

Advances in Holographic-Type Communications

Abstract:

This talk will give an overview of video streaming technologies over telecommunication networks, while also taking the important evolution towards network softwarization into account.

The importance and the opportunities provided by volumetric media delivery will be outlined by means of several examples.

The most appropriate approach for volumetric media delivery and the various challenges and techniques will be highlighted next.

Finally, an overview of research challenges and opportunities will be presented to stimulate further collaborative research.

Short bio:

Filip De Turck is a professor at the department of Information Technology (Intec) of Ghent University and imec, Belgium with expertise in communication software, network resource management, adaptive multimedia service delivery and next generation video delivery platforms. In this research area, he is involved in and successfully completed many research projects with industry and academia, served as Chair of the IEEE Technical Committee on Network Operations and Management (CNOM), former chair of the Future Internet Cluster of the European Commission, is on the TPC of many international network and service management conferences and workshops and serves in the Editorial Board of several network and service management journals. Prof. Filip De Turck regularly organizes international workshops on the above mentioned topics, served as Editor-in-Chief of IEEE Transactions on Network and Service Management (TNSM), and steering committee member of the IEEE/IFIP Network Operations and Management Symposium (NOMS), the IFIP/IEEE Integrated Network Management (IM) Symposium, the IEEE Conference on Network Softwarization (IEEE NetSoft) and the IFIP/IEEE Conference on Network and Service Management (CNSM). He also served as chair of the IEEE SDN Initiative Conference Committee, which coordinates initiative IEEE events and conferences on Softwarized Networks. Prof. Filip De Turck was named a Fellow of the IEEE (Institute of Electrical and Electronics Engineers) for outstanding technical contributions to network resource management and adaptive service delivery and serves as a ComSoc Distinguished Lecturer. He is currently (co-)author of over 750 publications. He received the IEEE ComSoc Dan Stokesberry Award 2021 for particularly distinguished technical contributions to the growth of the network operations and service management field.