Channel Navigation in IPTV (Internet Protocol TeleVision

1. PI information -MSK Manikandan, Asso prof, ECE Dept
2. Project Duration and cost- Three years, Rs.10,30,800/-
3. Equipment purchased and usage-
   Equipments

   (IPTV Set Top Box(STB),

   IP streamer,

   Smart Electronic Device,

   TV content head
4. Project Summary

Internet Protocol Television (IPTV) is a new form of television technology that uses the existing network to deliver entertainment grade audio-video content to customers. One of the biggest challenges faced by IPTV is the channel switching delay due to low bandwidth in the end links. With the increase in the number of channels, searching for one's desired channel becomes very difficult. Hence reducing the seek distance between channels improves the Quality of Experience (QOE) of an IPTV user. The objective of this project is to develop a novel method of grouped frequency-interleaved ordering for reducing the seek distance by grouping similar category channels and ordering them.

5.
6.

7. Publications

V S Janani,M S K Manikandan, "Trust-based hexagonal clustering for efficient certificate management scheme in mobile ad hoc networks" Indian Academy of Sciences,Sadhana, Springer,Volume 41, Issue 10, pp 1135–1154,October 2016

V. S. Janani, MSK Manikandan, "Genetic-IDGKA: Genetic ID-Based Group Key Agreement Protocol forLarge MANETs"Vol. 18 , No. 3, pp. 313–333, DOI : 10.1080/09720529.2015.1023535,Taylor & Francis,2015

T. Sangeetha, M. S. K. Manikandan, L. Rajesh, "Link-Disjoint Interference-Aware Admission Control and QoS Routing Protocol for Mobile Adhoc

Networks", Indian Journal of science and Technology, Vol 8, issue 24 September 2015
Selvi PF, Manikandan MSK. Ant based multipath backbone routing for load balancing in MANET. IET Communications. 2017 Jan 5;11(1):136-41 (Impact Factor: 1.061)

6.PhD/ ME produced along with titles.

PHD Produced

1. **Ant Based Reliable Backbone Construction For Multipath Routing In Mobile Ad Hoc Networks**
2. **Design And Analysis Of Distributed Protocols For Managing The Publickey Infrastructure Framework In Mobile Ad Hoc Networks**