School of Electronics Engineering

Department of Communication Engineering

IEEE ComSoC Distinguished Lecture

Topic: Network Slicing in 5G and Beyond: The Holy Grail of 5G and Beyond 5G

Abstract:

We introduce the concept of network slicing (NS) and present an overview of its current status along with a brief introduction of NFV and SDN as enabling technologies. Techno-Societal-Economic drivers of the NS are discussed. A number of key research and deployment challenges are discussed . This is followed by a discussion of the positive implications of NS to bridge the digital divide and present the business drivers for the infrastructure providers and the service providers.

Date: 4th October, 2023

Time: 3PM to 4.30 PM

Venue: Gallery II (Technology Tower)

Coordinators: Dr Renuga Devi S and Dr Thanikaiselvan V

Speaker Profile

Dr Sudhir Dixit
IEEE ComSoc Distinguished Lecturer
Senior Fellow, Basic Internet Foundation, USA
Docent, University of Oulu, Finland

(https://www.comsoc.org/sudhir-dixit)

Sudhir Dixit is currently a Senior Fellow and Evangelist of Basic Internet at the Basic Internet Foundation in Norway and heads its San Francisco office. He has over 30 years of experience in computer networking and telecommunications, and related fields. From 2015 to 2017 he was the CEO and Co-Founder of a start-up, Skydoot, Inc, in the cloud-based and collaboration space. From December 2013 to April 2015, he was a Distinguished Chief Technologist and CTO of the Communications and Media Services for the Americas Region of Hewlett-Packard Enterprise Services in Palo Alto, CA, and prior to this he was the Director of Hewlett-Packard Labs India from September 2009. Prior to joining HP Labs Palo Alto, Dixit held a joint appointment with the Centre for Internet Excellence (CiE) and the Centre for Wireless Communications (CWC) at the University of Oulu, Finland. From 1996 to 2008, he held various positions with leading companies, such as with BlackBerry as Senior Director, with Nokia and Nokia Siemens Networks in the United States as Senior Research Manager, Nokia Research Fellow, Head of Nokia Research Centre (Boston), and Head of Network Technology (USA). From 1987 to 1996, he was at NYNEX Science and Technology and GTE Laboratories (both now Verizon Communications) as a Staff Director and Principal Research Scientist.

Dixit has 21 patents granted by the US PTO and has published over 200 papers and edited, co-edited, or authored eight books published by Wiley, Artech House and Springer. He is presently on the editorial boards of IEEE Spectrum Magazine, Cambridge University Press Wireless Series and Springer's Wireless Personal Communications Journal and Central European Journal of Computer Science (CEJS). He is Chairman of the Working Group C on new directions in networking and communications at the Wireless World Research Forum (WWRF), where he is also a Board Member. From 2010 to 2012, he was an Adjunct Professor of Computer Science at the University of California, Davis, and, since 2010, he has been a Docent of Broadband Mobile Communications for Emerging Economies at the University of Oulu, Finland.

A Life Fellow of the IEEE, IET, and IETE, Dixit received a Ph.D. degree in electronic science and telecommunications from the University of Strathclyde, Glasgow, U.K. and an M.B.A. from the Florida Institute of Technology, Melbourne, Florida.