

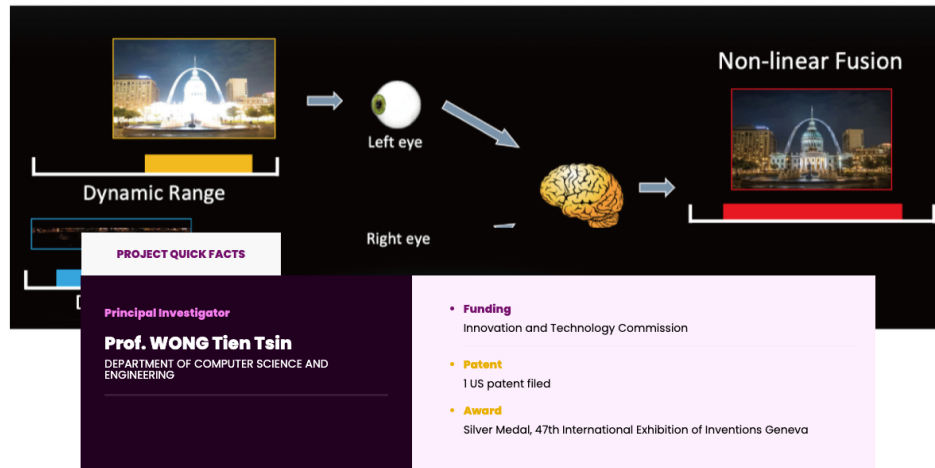


Binocular Single Vision for Medical and Entertainment Applications

#Imaging

#3D

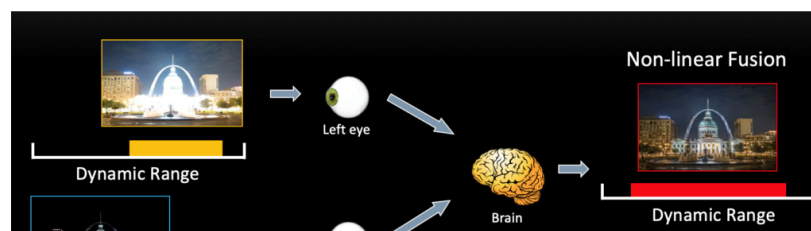
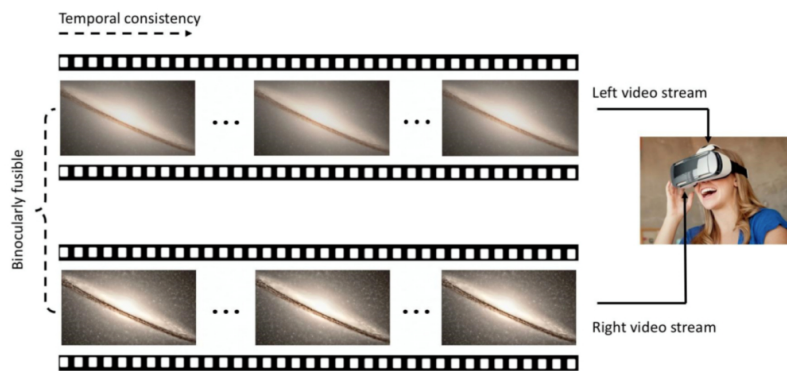
#2019

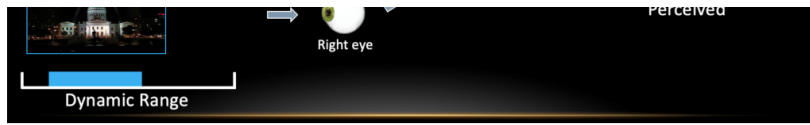


Human eyes are capable of fusing two displaced images, even those with differences in details, contrast and luminance, as up to a certain limit. This phenomenon is binocular single vision, based on which we developed the world's first Binocular Video Tone Mapping (BVTM) framework. Our proposed BVTM framework can be adopted in Hollywood 3D film-making industry by generating videos that quality, vividness, realism and other attributes are beyond what is currently possible. In ophthalmologic examinations, our technology can be applied for Amblyopia (Lazy Eye) treatment by engaging the idle eye with more visual depth and details.

Uniqueness and Competitive Advantages:

- An easy-to-use, low cost and high efficiency system
- Visual vividness improvement and innovative treatment
- Applications in movie, game and medical industry





Non-linear fusion in Binocular Single Vision

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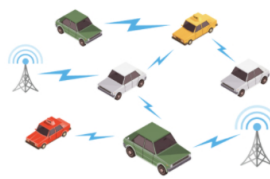
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