



The 30th Microoptics Conference
Utsunomiya, Japan



This is to certify that
the MOC2025 Program Committee
has presented

The MOC Paper Award

to

**Hameeda Ragab Ibrahim, Ahmed Hassan,
Chang Ge, Xiaodong Gu, and Fumio Koyama**

for their excellent paper entitled
“Single-mode 48-channel 1060 nm metal aperture VCSEL array
enabling 9.6 Tbps data throughput”.

In witness whereof this fifteenth day of October 2025

Hiroyuki Ishii

Hiroyuki Ishii
Program Co-chair

Tomohiro Kita

Tomohiro Kita
Program Co-chair