

CALL FOR PAPERS

Laser Display and Lighting Conference 2021
(LDC2021)



Laser Display and Lighting Conference 2021

Introduction

The Laser Display and Lighting Conference (LDC) is an international conference on laser displays, laser lighting, and related technologies. The 1st, 2nd, 4th, and 6th-8th LDC were held in Yokohama, Japan in 2012, 2013, 2015, 2017-2019, respectively, the 3rd in Taichung, Taiwan in 2014, and the 5th in Jena, Germany in 2016. The 9th LDC was held online in 2020. The 10th Laser Display and Lighting Conference (LDC2021) will be held online as well.

The LDC2021 is intended to provide a central forum for the update and review of scientific and technical information on laser display and lighting covering a wide range of fields from fundamental research to systems and applications. The conference is sponsored by the Optical Society of Japan in cooperation with several academic societies and associations.

For details, please come to our web-site;

<https://ldc.opicon.jp/>

Chairs

Conference chair	co-chair	Kazuo Kuroda
	co-chair	Hiroshi Murata
	co-chair	Fergal Shevlin
Steering committee	co-chair	Kazuhisa Yamamoto
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	co-chair	Shining Zhu
	vice co-chair	Tatsushi Hamaguchi
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	vice co-chair	Hirotsugu Yamamoto

Sponsors

Sponsored by

The Optical Society of Japan

Co-Sponsored by

The Japan Society of Applied Physics

Organized by

Laser Display Technology Group (LDT) of Optical Society of Japan (OSJ)

In cooperation with

The Laser Society of Japan

Consortium of Visible Laser Diode Applications

Co-located conferences

Optics and Photonics International Congress (OPIC) 2021 is a FOUR day event, including ELEVEN cutting edge conferences. OPIC 2021 provides access to the very latest products, research and initiatives in the optics and photonics sector. It also offers you the opportunity for the interaction with those driving the future of optics and photonics technology. And Optics and Photonics International Exhibition (OPIE) 2021, an exciting trade and technology exhibition featuring leading players from across the globe, will be held at the great hall next to the conferences place. That may bring you good opportunities to touch the state of the art products and technologies in the sector. By registering for LDC 2021, you can participate in all international conferences.

Important deadlines

Regular Paper Submission: 14th January 2021

Postdeadline Paper Submission: TBD

Early Registration: TBD

Contact Us

LDC 2021 Secretariat Desk

ldc[at]opicon.jp

Scope

LDC 2021 covers the laser display / lighting technology in the following major topical fields:

A. Light Sources and Components

Visible lasers, LED, solid-state light sources, phosphor, wavelength conversion materials, for displays and automotive applications. Optoelectronic components, such as spatial light modulators, high-speed scanners, MEMS, projection components, display drivers and interfaces are also included.

B. Imaging / Lighting

Display, projector, lighting, 3D imaging, and holography systems and technologies. Evaluation and reduction technologies of speckle and color speckle. Color management for laser-based display and lighting. Laser safety and standardization are also included.

C. Smart Systems

Display, projector, lighting, 3D imaging, holography, and IoT systems for smart society, which are integrated with other functional devices or technologies, such as AI analysis / control, signal processing, various sensors (e.g., cameras, TOF and LiDAR), human interfaces, wired/wireless microwave/millimeter wave/optical communication devices or interfaces, or wired/wireless optical power supplies. Design, algorithm, or components particularly applied for the above smart systems are also included.

D. AR, MR, VR, ... XR Technologies

AR (Augmented Reality), MR (Mixed Reality), and VR (Virtual Reality). These concepts are collectively called XR (Cross Reality). XR technologies opening a new market and having a great impact on life style. New platforms using XR technologies (relevant hardware, software technologies and their applications).

E. Laser Applications for Automotive

Lighting applications include headlights, rear lights, as well as other functional lighting devices for use in adverse weather conditions. Applications involving both lighting and display include road surface projectors. Sensing applications of particular attention are those for use in autonomous vehicles, such as ToF based LiDAR, as well as FMCW LiDAR. Light-based vehicle-to-vehicle communication will also be featured in this session.

F. Novel and Emerging Technologies

Novel and emerging technologies of laser display and lighting including components and optics. Their applications to entertainment, education, medical, social and other systems are also included.

Keynote Session

Under negotiation

Basically, TWO talks are planned, one is focused on the light source and the other on the system.

Invited Talks

Under negotiation

LDC2021 Special Issue of Optical Review

The special issue on Laser Displays will be published in Nov./Dec., 2021 issue of OPTICAL REVIEW, the journal edited by the LDC committee and will be distributed by Springer. All the authors of LDC2021 are strongly encouraged to submit the original papers to the special issue. Please note that all submissions will be peer-reviewed following the editorial policy of OPTICAL REVIEW. The submissions from invited speakers are also welcome. Manuscript should follow Optical review submission guidelines "Instructions for Preparation of Manuscript" and be submitted in the electronic form on the internet.

Submission Deadline: TBD (E. May, 2021)

A detailed instruction will be available from the following Web site:
<http://myosj.or.jp/en/publication/optical-review/>

Committee

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Fergal Shevlin (DYOPTYKA)

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