Tech Talk

Gear up for the Next Tech Talk in the Series

"Design of Indigenous 5G Cellular Network and it's Evolution to Cell-Free Architecture"

by
Prof. Rohit Budhiraja
IIT Kanpur

21st September 2022 | 5:00pm to 6:00pm

Don't forget to nominate yourself before **16th Sept 2022 EOD** using the embedded link.

About Presenter:

Prof. Rohit Budhiraja is currently an Associate Professor at IIT Kanpur, where he leads the design of indigenous 5G network. He is also currently leading the '5G and beyond standardization project' from IIT Kanpur. He received his MS and PhD degrees in Electrical Engineering from IIT Madras in 2004 and 2015, respectively.

From 2004 to 2011, he worked for two companies where he designed hardware and software algorithms for WiMAX and LTE-based cellular systems, from scratch. His theoretical interests are in analyzing and optimizing state-of-the-art wireless systems.

Click here to know more about Prof. Rohit Budhiraja

Title	Date	Time	Synopsis
Design of Indigenous 5G Cellular Network and it's Evolution to Cell-Free Architecture	21st Sept 2022 Wednesday	5:00pm to 6:00pm (via Knox Meeting)	A fully indigenous 5G cellular network was recently designed under the ambit of a project titled "5G-Indigenous End-to-End Test bed", funded by the Department of Telecommunications (DoT), Govt of India. The hardware and software for different subsystems of this 5G cellular network were built from scratch across five institutions for both Sub-6 GHz and mmWave bands. The session will touch upon the cloud radio access network architecture based on which our 5G network is designed, and will provide insights on its advantages, and some of the engineering challenges we faced while designing it. We will also discuss cell-free architecture which is being investigated for 5G and beyond systems, and how our 5G network architecture can enable it.

Prof. Rohit Budhiraja
Presenter

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