

Oral Presentation

[PRJ7/LCT8]Eyewear

Special Topics of Interest on AR/VR and Hyper Reality

Chair: Dieter Cuypers (CMST)

Co-Chair: Subaru Kawasaki (JNC Korea)

Fri. Nov 29, 2019 3:00 PM - 4:20 PM Room 108 (1F)

3:00 PM - 3:20 PM

[PRJ7/LCT8-1]LC Lens Fabricated by Photoalignment for AR/VR Systems

*Wei-Wei Chen¹, Jui-Wen Pan¹, Shie-Chang Jeng¹ (1. National Chiao Tung University (Taiwan))

Keywords:Liquid crystal lens, Polarization-free, Augmented reality, Photoalignment

A concept for an electrically tunable liquid crystal (LC) lens using a hole-patterned electrode and the vertical alignment liquid crystal cell by circular photoalignment is demonstrated. The proposed LC lens is a polarizer-free negative lens(0D~-0.93D) by changing the driving voltage. The proposed LC lens can be applied for AR/VR applications.