

2016 IEEE Winter Applications of Computer Vision Workshops (WACVW 2016)

**Lake Placid, New York, USA
10 March 2016**



**IEEE Catalog Number: CFP16B39-POD
ISBN: 978-1-5090-2115-4**

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

IEEE Catalog Number:	CFP16B39-POD
ISBN (Print-On-Demand):	978-1-5090-2115-4
ISBN (Online):	978-1-5090-2114-7

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

Low Resolution Vehicle Re-Identification Based on Appearance Features for Wide Area Motion Imagery	1
<i>M. Cormier, L. W. Sommer, M. Teutsch</i>	
Scene-Independent Feature- and Classifier-Based Vehicle Headlight and Shadow Removal in Video Sequences	8
<i>Q. Li, E. A. Bernal, M. Shreve, R. P. Loce</i>	
Superpixels Shape Analysis For Carried Object Detection	16
<i>B. Delgado, K. Tahboub, E. J. Delp</i>	
Efficient Object Annotation for Surveillance and Automotive Applications	22
<i>S. Swetha, A. Mishra, G. M. Hegde, C. V. Jawahar</i>	
Filling in the Blanks: Reconstructing Microscopic Crowd Motion from Multiple Disparate Noisy Sensors	28
<i>S. Yoon, M. Kapadia, P. Sahu, V. Pavlovic</i>	
Image Surveillance Assistant	37
<i>M. Maynard, S. Bhattacharya, D. W. Aha</i>	
Model-less and Model-based Computationally Efficient Motion Estimation for Video Compression in Transportation Applications	44
<i>E. A. Bernal, Q. Li, O. Bulan, W. Wu, S. Schweid</i>	
Unsupervised Underwater Fish Detection Fusing Flow and Objectiveness	52
<i>D. Zhang, G. Kopanas, C. Desai, S. Chai, M. Piacentino</i>	
Detecting Plains and Grevy’s Zebras in the Real World	59
<i>J. Parham, C. Stewart</i>	
Author Index	