

# Contents

## **Part I Dynamic PMESII Modeling in Complex Environments**

<b>Expeditionary Modeling for Population-Centric Operations in Megacities: Some Initial Experiments . . . . .</b>	<b>3</b>
Brian Kettler and Jennifer Lautenschlager	
<b>Time-Series Analysis of Blog and Metaphor Dynamics for Event Detection . . . . .</b>	<b>17</b>
Brian J. Goode, Juan Ignacio M. Reyes, Daniela R. Pardo-Yepez, Gabriel L. Canale, Richard M. Tong, David Mares, Michael Roan and Naren Ramakrishnan	
<b>Using Stories to Deepen Shared Human-Computer Understanding of PMESII Systems . . . . .</b>	<b>29</b>
Robert E. Wray, Jeremiah T. Folsom-Kovarik, Dylan Schmorow, Randolph M. Jones and Robert Marinier	
<b>Modeling Causal Relationships in Sociocultural Systems Using Ensemble Methods . . . . .</b>	<b>43</b>
Amy Sliva, Scott Neal Reilly, David Blumstein, Steve Hookway and John Chamberlain	

## **Part II Cross-Cultural Comparisons in Business, Education, and Outlook**

<b>Difference Analysis of Impression on Japan from Chinese Students with Different Education Stages . . . . .</b>	<b>59</b>
Xiaohong Zhang, Jianwen Xiang, Shengwu Xiong, Haowen Li and Bixiang Li	
<b>Dynamics of National Culture and Employee Characteristics on Organizational Commitment in Retail Banks in Ghana . . . . .</b>	<b>71</b>
Mohammed-Aminu Sanda	

**Cross-Cultural Competence and Functional Diversity  
in Business Negotiations: A Developing Country's Perspective . . . . .** 85  
Anku-Tsede Olivia and Believe Quaqoo Dedzo

**Investigation of Cultural Bias Using Physiological Metrics . . . . .** 99  
Renee Rigrish and Mary Fendley

**Effects of Price of Zero on Decision Making: An Attempt  
to Generalize Human's Irrational Behavior to Price of Zero . . . . .** 109  
Atsuo Murata, Yasunari Matsushita and Makoto Moriwaka

### **Part III Human-Machine Interactions and Tools Beyond**

**Culture in the Cockpit: Implications for CRM Training . . . . .** 119  
Simon Cookson

**Irrational Behavior in Adaptation: Difference  
of Adaptation Process to Comfort and Discomfort  
Stimulus When Presented All Together or Intermittently . . . . .** 133  
Atsuo Murata and Tomoko Nakamura

### **Part IV Foreign Relations: Tools and Analyses**

**Evaluating Automatic Learning of Structure  
for Event Extraction . . . . .** 145  
Jason Schlachter, David Van Brackle, Luis Asencios Reynoso,  
James Starz and Nathanael Chambers

**Scenario-Based Practical Exercises to Train  
and Assess General Cross-Cultural Competence  
for Special Operations Forces . . . . .** 159  
Julio C. Mateo, Michael J. McCloskey, Clayton D. Leishman  
and Marla Federe

### **Part V Toward Culturally-Aware Systems**

**Toward Culturally-Aware, Next Generation Learning  
Ecosystems . . . . .** 173  
Elaine M. Raybourn

**Investigating Cross-Cultural Differences in Trust Levels  
of Automotive Automation . . . . .** 183  
Valarie A. Yerdon, Tiffani A. Marlowe, William G. Volante,  
Shuling Li and P.A. Hancock

**Evaluating Instructor Configurability for Adaptive Training . . . . .** 195  
Robert E. Wray, Angela Woods, Joshua Haley and Jeremiah  
T. Folsom-Kovarik

<b>Backstory Elaboration: A Method for Creating Realistic and Individually Varied Cultural Avatars . . . . .</b>	207
Drew A. Zachary, Wayne Zachary, Janis Cannon-Bowers and Thomas Santarelli	
<b>The Preference of Using Social Media by Different Attachment Styles for Managing Romantic Relation . . . . .</b>	219
Wen-Chien Lin and Yu-Chen Hsu	
<b>Part VI Contemporary Defense Applications of Social Science</b>	
<b>Considering Culture in Contemporary Military Interventions: Simulating the Effects of Actions of Influence on a Civilian Population . . . . .</b>	225
Bergier Jean-Yves and Colette Faucher	
<b>Development of a Competency Model for Civil-Military Teaming . . . . .</b>	237
Karol G. Ross, Michelle Wisecarver, Carol A. Thorndon, Deborah A. Peluso and Melinda Key-Roberts	
<b>A Planning Tool for Interaction with Influential Actors Based on Paraconsistent Logic . . . . .</b>	251
Peter Svenmarck, Eric Sjöberg and Christophe Fagot	
<b>The Effects of Demographic and Sociocultural Variables on 3rd Year ROTC Cadets Officer/Evaluator Rating Scores . . . . .</b>	265
David R. Scribner	
<b>Part VII Sociocultural, Behavioral Modeling for Defense Applications: Theory and Practice</b>	
<b>The Conundrum of Verification and Validation of Social Science-Based Models Redux . . . . .</b>	279
Heidi Ann Hahn	
<b>Socio-cultural Modeling and Dynamic Decision Making . . . . .</b>	293
Orélie Desfriches Doria, Peter Svenmarck and Christophe Fagot	
<b>Examining the, Ideological, Sociopolitical, and Contextual Factors Underlying the Appeal of Extremism . . . . .</b>	307
Grace-Rose Williams, Michael L. Bernard and Robert F. Jeffers	

<b>Using Computational Modeling to Examine Shifts Towards Extremist Behaviors in European Diaspora Communities . . . . .</b>	<b>321</b>
Asmeret Bier Naugle and Michael L. Bernard	
<b>A Statistical Approach to the Subnational Geolocation of Event Data . . . . .</b>	<b>333</b>
Jennifer Lautenschlager, James Starz and Ian Warfield	
<b>Tweet Sentiment Analysis with Pronoun Choice Reveals Online Community Dynamics in Response to Crisis Events. . . . .</b>	<b>345</b>
Samira Shaikh, Laurie Beth Feldman, Eliza Barach and Yousri Marzouki	



<http://www.springer.com/978-3-319-41635-9>

Advances in Cross-Cultural Decision Making  
Proceedings of the AHFE 2016 International Conference on  
Cross-Cultural Decision Making (CCDM), July 27-31, 2016,  
Walt Disney World®, Florida, USA  
Schatz, S.; Hoffman, M. (Eds.)  
2017, XII, 356 p. 78 illus., 57 illus. in color., Softcover  
ISBN: 978-3-319-41635-9