looking at the horizon. 6G is on its way. It is believed to be commercialized by 2030, yet the foundation should be drawn today by the experts in iOS mobile app development.

6G Could Introduce New Cybersecurity Vulnerabilities, Report Finds

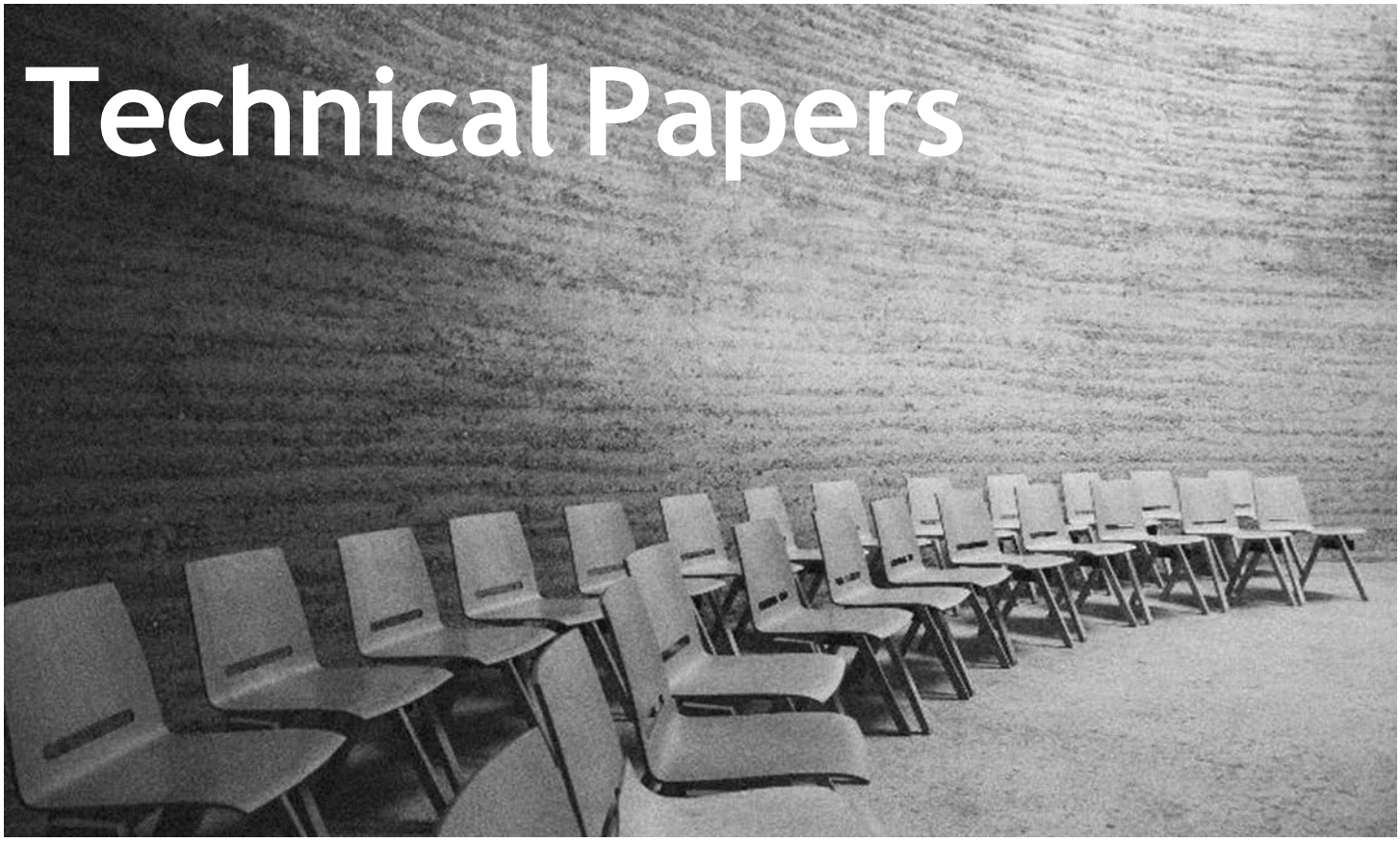
April 03 - A Federal Communications Commission advisory group warned that next-generation 6G networks could introduce significant cybersecurity and reliability risks, as increasing reliance on software, artificial intelligence, and cloud-based infrastructure expands potential vulnerabilities.

SK Telecom Co., Ltd. Expands 6G Strategy Through AI-RAN Partnership

April 03 - SK Telecom Co., Ltd. is broadening its 6G strategy around AI-RAN, with partnerships spanning NTT DOCOMO, Ericsson and Samsung Electronics Co., Ltd., as the evolution path for next-generation wireless networks becomes clearer.

Mobile Tech Breakthroughs: China eyes early commercialization of 6G by 2030

March 29 - Chinese experts say the country will commercialize the next-generation of mobile communication technology 6G as early as 2030. At the Zhongguancun Forum underway in Beijing, CGTN's Liu Jiaxin reports on how 6G will be fundamentally different from 5G — not just faster, but AI-native.



6G Architectural Foundations and AI Native Solutions for Future Connected Robotics

One 6G

The joint euRobotics–one6G whitepaper explores how 6G could transform robotics and automation through a four-plane architecture covering robotic services, intelligent services, network services, and data governance. It presents 6G as a shared foundation providing communication, sensing, computing, and intelligence to robots across sectors such as industry, healthcare, logistics, smart cities, defence, and space. The paper highlights interoperable functions spanning robots, edge, and cloud, including ultra-reliable low-latency communication, AI-native orchestration, semantic communication, federated learning, and secure data governance. Through case studies, it identifies key capabilities, performance needs, and current gaps, while proposing a roadmap towards AI-native, standardised, and certifiable 6G-enabled robotic systems.

Key Enabling Features for the Evolution of vRAN and the Path to AI-RAN

SK Telecom & NTT DOCOMO

This white paper updates the first joint vRAN paper by SK Telecom and NTT DOCOMO, reviewing recent progress in the vRAN ecosystem while noting that key virtualization benefits are still not widely deployed. It identifies three essential features to unlock vRAN's full value for mobile network operators: strict hardware/software separation to reduce vendor lock-in and simplify upgrades, resource pooling to improve efficiency and lower costs, and support for AI computing so vRAN can evolve into a platform for both network and AI workloads. Together, these capabilities are presented as critical to proving vRAN's business value and paving the way for AI-RAN and future 6G networks.

From data mess to AI-ready data mesh

Ericsson

Over the coming decade, telecom landscape will be shaped by the ability to fully harness data possible. A key challenge will be managing high volumes of data from disparate sources, securely transforming, and bringing it to a state of readiness for a wide range of consumers. This document captures thought leadership and a reference architecture for a future-proof data management system that scales elastically, supports seamless data integration, can be deployed in a hybrid manner, and is purpose-built for AI-native intelligence and autonomous network and operations.

Co-creating a cyber-physical world

Ericsson

Ericsson's 6G vision, first introduced in 2020, remains pivotal for transforming business and society in the 2030s through secure, efficient, and sustainable communication services. As 6G development progresses into regulation and standardization, communication service providers are focusing on addressing key challenges and setting goals for successful collaboration.

Towards 6G-enable eHealth

6G SNS

This white paper shows how B5G and 6G can significantly improve European healthcare by enabling more accessible, resilient, and effective eHealth services. It presents validated use cases across surgery, remote monitoring, home rehabilitation, contactless sensing, and emergency response. Trials demonstrated that these technologies can meet demanding clinical requirements, with very low latency, high availability, strong security, and interoperability with European health data standards. The paper also highlights wider benefits, including better access to specialist care, lower cognitive load for professionals, greater patient satisfaction, reduced carbon emissions, and potential healthcare cost savings. Overall, it positions 6G-enabled eHealth as a foundational platform for future care delivery.

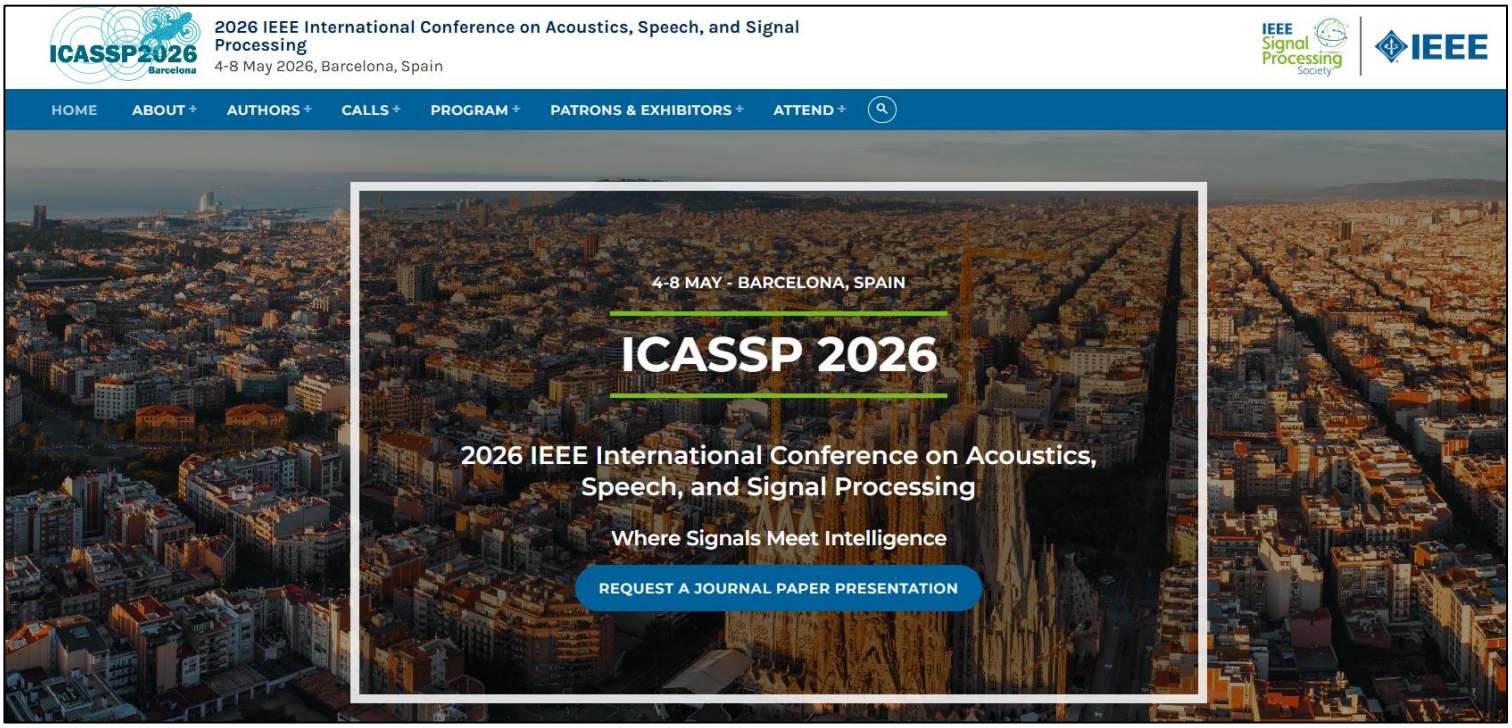
Near-field Communications for 6G: Ten Key Issues

Linglong Dai, Yajun Zhao, Zhuo Xu, and Mengnan Jian, Linglong Dai, Yajun Zhao, Zhuo Xu, and Mengnan Jian

Traditional wireless communication systems from 1G to 5G have primarily relied on the assumption of electromagnetic planar waves. Future 6G networks, with their larger antenna apertures (whether centralized or distributed), will exhibit more pronounced near-field characteristics across high, medium, and low-frequency bands. The exploration and utilization of near-field spatial resources have the potential to unlock a new physical spatial dimension for future 6G wireless networks. Both industry and academia are making significant strides in advancing near-field theoretical research, achieving breakthroughs in key technologies, and engaging in discussions on standardization and engineering implementation.

Near-field communications are seen as a crucial enabling technology to meet the growing demands for higher data rates, high-precision sensing, and wireless power transfer for the Internet of Things in future 6G networks. As such, near-field communications are positioned as a promising candidate for key air-interface technologies in 6G wireless systems. In this ComSoc Technology News (CTN), we will explore several core issues related to near-field communication in a friendly question-and-answer style.


Events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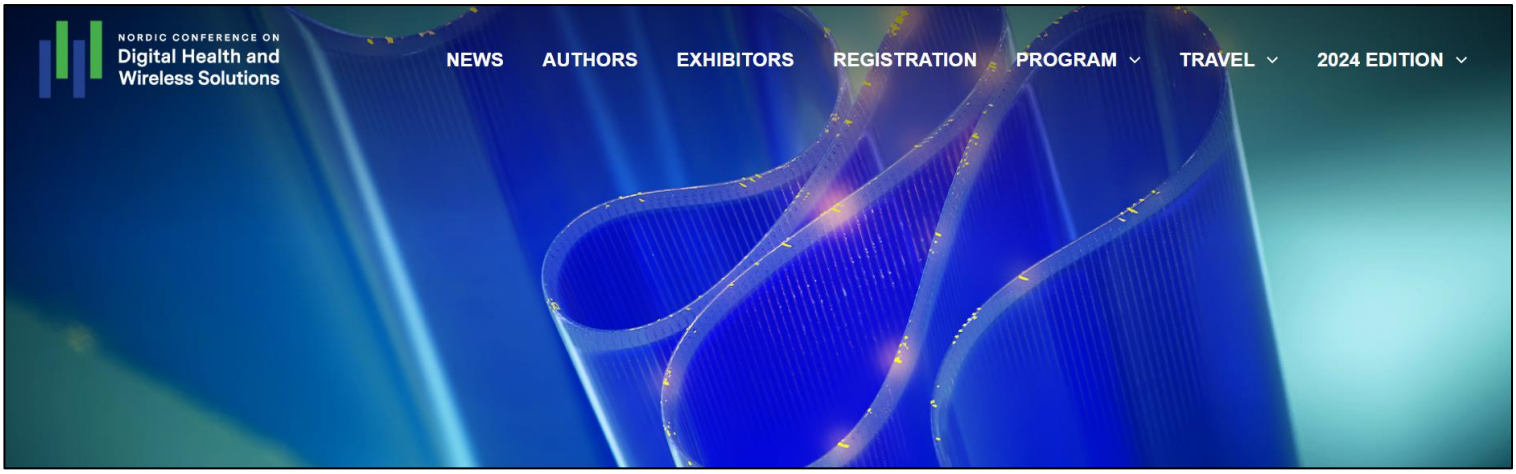
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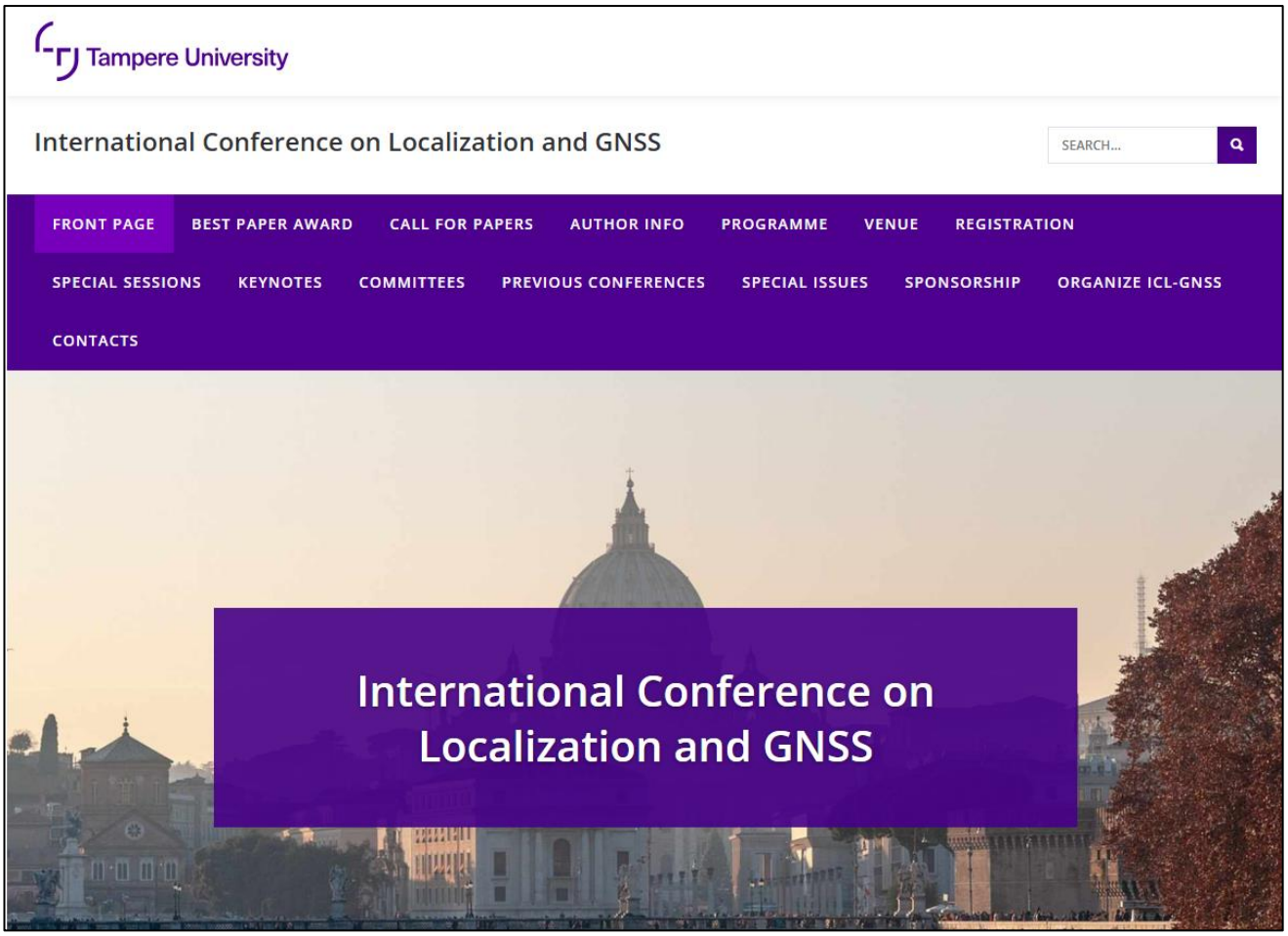
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