

Interfaces desenvolvidas pela YDreams

2000-2020

Voo virtual

<http://tinyurl.com/gggrjd>

Exploração virtual de edifícios

<http://tinyurl.com/jju6nnt>

Interacção voz/gestos com bots

<https://www.youtube.com/watch?v=AmlKYMDO8x8> (Vic Tour)

Interfaces voz com robots

<https://www.youtube.com/watch?v=bzDIJ6TTc6w> (Santander)

Interfaces gestuais

<https://www.youtube.com/watch?v=91F6zErnCrs> (YScope)

https://www.youtube.com/watch?v=eM_cv3blX_w (Nike Store, Staples Center, LA)

<https://www.youtube.com/watch?v=whNN9y4Lye4> (FLyAR)

<https://www.youtube.com/watch?v=51q3D1bU39c> (MIPT TV)

<https://www.youtube.com/watch?v=qXclZ1R68SQ> (Canesta project for CES 2010)

Interfaces com markers

<https://www.youtube.com/watch?v=rB3Yn1mCo8k> (cookies)

https://www.youtube.com/watch?v=C3HMLQ0_Hnw (CTT flagship store, after 50 s)

<https://www.youtube.com/watch?v=7ToBkiJlycl> (Imaginarium store, Barcelona)

Interfaces baseadas na posição

<http://videos.sapo.pt/3cwtuWym0VDwE8T3TWK8>

Interfaces cérebro-máquina

Y Labs

Brain Machine Interfaces

YDreams Augmented Reality System for BMI:

- YDreams Simulation System – core system, 3D engine
- Simulation Editing – predefined, wearable system
- Interaction with patient
- Stereoscopy with video-through HMD
- Spatial 3D sound
- 3D modeling
- Encoded spatial coordinates, kinematic parameters
- Occlusion, collision, shadows
- Automatic camera calibration and positioning
- Cortical Data Acquisition Unit (CNEL-UFL)
- Signal processing neural network models (CNEL-UFL)
- Wireless data transmission

Superimposing rendered computer graphics of moving virtual hands and arms on real images in real time: resulting immersive environment stimulates the subject's cortical activity associated with "mixed" reality being simulated.

