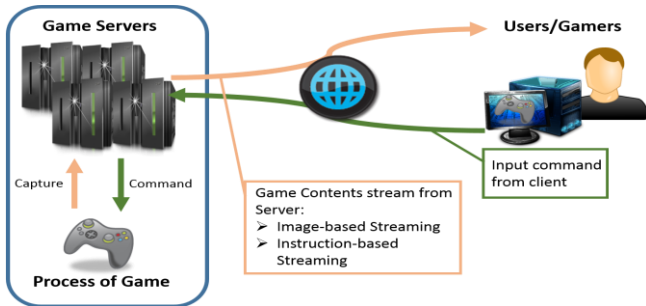


# A Hybrid Game Contents Streaming Method to Improve Graphic Quality Delivered by Cloud Gaming

## Cloud Gaming Service

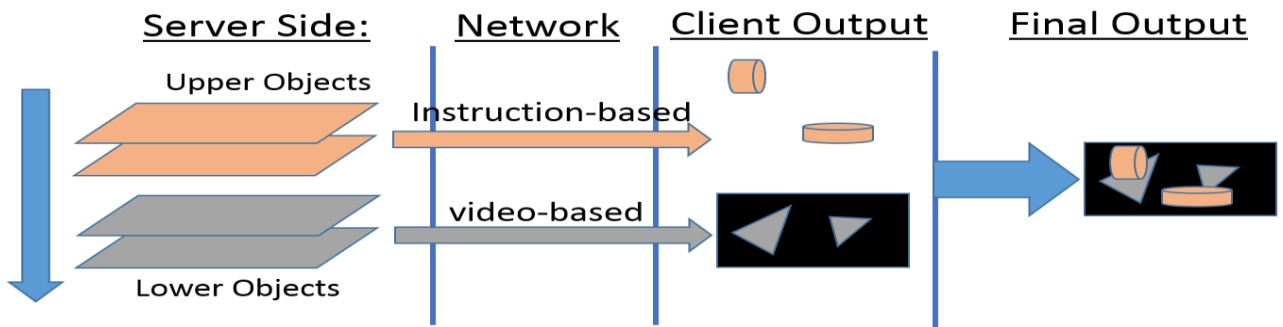
Chan Kar Long, Kohei Ichikawa

Cloud Gaming is a novel cloud-based on-demand gaming service to allow players to play games on anytime in anywhere. Two major techniques are used to stream the gaming contents to Players: Instruction-based Streaming and Image-based Streaming.



	Instruction-based	Image-based
Local Device	High Requirement	Low Requirement
Graphic Quality	Original	Degraded
Usage	Small Area	Comercial

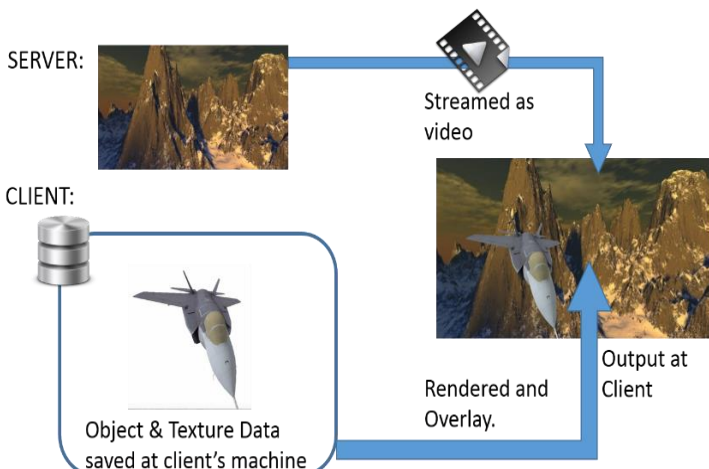
## Proposed Method: A Hybrid Cloud Gaming System



### Advantages:

- Built upon GamingAnyWhere, Maintain availability to many Devices
- Improve Graphic Quality by Rendering part of the contents locally at the client's device.
- Offloading some of the works to client help to lower server workload.

## Evaluation



	PSNR	SSIM
Image-based	43.96	0.9964
Hybrid System	<b>46.20</b>	<b>0.9966</b>

