

International Conference on Autonomous Ships 2020

London, United Kingdom
17 - 18 June 2020

ISBN: 978-1-7138-8295-4

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2020) by The Royal Institution of Naval Architects
All rights reserved.

Printed with permission by Curran Associates, Inc. (2024)

For permission requests, please contact The Royal Institution of Naval Architects
at the address below.

The Royal Institution of Naval Architects
8-9 Northumberland Street
London, WC2N 5DA
United Kingdom

Phone: 020 7235 4622

Fax: 020 7259 5912

publications@rina.org.uk

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

CONTENTS

TOWARDS AUTONOMOUS SHIPS – FLAG STATE INVOLVEMENT AND REGULATORY ASPECTS	1
<i>C. Balls, Principal Surveyor, Cayman Registry, Cayman Islands</i>	
DEVELOPING THE MARLAB MARINE AUTONOMOUS SURFACE SHIPS DATA PROJECT	9
<i>R. J. H. Blazejczyk, Solis Marine Consultants, UK</i>	
<i>W. J. Ellison, MariTrace, UK</i>	
<i>S. Hindley, Solis Marine Engineering, UK</i>	
AUTONOMOUS SHIP: MANOEUVRING AND CONTROL IN LABORATORY ENVIRONMENT	17
<i>A. Chandra Dubey, V. A. Subramanian and P. Krishnankutty, Indian Institute of Technology Madras, India</i>	
CHALLENGES OF MISSION PLANNING FOR COLLABORATIVE MARITIME AUTONOMY	23
<i>S.R. Turnock, T.S. Hoang, S.J. Johnston, J. Downes University of Southampton, UK</i>	
<i>J. Lam, and B. Pritchard, Thales Maritime Autonomy Centre, UK</i>	
CONTROL SYSTEM DESIGN FOR AUTONOMOUS UNDERWATER TRANSPORTATION USING FOUR SEAPERCH HAUVS	33
<i>F. U. Rehman, G. Thomas and E Anderlini, University College London, UK</i>	
<i>S. Khalid and Z. Riaz, Pakistan Navy Engineering College, Pakistan</i>	
NUMERICAL AND EXPERIMENTAL ANALYSES OF VARIABLE BUOYANCY SYSTEM FOR AUTONOMOUS UNDERWATER VEHICLE	41
<i>B. K. Tiwari and R. Sharma, Indian Institute of Technology Madras, India</i>	
THE IMPACT OF SEA CURRENT ON UNDERWATER TRANSPORTATION USING FOUR AUVS	49
<i>F. U. Rehman, E. Anderlini and G. Thomas, University College London, UK</i>	
PAVING THE WAY TOWARD AUTONOMOUS SHIPPING DEVELOPMENT FOR EUROPEAN WATERS – THE AUTOSHIP PROJECT	59
<i>V. Bolbot, G.Theotokatos, E. Boulougouris, University of Strathclyde, UK</i>	
<i>L.A. L. Wennersberg, H. Nordahl, Ø. J. Rødseth SINTEF, Norway</i>	
<i>J. Faivre, BUREAU VERITAS Marine & Offshore, France</i>	
<i>M. Molica Colella CiaoTech (PNO Group), Italy</i>	