Micro LED Display

Special Topics of Interest on Micro/Mini LEDs
Chair: K Käläntär (Global Optical Solutions)
Co-Chair: Seiji Shibahara (Sony Home Entertainment & Sound Products Inc.)
Thu. Nov 28, 2019 9:00 AM - 10:20 AM Mid-sized Hall A (1F)

An Active Matrix Mini-LEDs Backlight based on a-Si
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Keywords: Mini-LEDs, A-Si TFT, Backlight

In this work, we fabricate an active matrix mini-LEDs backlight based on a-Si. The driving mechanism with 2T1C and process flow are discussed in detail. IR-drop is analyzed and improved. The gray scale is controlled by PWM method with the number of 64 (6 bit), and the maximum brightness is up to 20,000 nits.