

Panoramic Video Streaming via Edge-Computing and ICN

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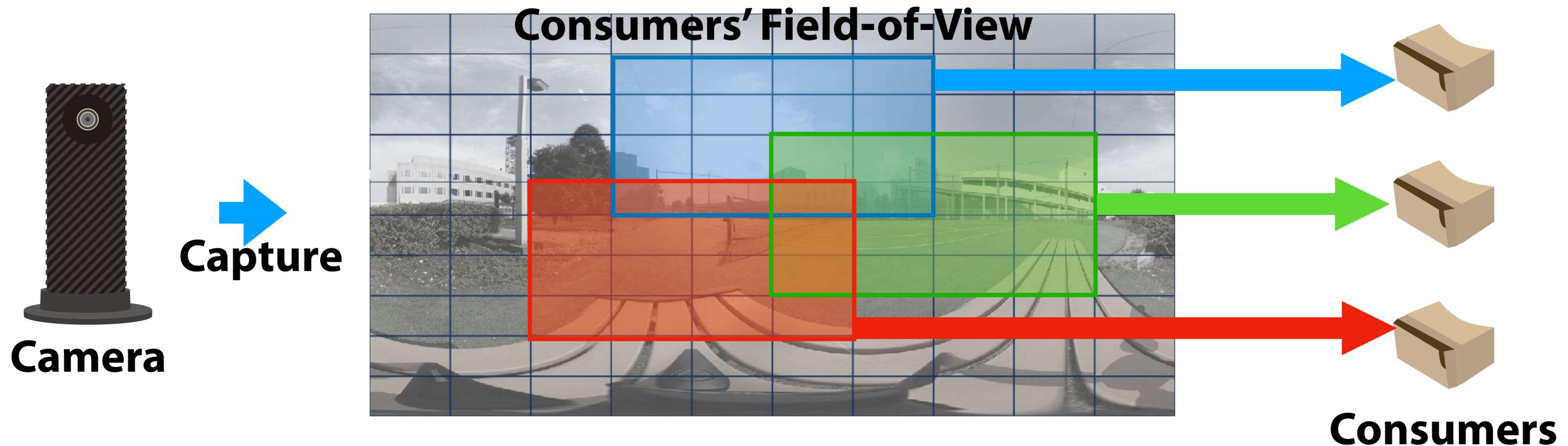
* This demonstration was shown at CEBIT 2018



- 360-degree panoramic video streaming are becoming very popular
 - The affordable price of cameras
 - The natural experience given by specific visors like smartphones and VR-visors (e.g.: cardboard)
- The quantity of data produced is far more superior than normal video
 - High resolution is required
- An optimization on the data transmission is required
 - We demonstrate the tile-based streaming over ICN network

Idea

- Video frames are divided into non-overlapping tiles
- Consumers request only a subset of tiles according to their Field-of-View
- Each tile is assigned a unique **name**
 - ICN caching reduces the network traffic and the producer's load.



Demo

- Panoramic video streaming on ICN network
- Edge node reduces traffic usage between Producer and Edge node

