

CALL FOR PAPERS

LDC2022

11th Laser Display and Lighting Conference

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



Apr. 19 (Tue.) - Apr. 22 (Fri.), 2022

Hybrid Format

PACIFICO Yokohama, Japan + Online

Paper Deadline: January 14 (Fri.), 2022

Introduction

The Laser Display and Lighting Conference (LDC) is an international conference on laser displays, laser lighting, and related technologies. The 11th Laser Display and Lighting Conference (LDC2022) will be held in a hybrid format with both onsite (PACIFICO Yokohama, Japan) and online versions on April 19 - April 22, 2022. This conference is sponsored by the Optical Society of Japan in cooperation with several academic societies and associations. The LDC2022 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.

For details, please come to our website:

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

Chairs

Conference Chair	Co-chair	Kazuo Kuroda
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Sponsors

Sponsored by

The Optical Society of Japan

Organized by

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

In Cooperation with

The Japan Society of Applied Physics

*Some other organizations are under negotiation.

Co-located Conferences

Optics and Photonics International Congress (OPIC) 2022 is a five day event, including fifteen cutting edge conferences. OPIC2022 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) 2022, an exciting trade and technology exhibition featuring leading players from across the globe, will be held at the great hall next to the conference place. That may bring you good opportunities to touch the state of the art products and technologies in the sector. By registering for LDC2022, you can participate in all international conferences.

Important Deadlines

Regular Paper Submission: 14th January 2022

Post-deadline Paper Submission: TBD

Registration: TBD

Contact Us

LDC2022 Secretariat Desk

ldc[at]opicon.jp

Scope

LDC2022 covers the laser display and 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 expanding human potential and having a great impact on life style as well as opening a new market. New platforms using XR technologies (relevant hardware, software technologies and their applications for human being).

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

Mitsuru Sugawara, QD Laser Co., Inc.
"Future unlocked by semiconductor lasers"

Jonas Zeuner, VitreaLab GmbH
"Writing waveguides in glass for future laser displays"

Invited Talks

TBD

*This list is as of mid of September 2021. For the latest list, please come to our website:

<https://ldc.opicon.jp/invited-speaker/>

Special Session

Special Session is planned. For the latest information, please come to our website:

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

Paper Publication

The abstract book of LDC2022 will be published in **SPIE. Digital Library** on June to August 2022 (Free Access). The special issue on Laser Displays will also be published in Nov./Dec., 2022 issue of **OPTICAL REVIEW**, the journal edited by the LDC committee and will be distributed by Springer. All the authors of LDC2022 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, 2022)

A detailed instruction is available from the following website:

<http://myosj.or.jp/en/publication/optical-review/>

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