4:30 PM - 4:50 PM

[LCT2-4] Fast-response Pancharatnam-Berry Lens for Head-up Displays
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In this paper we demonstrate fast-response Pancharatnam-Berry lenses (PBLs) based on polymer-stabilized liquid crystal. After photo-alignment technique and UV curing, the PBLs show submillisecond response time. Based on two identical PBLs, a head-up display system that can generate four different diopters is demonstrated.