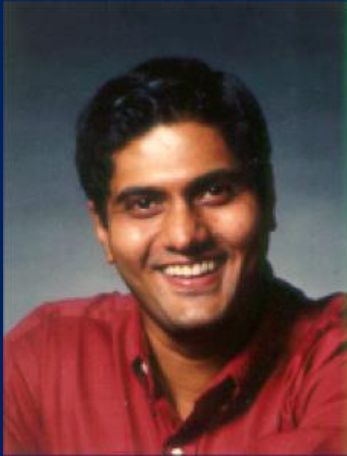


InRaSS Colloquium Series

9th Talk (3rd December, 2023 18:00 – 19:00 IST)

Webinar on:



Five Generations in Roughly Five Decades - The Rapid March of Mobile Wireless Technology

Subramanian (Vasu) Vasudevan

Senior Research Scientist at Nokia Bell Labs Solutions Research, Morristown, New Jersey, United States

It has taken less than five decades from early research on the first generation of cellular wireless to broad commercial deployment of the fifth generation. Starting from delivering just narrowband voice, broadband video is available today to most end users. The data rates delivered to wireless users have also gone up in this time period by five orders of magnitude. During this talk, I want to call out the paradigm changing ideas – from the cellular concept itself, to ideas and discoveries in multiple-access communications, coding, error control, and data scheduling, and finally MIMO technology – that undergird this evolution. Communication technology over this period has also been the beneficiary of Moore’s law as well as the administrative and regulatory environment for spectrum allocation. I’ll cover salient developments in these areas that have helped sustain the pace of progress.

Organised by: Indian Radio Science Society
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Webinar Link: <https://www.youtube.com/watch?v=HcwUeCpOdaM>