

# **Cyber-Security for Urban Transport Systems 2016**

Developing Secure Transport Systems in  
Future Cities

IET Seminar Digests 2016/15803

London, United Kingdom  
24 February 2016

ISBN: 978-1-5108-2391-4

**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© (2016) by the Institution of Engineering and Technology  
All rights reserved.

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact the Institution of Engineering and Technology  
at the address below.

Institution of Engineering and Technology  
P. O. Box 96  
Stevenage, Hertfordshire  
U.K. SG1 2SD

Phone: 01-441-438-767-328-328  
Fax: 01-441-438-767-328-375

[www.theiet.org](http://www.theiet.org)

**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](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# TABLE OF CONTENTS

<b>Cyber Security in Intelligent Mobility Transport Systems Catapult</b> .....	1
<i>Martin Hill</i>	
<b>Rail Transport Security</b> .....	10
<i>Darren Hepburn</i>	
<b>Aligning Safety and Security Systems for Connected Vehicles</b> .....	21
<i>D. Ward</i>	
<b>GNSS Receivers and the Cyber Threat</b> .....	35
<i>J. Pottle, G. Buesnel</i>	
<b>A Practitioner's Perspective Lessons from Water</b> .....	44
<i>D. Essex</i>	
<b>Author Index</b>	