



**MOC2019**

**Toyama, Japan**



## The 24th Microoptics Conference

This is to certify that  
the Program Committee has presented

# The MOC Paper Award

to

**Hiroki Ota, Toshihiro Asahi, Xiodong Gu,  
Takahiro Sakaguchi, and Fumio Koyama**

for their excellent paper entitled "Monolithic Integration of MEMS  
Tunable VCSEL and Beam Deflector".

In witness whereof this twentieth day of November 2019

杉原 史弘

Okihiro Sugihara  
Conference Co-chair

高橋 浩

Hiroshi Takahashi  
Conference Co-chair

荒川 太郎

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