

54th Annual Conference of the Human Factors and Ergonomics Society of Australia (HFESA 2019)

Being Human and Beyond

Canberra, Australia
24 – 26 November 2019

ISBN: 978-1-7138-0619-6

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© (2019) by Human Factors and Ergonomics Society of Australia Inc. (HFESA)
All rights reserved.

Printed with permission by Curran Associates, Inc. (2021)

For permission requests, please contact Human Factors and Ergonomics Society of Australia Inc. (HFESA)
at the address below.

Human Factors and Ergonomics Society of Australia Inc. (HFESA)
Suite 18, Hills Corporate Centre
11-13 Brookhollow Avenue
Baulkham Hills NSW 2153
Australia

Phone: (02) 9680-9026

Fax: (02) 9680-9027

secretariat@ergonomics.org.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: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

HUMANISING NON-HUMAN SYSTEMS: THE ROLE OF HUMAN FACTORS AND ERGONOMICS IN ARTIFICIAL GENERAL INTELLIGENCE SYSTEM DESIGN	1
<i>P. Salmon, T. Carden, P. Hancock</i>	
WORK DOMAIN ANALYSIS OF CRYPTOLAUNDERING ACTIVITIES	11
<i>D. Desmond</i>	
HFE AND CYBERCRIME: USING SYSTEMS ERGONOMICS TO DESIGN DARKNET MARKETPLACE INTERVENTIONS	17
<i>B. Lane, P. Salmon, D. Desmond, A. Cherney, G. Kulatilleke, N. Stanton</i>	
FORECASTING EMERGENT RISKS IN THE WORK SYSTEMS OF THE FUTURE: THE FINAL FRONTIER FOR HUMAN FACTORS AND ERGONOMICS	31
<i>C. Dallat, P. Salmon, N. Goode</i>	
NEAR MISSES IN FUTURE WORK SYSTEMS: APPLYING A MULTI-METHOD SYSTEMS ANALYSIS APPROACH FOR DETERMINING EFFECTIVE WORK PRACTICE IN NEAR MISSES	41
<i>B. Thoroman</i>	
GOLDSLOCKS ON A TRAIN: KEY LEARNINGS FOR REDUCING SEDENTARY BEHAVIOUR IN COMPLEX WORK ENVIRONMENTS	50
<i>A. Naweed, J. Chapman, C. Vandelanotte, A. Holtermann, L. Straker</i>	
ARE WORKPLACE PSYCHOSOCIAL HAZARDS BEING EFFECTIVELY MANAGED?	65
<i>C. Jayne, J. Robertson</i>	
USING MBSE TO PROVIDE INSIGHT INTO THE SYSTEMS ERGONOMICS ISSUES IN INTRODUCING FUTURE TECHNOLOGIES WITHIN THE REAIL INDUSTRY	77
<i>G. Kennedy</i>	
USING COGNITIVE WORK ANALYSIS TO EXPLORE FUTURE CHANGES TO THE WORK OF HUMAN FACTORS & ERGONOMICS PRACTITIONERS	96
<i>G. Read, K. Schultz, N. Goode, P. Salmon</i>	

Author Index