

Emerging Technologies for Future Tele-Communication

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Abstract

Telecommunication has become an integrated part of people's work and life. In this tutorial, we aim to provide an overview of some recent advances in technologies that enable more immersive telecommunication applications. Key topics covered by this tutorial include sound source localization from compact microphone arrays, 3D spatial sound and multi-channel echo cancellation, various real-time video processing techniques for enhancing conferencing experiences, and a few explorations on depth sensors in tele-communication applications.