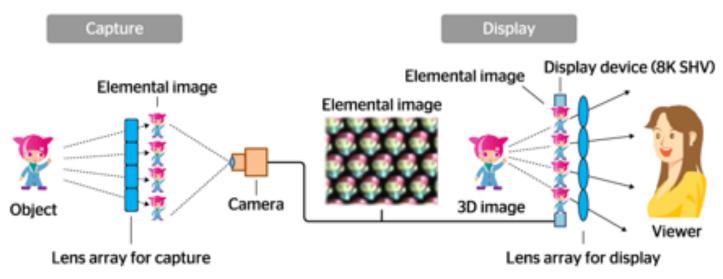


Demonstrations in Workshop on Coding Technologies for Immersive Audio/Visual Experiences





Basic configuration



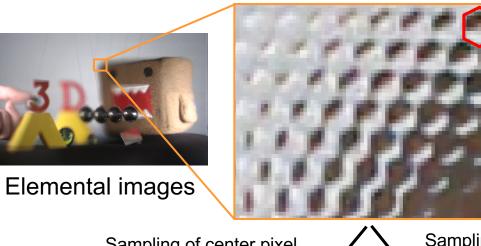
Features Real-time capture and display of moving 3D images Real objects (not computer graphics) are captured and displayed Full-parallax images

Problem Integral 3D system requires huge number of pixels

Elemental image



1



One elemental image

Sampling of center pixel in each elemental image



Center view

Sampling of left pixel in each elemental image



Right view



Realtime interactive demo with 3DoF+ content

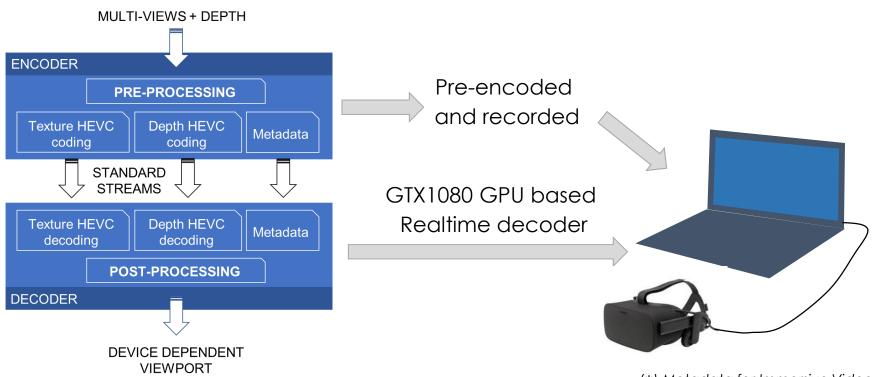
Julien Fleureau, Renaud Doré

MPEG127

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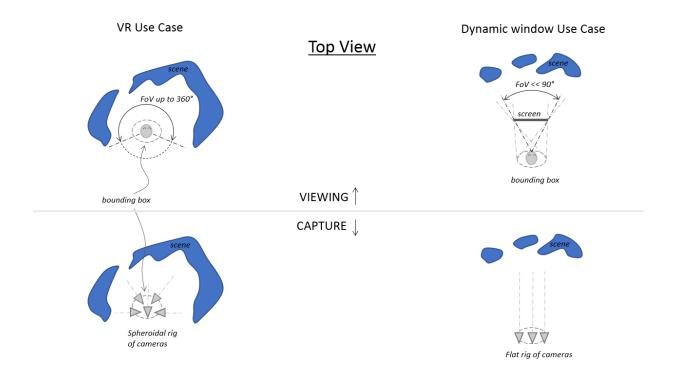
A demo compliant with MIV (*) specification



(*) Metadata for Immersive Video

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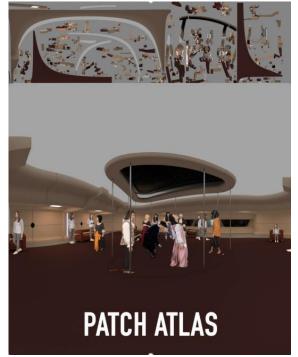
The demo renders viewport on HMD or screen



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Volumetric Technique in a nutshell

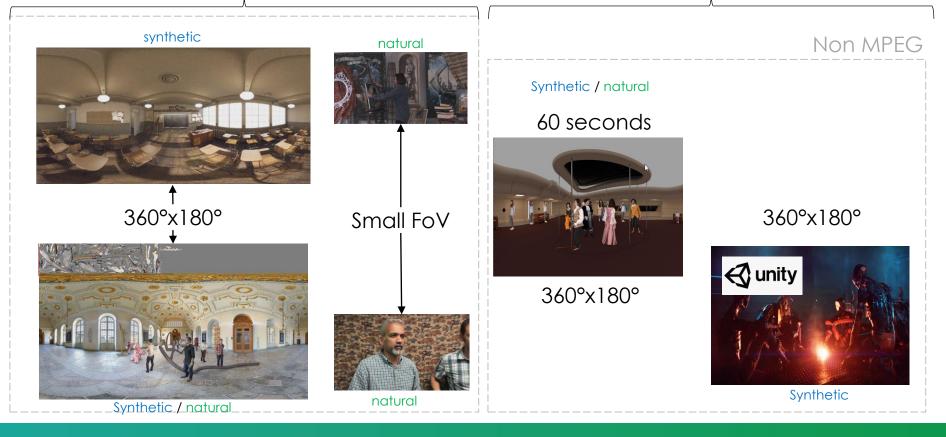
- Keyword= patch atlas
- Obtained through non normative
 Scene
 decomposition
- A switch in the demo enables the patch atlas visualisation



+ same For Depth

10 seconds CTC MPEG Contents shown on screen

+ extended contents shown on HMD



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Tsinghua Single-focused Plenoptic Camera

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Tsinghua Single-focused Plenoptic Camera is designed by Xin Jin's lab.

DEMONSTRATION OF A SIMPLE FREE-VIEWPOINT TELEVISION SYSTEM

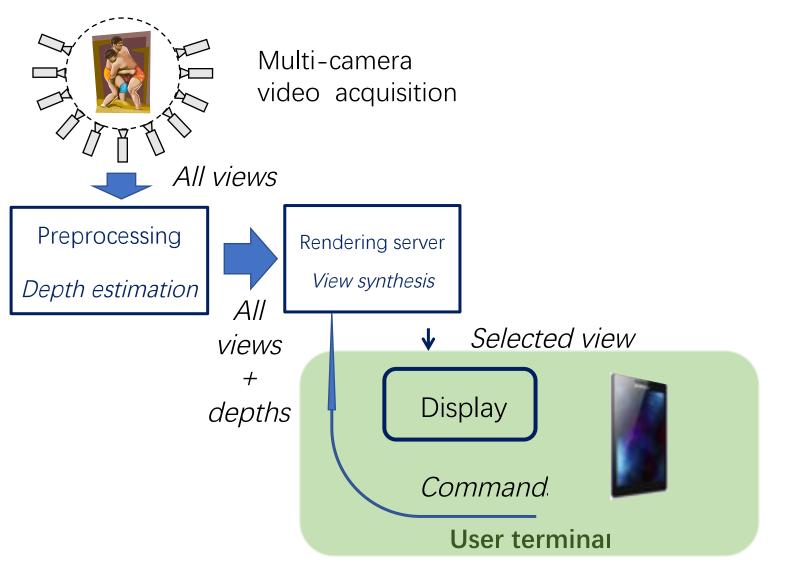
Marek Domański, Adrian Dziembowski, Tomasz Grajek, Adam Grzelka, Krzysztof Klimaszewski, Dawid Mieloch, Robert Ratajczak, Olgierd Stankiewicz, Jakub Siast, Jakub Stankowski, Krzysztof Wegner



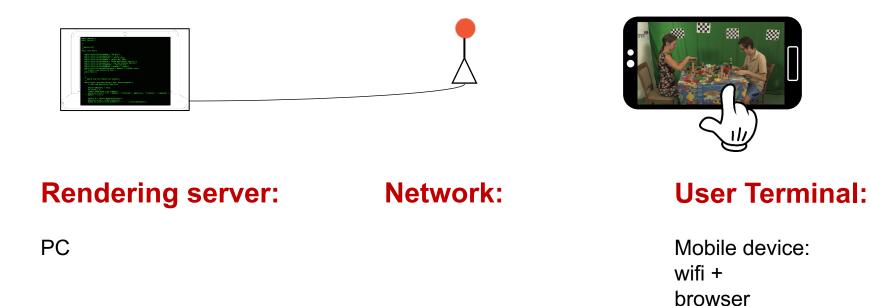


Poznań University of Technology Chair of Multimedia Telecommunications and Microelectronics Poznań, Poland

View synthesis in rendering server (edge server)



Rendering server - demo



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Enjoy in Demos!