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  
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  

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