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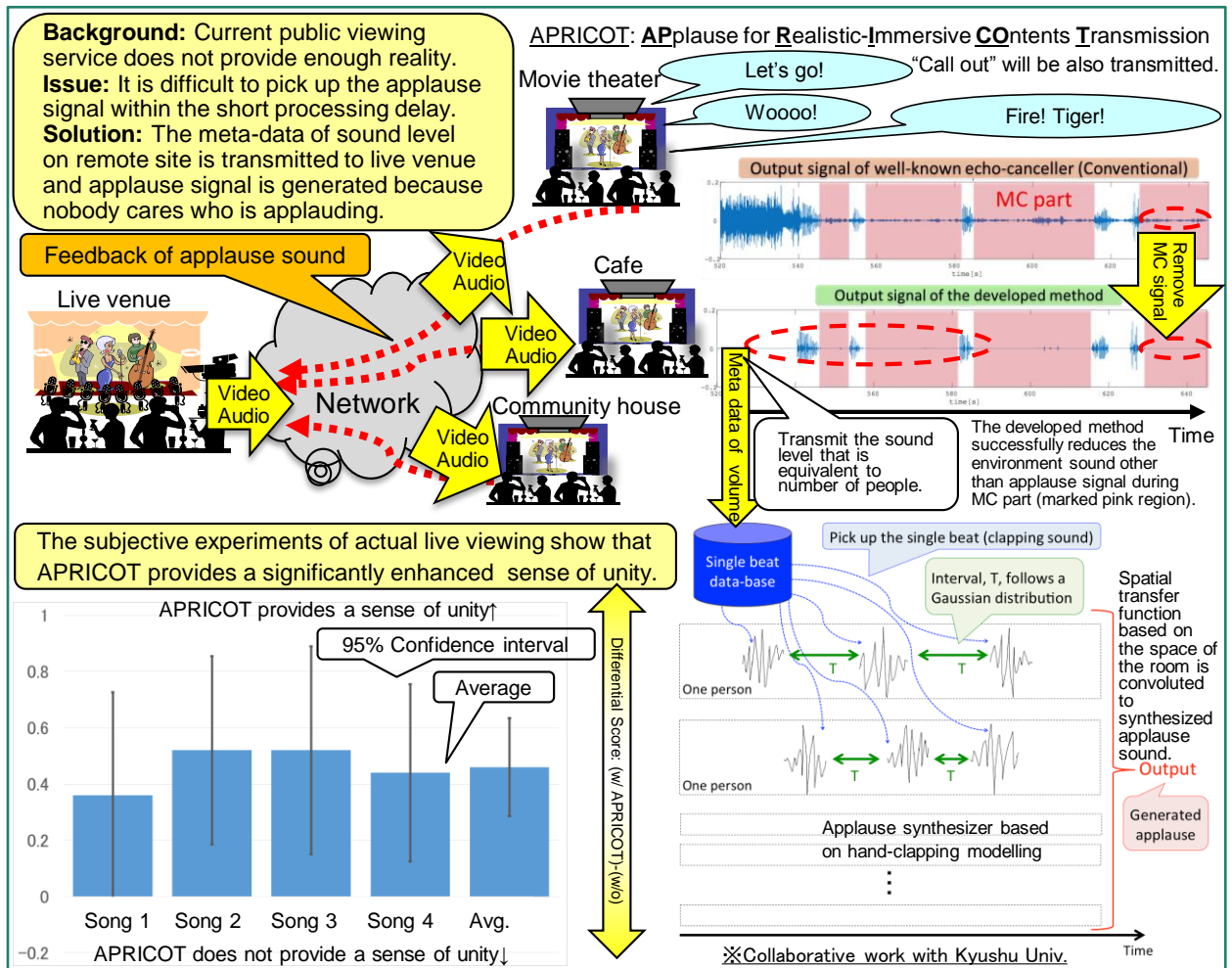
Sharing enthusiasm between remote sites

- Applause coding for bi-lateral immersive sharing -



Abstract

Live performances are increasingly appreciated using popular commercial audiovisual transmission systems, such as live viewing systems. We developed a reality enhancement method for the live viewing system that transmits applause sound which occurred at the viewing site to the live venue. We named it APRICOT (APplause for Realistic-Immersive COntents Transmission) system. This presentation shows an applause sounds detection, transmission, and generation system. At actual live viewing, the devised system successfully detected applause sounds by using real-time signal processing approach. Then, the sound level is converted into the meta-data, which is transmitted to live venue. At the live venue, natural applause sound is generated by using recorded hand-clapping sound seeds. This applause synthesizer is based on the hand-clapping model. The subjective experiments show that APRICOT system achieves more realistic live viewing services.



References

- [1] K. Kawahara, A. Fujimori, Y. Kamamoto, A. Omoto, T. Moriya, "Implementation and demonstration of applause and hand-clapping feedback system for live viewing," in Proc. 141st Audio Engineering Society (AES) Convention, 2016.
- [2] M. Nishikawa, K. Kawahara, Y. Kamamoto, A. Fujimori, A. Omoto, T. Moriya, "Extraction of applause from a sound field for ambient transmission in a live viewing system," in Proc. IEEE Global Conference on Consumer Electronics (GCCE), 2017.

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