PROCEEDINGS OF SPIE

Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and Large Water Regions 2014

Charles R. Bostater Jr.
Stelios P. Mertikas
Xavier Neyt
Editors

24–25 September 2014
Amsterdam, Netherlands

Sponsored by
SPIE

Cooperating Organisations
European Association of Remote Sensing Companies (Belgium)
Remote Sensing and Photogrammetry Society (United Kingdom)
European Optical Society
CENSIS—Innovation Centre for Sensor & Imaging Systems
EUFAR—European Facility for Airborne Research
EARSeL—European Association of Remote Sensing Laboratories
TNO
ESA

Published by
SPIE

Volume 9240

Proceedings of SPIE 0277-786X, V. 9240

Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and Large Water Regions 2014, edited by Charles R. Bostater Jr., Stelios P. Mertikas, Xavier Neyt, Proc. of SPIE Vol. 9240, 924001

The papers included 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. The papers published in these proceedings 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 this book:
Author(s), "Title of Paper," in *Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and Large Water Regions 2014*, edited by Charles R. Bostater Jr., Stelios P. Mertikas, Xavier Neyt, Proceedings of SPIE Vol. 9240 (SPIE, Bellingham, WA, 2014) Article CID Number.

ISSN: 0277-786X
ISBN: 9781628413038

Published by
SPIE
P.O. Box 10, Bellingham, Washington 98227-0010 USA
Telephone +1 360 676 3290 (Pacific Time) · Fax +1 360 647 1445
SPIE.org

Printed in the United States of America.

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

SPIEDigitalLibrary.org

Paper Numbering: Proceedings of SPIE follow an e-First publication model, with papers published first online and then in print and on CD-ROM. Papers are published as they are submitted and meet publication criteria. A unique, consistent, permanent citation identifier (CID) number is assigned to each article at the time of the first 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, print, and electronic versions of the publication. SPIE uses a six-digit CID article numbering system in which:

- The first four 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. The complete citation is used on the first page, and an abbreviated version on subsequent pages. Numbers in the index correspond to the last two digits of the six-digit CID Number.

Contents

Authors

Numbers in the index correspond to the last two digits of the six-digit citation identifier (CID) article numbering system used in Proceedings of SPIE. The first four digits reflect the volume number. Base 36 numbering is employed for the last two digits and indicates the order of articles within the volume. Numbers start with 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B...0Z, followed by 10-1Z, 20-2Z, etc.

Conference Committee

Symposium Chairs

Charles R. Bostater Jr., Florida Institute of Technology (United States)

Symposium Co-chairs

Ulrich Michel, University of Education Heidelberg (Germany)
Bart Snijders, TNO (Netherlands)

Conference Chairs

Charles R. Bostater Jr., Florida Institute of Technology (United States)
Stelios P. Mertikas, Technical University of Crete (Greece)
Xavier Neyt, Royal Belgian Military Academy (Belgium)

Conference Programme Committee

Richard J. Breitlow, Agfa Corporation (United States)
Jean-Paul Bruyant, ONERA (France)
Alexander Gilerson, The City College of New York (United States)
Carlton R. Hall, Dynamac Corporation (United States)
Heinz-Detlef Kronfeldt, Technische Universität Berlin (Germany)
Frederic Lamy, ONERA (France)
Ana M. Martins, Universidade dos Açores (Portugal)
Caroline Nichol, The University of Edinburgh (United Kingdom)
Petri Pellikka, University of Helsinki (Finland)

Session Chairs

1 Sea Ice Remote Sensing and Analysis
Yi Luo, Environment Canada (Canada)

2 Space-based Ocean Remote Sensing
Xavier Neyt, Royal Belgian Military Academy (Belgium)

3 Ocean Surface Pollution Assessment
Peer Helmke, Bundesanstalt für Gewässerkunde (Germany)

4 Coastal and Inland Waters Remote Sensing
George D. Emmitt, Simpson Weather Associates, Inc. (United States)

5 Radar Remote Sensing I
Anis Elyouncha, Royal Belgian Military Academy (Belgium)