


Requests for Collaboration

<p>Name: Hideya TAKAHASHI, PH.D. Current position: Professor E-mail address: hideya@osaka-cu.ac.jp</p>	
<p>Research Interests</p>	
<ul style="list-style-type: none">● 3D display● Retinal projection head-mounted display● Wearable vital signs sensor	
<p>Creative Achievements in The Application of New and Existing Science and Technology</p>	
<p>(1) We have proposed a novel eye tracking system to expand the viewing area in all directions for glasses-free 3D display displayable in both portrait and landscape modes. Its viewing area is extremely expanded by dividing single screen into multiple areas and controlling binocular images positions of each area.</p> <p>(2) We have proposed a retinal projection type super multi-view 3D head-mounted display. In this system, since the stimulus for the accommodation of human eye and the smooth motion parallax are provided by the super multi-view technique, we can observe virtual 3D images naturally.</p> <p>(3) In order to realize a vital signs monitoring system that can be measured unconsciously simply by wearing it, we developed a textile sensor. We have designed the textile circuit using conductive fibers to estimate blood pressure.</p>	
<p>Technology (Product, Process, Device, Service etc.) That I Want to Request for Collaboration</p>	
<ul style="list-style-type: none">● Retinal projection display as a low-vision aid● Wearable sensors● Tablet type / smartphone type 3D display	
<p>A List of 5 Key Publications</p>	
<ul style="list-style-type: none">• Portrait and landscape mode convertible stereoscopic display using parallax barrier, Yusuke Minami, Goro Hamagishi, Kayo Yoshimoto, and <u>Hideya Takahashi</u>, Proc. IS&T Int. Symp. Electronic Imaging 2017 Stereoscopic Display and Applications XXVIII, San Francisco, Jan. 31, 106-112, 2017.• Tadayuki Konda, Katsuhisa Tanaka, Kayo Yoshimoto, and <u>Hideya Takahashi</u>, Retinal projection type super multi-view 3D head-mounted display using the time division projection optical system, Proc of SPIE, Advances in Display Technologies VIII, 10556, 105560L1-105560L11, 2018.• <u>Hideya Takahashi</u>, Yutaka Ito, Seigo Nakata, and Kenji Yamada, Retinal projection type super multi-view head-mounted display, Proc. SPIE-IS&T Electronic Imaging, 9012, 90120L1-90120L6, 2014.• Kayo Yoshimoto, Katsuhisa Tanaka, <u>Hideya Takahashi</u>, and Atsuji Masuda, Development of pulse wave sensing textile using conductive fiber, Journal of Fiber Science and Technology, 73, 11, 294-299, 2017.• Tomohiro Kuroda, <u>Hideya Takahashi</u>, and Atsuji Masuda, Woven Electronic Textiles, in Edward Sazonov and Michael R. Neuman (eds.), Wearable Sensors, Elsevier, 175-198, 2014.	