

Conclusions

- Allows for error-free content delivery over satellite
- Reduces delivery time and overall satellite resources
- Transparent to network layer and above
- Adaptive to variant channel conditions and highly scalable

Instituto de Telecomunicações - Porto

IT Porto is a research center at the University of Porto, affiliated with the Instituto de Telecomunicações, a national institute with six different locations and about 190 researchers with a Ph.D working on a wide range of topics related to communications engineering. IT-Porto was launched in January 2007 and has since grown steadily to a full bodied institute with more than 90 members from 17 different countries, including more than 20 PhD researchers, and a strong presence both in the School of Sciences (FCUP) and the School

of Engineering (FEUP). By focusing on key competitive areas that span fundamental research in information theory, design of communication protocols, algorithms for multimedia processing and, more recently, security and human-computer interaction, IT Porto is well poised to become an international center of excellence in information and communication technologies, as well as in training high-potential young researchers from various parts of the world.

Improves efficiency of multi-beam satellites with conventional

Overall bandwidth gains of 30% with dual beam reception terminals

payloads and can complement beam-hopping techniques

Transparent to network layer and above

and 50% with four-beam reception terminals





