

Research Colloquium on 03-08-2019

1. Dr. B. Sivakumar had given the presentation on “Developments in Lower Limb Mobile ExoSkeletons”. In the presentation discussed about the design of support device for lower limb upto 40 Kg. Discussed the different devices exist and technology used for Exoskeletons.

2. Mr. G. Venkata Rao had given the presentation on “Effect of Interfacial Layer on Leakage Currents in Germanium MOS Devices”. In the presentation the importance of oxide thickness is discussed. Discussed the importance of germanium and high k materials in forming oxide layer for low leakage currents.



Mr. B. Siva Kumar



Mr. G. Venkata Rao



Research Group

Research Colloquium on 10-08-2019

1. Mr. M. Siva Sankara Rao had given a presentation on "Basics of Wind Profiler Signal & Data Processing. In the presentation different scattering mechanisms with respect to atmospheric and non-atmospheric targets are discussed. Discussed about signalling aspects in atmosphere and how to evaluate return signals.
2. Smt. B. Rajeswari has given a presentation on "Arterial Input Function Measurement". In the presentation discussed about meaning and need for measuring AIF. Also discussed different arteries and the place of artery for measuring AIF.



Mr. M. Siva Sankara Rao



Smt. B. Rajeswari

Research Colloquium on 17-08-2019

1. Mr. V. Ravi sekhar Reddy had given a presentation on "Miniaturised Ratrace coupler with Harmonic Suppression". In the presentation discussed about importance of Ratrace coupler in antenna as feed forward networks, mixers. To reduce unwanted harmonics a new design using stepped line shunt tapped stub unit is discussed. It is concluded that the proposed design provides harmonic suppression upto $12f_0$ with 70 % size reduction.
2. Mr. B.Y. V. N. R. Swamy had given a presentation on "Design of Compact Wide-band MIMO antenna with improved isolation by decoupling structure made by EBG for wireless applications". In the presentation MIMO antenna for S, C and X band applications are discussed. Also the importance of EBG in providing good return loss, radiation pattern and efficiency is discussed.
3. Mr. Ch. Siva Rama Krishna had given presentation on "Next Generation Cellular Networks and Green Communication". In the presentation discussed about future generation 5 G networks for providing reduced latency and high data rates. In the presentation Massive MIMO and spectrum harvesting are discussed.



Mr. V. Ravi Sekhara Reddy



Mr. B.Y. V. N. R. Swamy



MR. Ch. Siva Rama Krishna

Research Colloquium on 31-08-2019

1. Smt. T. Kalpana has given a presentation on “. In the presentation discussed about structure of Carbon Nano Tubes and the types of carbon nano tubes. Discussed in detail about notation of Properties and applications of carbon Nano-Tubes.
2. Mr. R. Harikishan had given a presentation on “Reliability-Aware Test Methodology for Detecting Short-Channel Faults in On-Chip Networks”. In the presentation the methodology for for detecting both intra and interchannel short faults and for identifying the faulty channel-wires connected to a node.



Mr. M. Siva Sankara Rao



Mr. R. Harikishan