Ultra-low latency distributed display processing technology

IOWN **Evolution** On-Demand Type All-Photonics Network

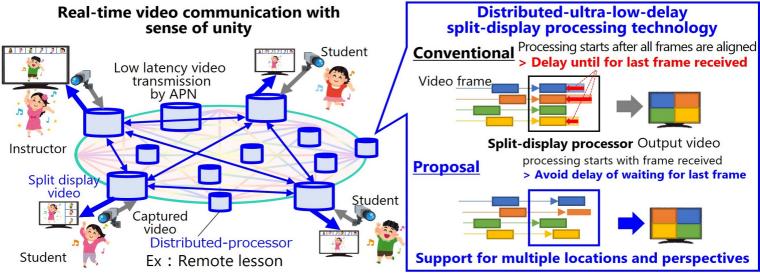


Background

The need of remote real-time lesson for dance and ensemble via networks is growing . However, it is hard to realize sense of unity in remote performances due to the latencies involved in video transmission and the screen-splitting process of multiple videos.

Summary

With our proposed viewer, we created the remote communication system displaying videos of multi-point with a delay of less than 20 ms. Demonstrations using this system have revealed the feasibility of remote communication without the stress of video delay.



| Features

- Reduction of waiting time for video-frame buffering by FPGA-based stream screen-split processing
- Distributed processing enables equipment to be deployed at each location to support multiple locations and multiple viewpoints
- Uncompressed video transmission using the low latency and wide bandwidth of optical fiber transmission

Future_benefits

Remote visual communication without delay and with sense of unity can be achieved even in remote locations by combining this technology and the features of the IOWN.

Exhibiting Company

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APN: All-Photonics Network