

PROCEEDINGS OF SPIE

Practical Holography XXXX: Displays, Materials, and Applications

Pierre-Alexandre J. Blanche
Hiroshi Yoshikawa
Editors

20–21 January 2026
San Francisco, California, United States

Sponsored and Published by
SPIE

Volume 13917

Proceedings of SPIE 0277-786X, V. 13917

SPIE is an international society advancing an interdisciplinary approach to the science and application of light.

The papers in this volume were part of the technical conference cited on the cover and title page. Papers were selected and subject to review by the editors and conference program committee. Some conference presentations may not be available for publication. Additional papers and presentation recordings may be available online in the SPIE Digital Library at SPIDigitalLibrary.org.

The papers reflect the work and thoughts of the authors and are published herein as submitted. The publisher is not responsible for the validity of the information or for any outcomes resulting from reliance thereon.

Please use the following format to cite material from these proceedings:

Author(s), "Title of Paper," in *Practical Holography XXXX: Displays, Materials, and Applications*, edited by Pierre-Alexandre J. Blanche, Hiroshi Yoshikawa, Proc. of SPIE 13917, Seven-digit Article CID Number (DD/MM/YYYY); (DOI URL).

ISSN: 0277-786X

ISSN: 1996-756X (electronic)

ISBN: 9781510697515

ISBN: 9781510697522 (electronic)

Published by

SPIE

P.O. Box 10, Bellingham, Washington 98227-0010 USA

Telephone +1 360 676 3290 (Pacific Time)

SPIE.org

Copyright © 2026 Society of Photo-Optical Instrumentation Engineers (SPIE).

Copying of material in this book for internal or personal use, or for the internal or personal use of specific clients, beyond the fair use provisions granted by the U.S. Copyright Law is authorized by SPIE subject to payment of fees. To obtain permission to use and share articles in this volume, visit Copyright Clearance Center at copyright.com. Other copying for republication, resale, advertising or promotion, or any form of systematic or multiple reproduction of any material in this book is prohibited except with permission in writing from the publisher.

Printed in the United States of America by Curran Associates, Inc., under license from SPIE.

Publication of record for individual papers is online in the SPIE Digital Library.

**SPIE. DIGITAL
LIBRARY**

SPIDigitalLibrary.org

Paper Numbering: A unique citation identifier (CID) number is assigned to each article in the Proceedings of SPIE at the time of publication. Utilization of CIDs allows articles to be fully citable as soon as they are published online, and connects the same identifier to all online and print versions of the publication. SPIE uses a seven-digit CID article numbering system structured as follows:

- The first five digits correspond to the SPIE volume number.
- The last two digits indicate publication order within the volume using a Base 36 numbering system employing both numerals and letters. These two-number sets start with 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B ... 0Z, followed by 10-1Z, 20-2Z, etc. The CID Number appears on each page of the manuscript.

Contents

v *Conference Committee*

HOLOGRAPHIC MATERIALS

- 13917 02 **Reflection HOEs recorded on photopolymerisable glass layers: a step towards holographic mirrors for AR technologies** [13917-2]
- 13917 03 **Update on the temporal trap and holographic printer** [13917-6]
- 13917 04 **Spatially multiplexed diffraction grating for color consistency optimization in waveguide display** [13917-7]

HOLOGRAPHIC DISPLAY

- 13917 05 **Holographic rendering algorithms and display architectures with large étendue (Invited Paper)** [13917-8]
- 13917 06 **Integrated correction for mixed error in parameter of full-color object wavefield** [13917-11]
- 13917 07 **Real-time calculation and display of 14K rainbow hologram on transmission liquid crystal panel** [13917-14]
- 13917 08 **Subwavelength spatial light modulator for holographic augmented reality applications (Invited Paper)** [13917-15]

ARTISTIC APPLICATIONS OF HOLOGRAPHY

- 13917 09 **Digital art holograms: exploring concepts in a dynamic space** [13917-16]

3D IMAGING AND APPLICATIONS

- 13917 0A **Update on Hunt for the Hologram program** [13917-20]

- 13917 0B **Digital holography with speckle illumination for improved resolution** [13917-21]
- 13917 0C **Coded imaging under natural light via incoherent digital holography and lensless optics (Invited Paper)** [13917-23]
- 13917 0D **Photorealistic point cloud generation for computer-generated holography using WebGL** [13917-24]

POSTER SESSION

- 13917 0E **Holographic windshield system with anti-glare function** [13917-27]