## **CALL FOR PAPERS**



Conferences: 7-11 April 2024 Exhibition: 9-10 April 2024 Palais de la Musique et des Congrès Strasbourg, France

Submit abstracts by **30 November 2023** 



# Semiconductor Lasers and Laser Dynamics XI (PE113)

Conference Chairs: Marc Sciamanna, CentraleSupélec (France); Fan-Yi Lin, National Tsing Hua Univ. (Taiwan); Jesper Mørk, Technical Univ. of Denmark (Denmark)

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The conference will cover all types and all aspects of semiconductor lasers. Topics include, but are not limited to:

- Fabry-Perot, DFB, DBR laser diodes, multi-segment devices
- VCSELs, VECSELs
- quantum and interband cascade lasers
- semiconductor optical amplifiers
- novel laser structures like micro-, nano-cavities, photonic crystals
- single-photon and entangled photon semiconductor sources for quantum photonics
- integrated lasers
- lasers for silicon photonics
- epitaxial growth and processing aspects
- low-dimensional active regions in semiconductor lasers (quantum dashes, dots, etc.)
- novel semiconductor laser materials
- UV to IR laser emission wavelengths
- wavelength tuning, spectral properties
- laser emission profile shaping
- high power generation, high brightness emission

- laser diode dynamics
- high-speed modulation
- external feedback, optical injection and coupled semiconductor lasers
  mode locking
- neuromorphic computing using semiconductor laser dynamics
- patterns and localized structures in semiconductor lasers
- noise
- new phenomena in semiconductor lasers
- topological lasers
- physics and theory of semiconductor lasers
- numerical methods, modeling and simulations.

Submissions of papers addressing one or more of these items are welcome.

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Abstracts due	30 November 2023
Authors notified and programme posts online	25 January 2024
Registration opens	8 January 2024
Submission system opens for manuscripts and poster videos/PDFs*	5 February 2024
Manuscripts due	20 March 2024

\*Contact author or speaker must register prior to uploading

#### What you will need to submit

- Presentation title
- Author(s) information
- Speaker biography (1000-character max including spaces)
- Abstract for technical review (200-300 words; text only)
- Summary of abstract for display in the programme (50-150 words; text only)
- Keywords used in search for your paper (optional)
- Check the individual conference call for papers for additional requirements (i.e. extended abstract PDF upload for review or instructions for award competitions)

Note: Only original material should be submitted. Commercial papers, papers with no new research/development content, and papers with proprietary restrictions will not be accepted for presentation.

#### How to submit your abstract

- Visit the conference page: <u>www.spie.org/pe113call</u>
- You may submit more than one abstract, but submit each abstract only once
- Submit by clicking the "Submit an Abstract" button on the conference page
- Sign in to your SPIE account, or create an account if you do not already have one
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- If your submission is related to an application track below, indicate the appropriate track when prompted during the submission process

#### **Submission agreement**

All presenting authors, including keynote, invited, oral, and poster presenters, agree to the following conditions by submitting an abstract:

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- Email messaging for the conference series
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- · Obtain funding for registration fees, travel, and accommodations
- Attend the meeting
- Present at the scheduled time

#### **Review and programme placement**

- To ensure a high-quality conference, all submissions will be assessed by the conference chair/editor for technical merit and suitability of content
- Conference chairs/editors reserve the right to reject for presentation any paper that does not meet content or
  presentation expectations
- · Final placement in an oral or poster session is subject to chair discretion

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