

Human centric digital twins services

Creation of Digital Twin Space for Virtual Exploration via 360-degree Video

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Summary :

This project aims to create a movie map using 360-degree videos that allows users to virtually explore a certain area, experience actual events, and interact with objects and avatars. In this research, we focus on building technologies for the following.

- (1) Virtual exploration by composing 360-degree videos: We build a fundamental technology that processes 360-degree videos captured along streets in particular commercial or tourist areas and construct movie maps in which users can freely move around. The right is an initial prototype.
- (2) Fusion of live and other new videos into movie map: Beyond reproduction of archived videos, we integrate new videos into movie map such as live videos that show the actual situation of local spots.
- (3) Interaction in movie map: We incorporate objects and avatars in the movie map to manipulate them in 360-degree video space.
- (4) A new movie map prototype with fusion and interaction.

<https://moviemap.org> (tentative)

