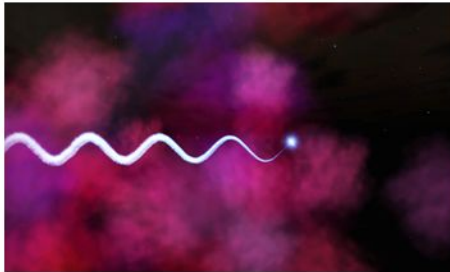


Pulse wave meets Virtual Reality

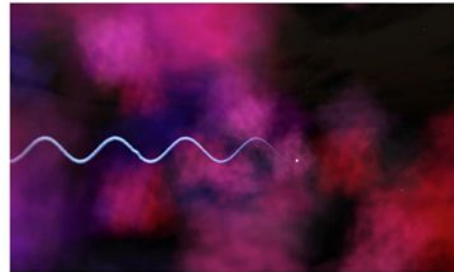
1. Visualizing the pulse wave in VR world

- An object which synchronizes with the human pulse wave:

The movement and brightness of the flying object changes its appearance according to the human pulse wave in a real time series.



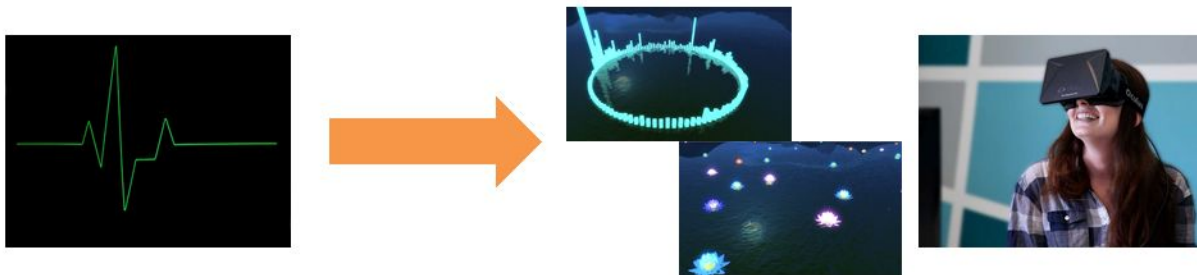
When the pulse is fast and large



When the pulse is slow and small

2. A new VR architecture as a biofeedback system

- Feedback of the pulse wave in the form of visual, acoustic, and haptic stimulus in VR world entrains human body functioning and induces relaxation in mind.



Ref: Ambient Feedback System Lab.: <http://kjs.nagaokaut.ac.jp/nomura/af/s/>

3. Features and possible applications

“Pleasurable ”and “Intuitive ” medical instrument for the personal use, targeting on complementary and alternative medicine

- Long- term healthcare tool with low dropout rate by its pleasurable architecture
- Easy to grasp daily health state without expertise by its intuitive interface

Contact:

Shusaku Nomura (Ph.D)
Nagaoka University of Technology
e-mail : nomura@kjs.nagaokaut.ac.jp
Tel : +81 258 47 93 56