



**MOC2024**  
**(The 29<sup>th</sup> Microoptics Conference)**

**MOC Paper Award**

*This certificate is proudly presented to*

**Hameeda R. Ibrahim, Ahmed Hassan, Chang Ge, Xiaodong Gu,  
Babu D. Padullaparthi, and Fumio Koyama**

*for their excellent contributed paper entitled*

**Over 140Gbps Direct Modulation of Single-mode  
1060nm Metal Aperture Coupled Cavity VCSELs**

Kiichi Hamamoto  
Conference Co-chair, MOC2024

Yi-Jen Chiu  
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