



Xihui Liu, Assistant Professor at EEE and IDS

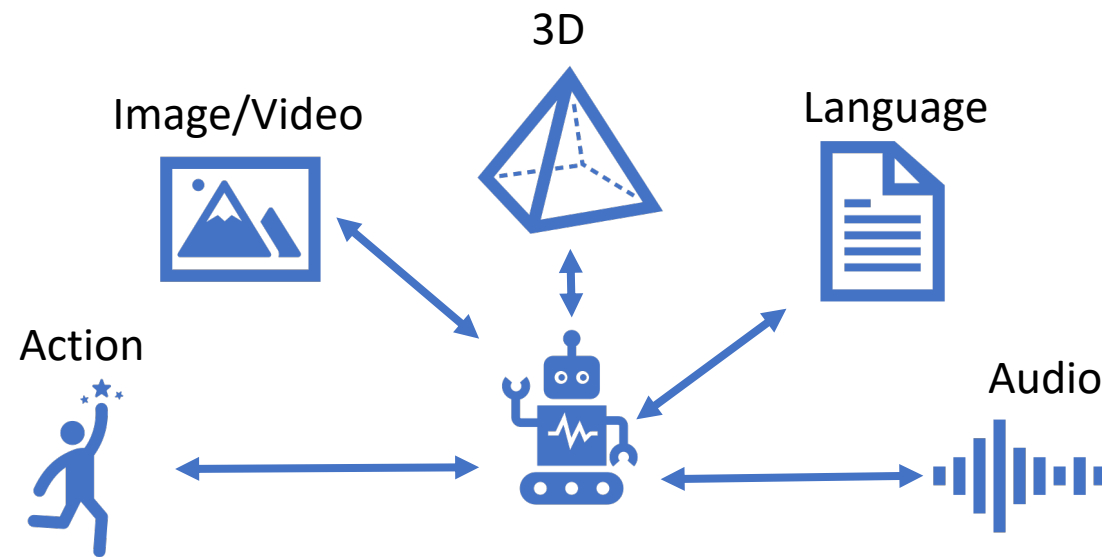
- xihuiliu@eee.hku.hk
- Bachelor's degree from Tsinghua University.
- Ph.D. degree from The Chinese University of Hong Kong.
 - Adobe Research Fellowship 2020.
- Postdoc at EECS Department, UC Berkeley.
 - MIT EECS Rising stars 2021, WAIC Rising Stars 2022.
- Research Interest
 - Computer vision, machine learning, artificial intelligence.
- Potential Students
 - Strong academic background (especially math and programming)
 - Passion and interest in research



Multi-modal AI

Language-based image/video search

Query: A man standing on the lake shore is drinking hot tea.



Applications: Human-Robot Interaction

Generating image/video descriptions



A vase with pink and yellow flowers sitting on a white table.

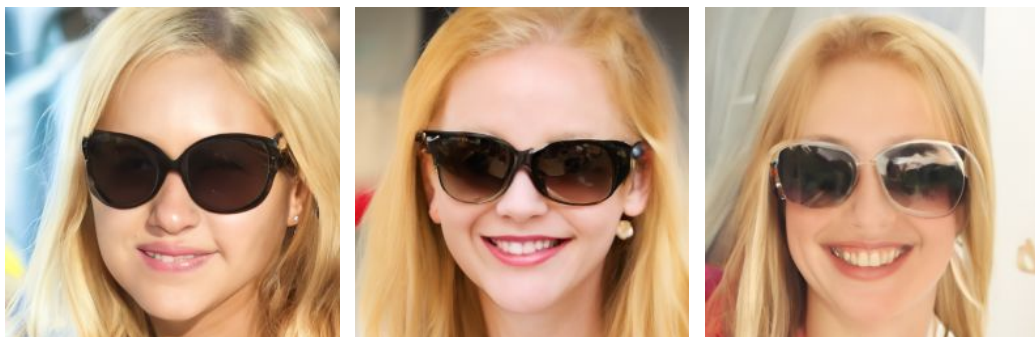




Semantics-guided Visual Synthesis

Language-based image/video synthesis

A smiling woman with straight, blonde hair wearing sunglasses.



Semantic Image Synthesis

Semantic map

SPADE (GauGAN)

Ours



Language-based image/video editing

red car



green car



Applications: Augmented Reality / Virtual Reality

