

Papers and Journals 2017

1. Autonomy V&V Workshop Trip Report

Dan Lordan

The Verification and Validation (V&V) of Autonomous Systems Workshop was held August 29-30 at the Center for Leadership Excellence in Bethesda, MD.

2. Binary Complementary Code Structure via a Simple Necessary Condition

Gregory E. Coxson; William Haloupek; Jon Russo

IEEE Transactions on Aerospace and Electronic Systems

Year: 2017, Volume: 53, Issue: 4

3. Challenges and Opportunities in Gray Zone Combat

Authors: Mark Hoffman, Martin Hofmann

8th International Conference on Applied Human Factors and Ergonomics (AHFE 2017), 6th International Conference on Cross-Cultural Decision Making, Los Angeles, CA, July 17-21, 2017

4. Communications Aware Decentralized Model Predictive Control for Path Planning within UUV Swarms

Authors: Alex Abad, Nick DiLeo and Kingsley Fregene

2017 IEEE Conference on Control Technology and Applications (CCTA)

5. Decentralized Model Predictive Control for UUV Collaborative Missions

Authors: Alex Abad, Nick DiLeo and Kingsley Fregene

OCEANS is Sept 18-21, 2017

6. Enabling Mixed Method Modeling Through the Use of Causal Networks

Authors: James Starz, Jennifer Lautenschlager, Tim Siedlecki, and Luis Asencios Reynoso

8th International Conference on Applied Human Factors and Ergonomics (AHFE 2017), 6th International Conference on Cross-Cultural Decision Making, Los Angeles, CA, July 17-21

7. Enhanced Spectrum Awareness using Bayesian Nonparametric Pattern Recognition Techniques

Gabriel Ford, Sean Mason and Kevin Rigney

IEEE 2017 Conference on Information Sciences and Systems

March 22-24, 2017.

8. [Enumeration and Generation of PSL Equivalence Classes for Quad-Phase Codes of Even Length](#)
Gregory Emmett Coxson; Jon Carmelo Russo
IEEE Transactions on Aerospace and Electronic Systems
Year: 2017, Volume: 53, Issue: 4
Pages: 1907 - 1915
9. **A fast track approach towards automatic detection of Gray Zone activities from text**
Authors: Jason Schlachter and Jennifer Lautenschlager
8th International Conference on Applied Human Factors and Ergonomics (AHFE 2017), 6th International Conference on Cross-Cultural Decision Making, Los Angeles, CA, July 17-21
10. [Geo-tagged Social Media Data as a Proxy for Urban Mobility](#)
Authors: Cheng Qian, Philipp Kats, Sergey Malinchik, Mark Hoffman, Brian Kettler, Constantine Kontokosta, Stanislav Sobolevsky
8th International Conference on Applied Human Factors and Ergonomics (AHFE 2017), 6th International Conference on Cross-Cultural Decision Making,
Los Angeles, CA, July 17-21, 2017
11. [How Intelligence Analysts are Using Artificial Intelligence - WEBT article](#)
Authors: Phil DiBona and Samantha Kupersmith
Lockheed Martin We're Engineering a Better
12. [Human/Autonomy Collaboration for the Automated Generation of Intelligence Products](#)
Authors: Phil DiBona and Jason Schlachter
SPIE Defense + Commercial Sensing: Next-Generation Analyst V Conference in Anaheim, CA,
April 10
13. [Interactive Pattern Discovery in High-Dimensional, Multimodal Data using Manifolds](#)
Authors: Katherine Guo and Martin Hofmann
CAS 2017 Oct.30-Nov.1.
14. [Integrated Photonics Technology and RF over Fiber](#)
Authors: Brian Uhlhorn and Rick Stevens
Government Microcircuit Applications & Critical Technology (GOMACTech) Conference 2017
March 20-23, 2017
15. **Keeping Autonomy in Mind: Building Closed-Loop Human-Machine Team Performance Improvement Systems**
Authors: Matthew Pava, Bartlett Russell, William Casebeer
IEEE CogSIMA 2017
March 26

16. Neurofeedback for Personalized Adaptive Training

Authors: Matthias Ziegler and Amanda Kraft

8th International Conference on Applied Human Factors and Ergonomics (AHFE 2017), 6th International Conference on Cross-Cultural Decision Making, Los Angeles, CA, July 17-21

17. [A Systematic Approach to Developing Near Real-Time Performance Predictions Based on Physiological Measures](#)

Authors: Bartlett Russell, William Casebeer, Matthias Ziegler, Amanda E. Kraft, Jon Russo, Michael Krein

IEEE CogSIMA 2017

March 27-31 2017

18. [Underwater Image Mosaicking and Visual Odometry](#)

Authors: Firooz Sadjadi, Sekhar Tangirala, Scott Sorber,

SPIE Automatic Target Recognition Conference, April 2017