

System Engineering Test and Evaluation Conference 2004

(SETE 2004)

**Adelaide, Australia
8-10 November 2004**

ISBN: 978-1-61839-660-0

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© (2004) by RMIT Publishing
All rights reserved.

Printed by Curran Associates, Inc. (2012)

For permission requests, please contact RMIT Publishing
at the address below.

RMIT Publishing
PO Box 12058, A'Beckett Street
Melbourne Victoria 8006
Australia

Phone: +61 3 9925 8265

publish@rmitpublishing.com.au

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Innovation Acceptance: A Case Study of a Soft Systems Approach to Software Development of New Products	1
<i>Kay Fielden</i>	
On Identifying a Methodology for the Integration of Commercial-Off-The-Shelf Products into Research Software Systems.....	17
<i>Stephane Collignon, Stephen Cook</i>	
ICDM – An Integrated Methodology for the Conceptual Design of New Systems.....	35
<i>Menachem P. Weiss, Amihud Hari, Rafael Avigdor Zonnenshain</i>	
Capability for Complex Systems: Beyond Competence	51
<i>Stewart Hase, Boon Hou Tay</i>	
A Scenario-based Training System for a Railway Service Provider in Singapore.....	60
<i>Boon Hou Tay, Kee Pong Lim</i>	
Application of the Risk & Time to Market Analysis (RTA) Method in Project Management – A Case Study	71
<i>Yerobal Rog, Amihud Hari, Menachem Weiss</i>	
To DT&E or OT&E, that is the Question!	85
<i>Matthew Kennedy</i>	
A Systems Approach to the Design of Data Cycle Maps for the Flight-Testing of Air Vehicles	92
<i>Michael Harris</i>	
Requirements Management Tool Evaluation Criteria an Update.....	100
<i>John M. Smith</i>	
Network-Enabled Connectivity – Key to Full Spectrum RDT&E.....	124
<i>Viv Crouch</i>	
Artefacts and Use of Artefacts	137
<i>Timothy L. J. Ferris</i>	
Interference Between Propagating Changes and its Effect on System Failure.....	152
<i>John Mansfield</i>	
Root Causes of Terrorism - A Systems View	164
<i>Eyoel Teffera, Geetha Sadagopan, Rick Nunes-Vaz</i>	
Is Aviation Safety a Self-Organising Critical System?	179
<i>David Harris</i>	
Achieving Successful Project Outcomes through Capacity-Building: A Case Example of International Environmental Policy and Management.....	188
<i>Roger Attwater, Ling Attwater, Sandy Booth, Cai Mantang</i>	
Projects for Learning – A Case Study.....	198
<i>Rod Sarah, Tim Haslett</i>	
A Systemic Model for Strategic Human Resource Management.....	212
<i>John Molineux, Tim Haslett</i>	
Engaging Communities of Practice for Risk Communication in the Hawkesbury Water Recycling Scheme	227
<i>Roger Attwater, Chris Derry</i>	
A National Approach to Systems Integration of Large Complex Systems.....	237
<i>L. Sciacca, S. Cook, B. Bates, D. Nandagopal, S. Allison, D. Shackleton</i>	
Using the US Department of Defense Architecture Framework (DoDAF) in Reengineering Product Development Information	248
<i>Henson Graves, Chris O'Donnell, Russ Campbell</i>	
Development of a Flexible Computer Assisted Systems Engineering Tool for Small Teams	280
<i>Brett Robertson, David Radcliffe</i>	
Using Multi-Dimensional Knowledge Domain Analysis (MD-KDA) for Systems Meta-Modelling.....	290
<i>Martin Kew</i>	
Development and Application of a Context-free Grammar for Requirements	334
<i>William Scott, Stephen Cook, Joseph Kasser</i>	
Test and Evaluation - Valuable to Defence.....	342
<i>Tony Ross</i>	
Management of EMC in Ageing Aircraft in the Australian Defence Force.....	356
<i>Tac Furnell, Michael Harris</i>	

Planning for Success at the Woomera Test Range	365
<i>Steve Impett, Malcolm Tutty</i>	
Test & Evaluation - Visions of Future Success	372
<i>Peter Campbell</i>	
The Role of Modelling and Simulation in Military and Systems Engineering	381
<i>David H. Cropley, Peter A. Campbell</i>	
Simulation of Human Process Oriented Behaviour for System of System's Integration Analysis	392
<i>Peter Campbell</i>	
Transmogrification: From Causal Maps To Coded System Dynamics Models	401
<i>N/A</i>	
Small Wind Turbine Power System Scenario Simulation System Scenario Simulation System (SWTP4S) by Using UML Method	419
<i>Jung-Huang Liao, Tao-Pang Hsiung</i>	
Empirical ERP Acquisition Framework – Critical Investigative Model for ERP Acquisitions	426
<i>Asif Ijaz Sheikh</i>	
Enquiry into Organisational Operational Behaviour Twelve Lessons Learnt	442
<i>Les Vencel, Elizabeth Sweetman</i>	
Research on Automated Test Case Generation Model for Complicated Interactive Software	451
<i>Ge-Feng Lv, Bei-Ji Zou, Hao-Yu Zhou</i>	
Author Index	