

2016 3rd IEEE/OES South American International Symposium on Oceanic Engineering (SAISOE 2016)

**Buenos Aires, Argentina
15 – 17 June 2016**



**IEEE Catalog Number: CFP16SAK-POD
ISBN: 978-1-5386-1827-1**

**Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP16SAK-POD
ISBN (Print-On-Demand):	978-1-5386-1827-1
ISBN (Online):	978-1-5386-1826-4

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
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

3RD IEEE/OES SOUTH AMERICAN INTERNATIONAL SYMPOSIUM ON OCEANIC ENGINEERING	1
<i>G. G. Acosta</i>	
UNDERWATER ACOUSTIC CHANNEL MODEL FOR SHALLOW WATERS.....	3
<i>B. V. Menna, G. G. Acosta, S. A. Villar</i>	
"PEPE": A NOVEL LOW COST DRIFTING VIDEO SYSTEM FOR UNDERWATER SURVEY	10
<i>G. A. Trobbiani, A. J. Irigoyen</i>	
TECHNOLOGICAL EVALUATION OF A FRESH WATER BATHYMETRY SYSTEM	14
<i>S. Abbate, J. Areta</i>	
PREDICTION OF THE HYDRODYNAMIC COEFFICIENTS OF AN AUTONOMOUS UNDERWATER VEHICLE.....	18
<i>A. Petit, C. Paulo, I. Carlucho, B. Menna, M. De Paula</i>	
COMPARISON OF A PID CONTROLLER VERSUS A LQG CONTROLLER FOR AN AUTONOMOUS UNDERWATER VEHICLE.....	24
<i>I. Carlucho, B. Menna, M. De Paula, G. G. Acosta</i>	
USING MULTILEVEL COMPLEMENTARY SETS OF SEQUENCES FOR ACOUSTIC SIGNALS EMISSION IN UNDERWATER LINKS	30
<i>S. Murano, M. Colombo, J. Aparicio, A. Jimenez, C. De Marziani, C. Perez, J. Gallardo, R. Alcoleas</i>	
ARTIFICIAL POTENTIAL FIELDS FOR THE OBSTACLES AVOIDANCE SYSTEM OF AN AUV USING A MECHANICAL SCANNING SONAR.....	36
<i>F. J. Solari, A. F. Rozenfeld, S. A. Villar, G. G. Acosta</i>	
TIDAL POWER STATIONS BY ARTIFICIAL "ALBÚFERAS" IN ARGENTINA.....	42
<i>L. Bertani, C. Labriola, A. Machegiani, O. Audisio</i>	
Author Index	