Virtual Presentation and Animation of Qingming Festival by The Riverside

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Multi-projector display wall based digital storytelling system?

- In this paper, we present a novel method to display a famous ancient Chinese painting for the purpose of cultural heritage preservation.

Related Works

- made a summary of the application of virtual reality and digital media to digital heritage preservation
- the key techniques of digital museum on the internet
- the prototype system of an immersive virtual museum
- a large screen projection system using 3 projectors to display an ancient street in Hangzhou
- many IBR applications to digital museum
- a novel method to tour into the picture by making animation from a single picture using spidery mesh.
Projection system

- Display wall: 6 meters high and 12 meters wide
Creation of Animation

- To make the objects in the painting movable, we extracted them from the 2D background and animate them.

- If the objects are characters, including humans and animals, we use skeleton-based character animation to drive them.

Storytelling Design

- In order to make this static painting attractive and charming, the technology of digital storytelling is used.

- So a script called Qingming Story is composed elaborately by us to show the magnificent scene along the river.
Conclusions

- In this system, 15 projectors, 16 high-performance PCs and a multichannel switch are used for projecting a famous ancient Chinese painting on a very large display wall.

- Our system can only play animation video and there is no interactive capability.