

Symposium on Emerging Technologies for 5G and Beyond (July 17-18, 2021)



Organized By



Department of Electrical
Engineering
Indian Institute of Technology
Patna
Bihta, Bihar 801106

Sponsored By



Ministry of Electronics and
Information Technology
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About IIT Patna

Indian Institute of Technology Patna is one of the new IITs established by an act of parliament on August 06, 2008. IIT Patna is an autonomous institute of education and research in science, engineering, and technology located in Patna, India. It is recognized as an Institute of National Importance by the Government of India. IIT Patna is part of the National Knowledge Network (NKN), which provides high-speed core networking for all the knowledge-related institutions in India to integrate all of India's scientific community seamlessly.

Symposium Overview

The Symposium aims to explore emerging technologies that will make 5G a reality and address critical driving technologies behind the 5G New Radio (NR) system designs, focusing on solutions to support 5G new services with high reliability, energy-saving requirements, and massive connectivity. A wide range of applications and services are expected to be enabled by the introduction of 5G. 5G will serve as the enabling architecture and standard for Internet of Things (IoT) systems, Low Power-Wide Area Networks, and high-speed cellular systems.

5G is expected to utilize and exploit new technologies, techniques, and protocols at the different communication layers, including Software-Defined Radio, Massive Antenna Systems, Beamforming, MIMO Systems, mm-

Wave, and Optical Communications utilizing higher frequency bands.

5G New Radio technologies are also featured in enhanced mobile broadband (eMBB), enhanced machine-type communication (eMTC), and critical communications (URLLC). These technologies will enable Machine-to-Machine (M2M), Device-to-Device (D2D), and Device-to-Everything (D2E) communications.

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(Director, IIT Patna)

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Dept. of EE, IIT Patna

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Registration

Students, Research Scholars, Faculties, and Industry Personnel those actively involved or interested in Signal Processing and Wireless Communication research and development are encouraged to apply. **Registration is free**, and confirmation will be on a first-come, first-served basis.

For any queries contact:

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