

## Publications

### Referred Journal Articles

Hoffman, E., **Jones, R.**, Donato, L., Seifu, D., & Oliver, F.W. (2000). Mössbauer spectroscopy of the colony meteorite. *Il Nuovo Cimento*, 23(2), 133-137.

**Jones, R.E.T.**, Connors, E.S., Mossey, M.E., Hyatt, J.R., Hansen, N.J., & Endsley, M.R. (2012). Using fuzzy cognitive mapping techniques to model situation awareness for Army Infantry Platoon Leaders. *Computational Mathematical Organizational Theory*, Springer.

McNeese, M., **Jones, R. E.**, Brewer, I., Connors, E., Bains, P., Terrell, I., & Jefferson T. (under review). Understanding work in the intelligence community: Acquiring knowledge from expert image analysts. *International Journal of Cognition, Technology, and Work*

### Conference Papers

Bland, P.A., Hoffman, E., **Jones, R.**, Cressey, G., & Cadogan, J.M. (1999). Magnetite in 'oxidized' and 'reduced' cv chondrites. *Proceedings of Lunar and Planetary Institute - 62<sup>nd</sup> Annual Meeting of the Meteoritical Society*. Houston, TX: Lunar and Planetary Institute. Available at: <http://www.lpi.usra.edu/meetings/metsoc99/pdf/5197.pdf>.

El-Nasr, M.S., **Jones, R. E. T.**, & McNeese, M.D. (2004). A scalable and extensible interactive scenario architecture for distributed command and control simulations. *Proceedings of 2004 Command and Control Research and Technology Symposium*. Vienna, VA: Command and Control Research Program.

**Jones, R.E.T.**, Connors, E.S., & Endsley, M.R. (2011). A framework for representing agent and human situation awareness. *Proceedings of the International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support (CogSIMA)*. Miami, FL: IEEE.

**Jones, R.E.T.**, Connors, E.S., Mossey, M.E., Hyatt, J.R., Hansen, N.J., & Endsley, M.R. (2010). Modeling situation awareness for Army Infantry Platoon Leaders using fuzzy cognitive mapping techniques. *Proceedings of the 19th Conference on Behavior Representation in Modeling and Simulation (BRIMS)*. Sundance, UT. (Awarded Best Conference Paper).

**Jones, R.E.T.**, Mossey, M., & Endsley, M.R. (2010). Website usability design principles for the elderly. *Proceedings of the 3rd Applied Human Factors and Ergonomics (AHFE) International Conference*. Miami, FL.

**Jones, R. E.**, Strater, L. D., Riley, J. M., Connors, E. S., & Endsley, M. R. (2009). Assessing automation for aviation personnel using a predictive model of SA. *AIAA SPACE 2009 Conference and Exposition*. Reston, VA: AIAA.

- Jones, R. E. T.**, Connors, E. S., and Endsley, M. R. (2009). Incorporating the human analyst into the data fusion process by modeling situation awareness using fuzzy cognitive maps. *Proceedings of the Twelfth International Conference on Information Fusion*. Seattle, WA.
- Jones, R. E. T.**, Jefferson, Jr., T., Connors, E. S., McNeese, M. D., and Obieta, J. F. (2005). Exploring fuzzy cognitive maps for use in a crisis-management simulation. *Conference on Behavior Representation in Modeling and Simulation*.
- Jones, R.E.T.**, McNeese, M.D., Connors, E.S, Jefferson T, & Hall, D. L. (2004). A Distributed cognition simulation involving homeland security and defense: The Development of NeoCITIES. *Proceedings of the 48<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society.
- McNeese, M. D., Connors, E. S., **Jones, R. E. T.**, Terrell, I. S., Jefferson, T. Jr., Brewer, I., and Bains, P. (2005). Encountering computer-supported cooperative work via the living lab: Application to emergency crisis management. *Proceedings of the 11th International Conference on Human-Computer Interaction*, Las Vegas, NV. [equal contributions by authors]
- McNeese, M. D., Bains, P., Brewer, I., Brown, C. E., Connors, E. S., Jefferson, T., **Jones, R. E.**, & Terrell, I. S. (2005). The NeoCITIES Simulation: Understanding the design and methodology used in a team emergency management simulation. *Proceedings of the Human Factors and Ergonomics Society 49<sup>th</sup> Annual Meeting* (pp. 591-594), Santa Monica, CA.
- McNeese, M.D., Jefferson, T., Bains, P., Brewer, I., Brown, C., Connors, E.S., **Jones, R.E.**, & Terrell, I.S. (2005). Assessing the Impact of Hidden Knowledge Profiles on Distributed Cognition and Team Decision-Making: Recounting the Development of the NeoCITIES Simulation. [in press]
- O'Donovan, J., Jones R., Marusich, L., Teng, Y., Gonzalez, C., & Höllerer, T. (2013). A Model-based Evaluation of Trust and Situation Awareness in the Diner's Dilemma Game. *Proceedings of the 22th Behavior Representation in Modeling & Simulation Conference (BRIMS)*. Ottawa, Canada.
- Teng, Y., **Jones, R.**, Marusich, L., O'Donovan, J. , Gonzalez, C., & Höllerer ,T. Trust and Situation Awareness in a 3-Player Diner's Dilemma Game, *Proceedings of the 3rd IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support (CogSIMA 2013)*, San Diego, CA.

## Book Chapters

**Jones, R.E.T.**, Bolstad, C., Horn, D., Anderson, T., & Endsley, M.R. (2013). Disaster Management Systems. In T. Smith-Jackson, M. Resnick, K. Johnson, & S. Artis (Eds), *Cultural Ergonomics: Theories, Methods, and Applications*. CRC Press.

McNeese, M.D., Brewer, I., **Jones, R.E.T.**, Connors, E.S. (2013). Supporting Knowledge Management in Emergency Crisis Management Domains: Envisioned Designs for Collaborative Work. In Popp & Yen (Eds.) *Emergent Information Technologies and Enabling Policies for Counter-Terrorism*. Wiley, & Sons, Inc., Hoboken, New Jersey.

McNeese, M. D., Brewer, I., Connors, E., & **Jones, R.** (2006). Utilizing intelligent-group-interfaces to prevent terrorist attack: A distributed cognition perspective. In Yen, J. & Popp, R. (Eds.). *21<sup>st</sup> Century enabling technologies and policies for counter-terrorism*. Englewood Cliffs, NJ: Prentice-Hall.

### Technical Reports

Bolstad, C.A., Costello, A.M., Cuevas, H.M., and **Jones, R.E.T.** (2011). *Cognitive Readiness Evaluation and Augmentation Tool for Operational Readiness (CREATOR)* (Tech. Rep. No. N65236-11-P-0239). Marietta, GA: SA Technologies, Inc. Report to the Space and Naval Warfare Systems Center Atlantic (SPAWAR).

Colony, M., Adleson, R., Connors, E.S., **Jones, R.E.T.**, and Endsley, M.R. (2010). *A Comprehensive Study Of Requirements And Metrics For Cyber Defense Situational Awareness* (Tech. Rep. No. BAA-08-08-RIKA). Decisive Analytics Corporation. Report to the Air Force Research Laboratory (AFRL).

Connors, E.S. and **Jones, R.E.T.** (2011). *Situation Awareness Requirement Analysis of the Bronx/Westchester Distribution Control Center* (Tech. Rep. No. W15P7T-11-C-A643). Marietta, GA: SA Technologies, Inc. Report to Consolidated Edison (ConEdison).

**Jones, R.E.T.** and Connors, E.S. (2011). *Problem Conceptualization & Resolution of Network Problems in Tactical Environments* (Tech. Rep. No. W15P7T-11-C-A643). Marietta, GA: SA Technologies, Inc. Report to the US Army Communications-Electronics Research (CERDEC) .

**Jones, R.E.T.** and Connors, E.S. (2010). *Problem Conceptualization & Resolution of Network Problems in Tactical Environments* (Tech. Rep. No. W15P7T-10-C-S208). Marietta, GA: SA Technologies, Inc. Report to the US Army Communications-Electronics Research (CERDEC) .

McNeese, M. D., Connors, E., Jefferson, T., Bains, P., **Jones, R.**, Terrell I., Brewer I., Craven, P., Van Vactor, J., Rotthoff, E., & Hall, D. (2004). *An Assessment of Image Analyst Work Using the Living Laboratory Framework* (Tech. Rep. No. 0017). University Park, Pennsylvania: Pennsylvania State University, School of Information Sciences and Technology. Report to the National Geospatial-intelligence Agency (NGA). Washington DC.

- McNeese, M. D., Connors, E., Jefferson, T., Terrell, I., **Jones, R.**, & Bains, P. (2003). *An Interdisciplinary Approach to Distributed Cognition: New Applications of Theory, Research, Technology, and Practice* (Tech. Rep. No. 0016). University Park, Pennsylvania: Pennsylvania State University, School of Information Sciences and Technology. Report to the Office Naval Research.
- Strater, L.D., Cuevas, H.M., **Jones, R.E.T.**, McDonald, S., Bolstad, C. A., and Endsley, M.R. (2011). *Improving Team Cognitive Readiness through the Multi-Agent System for Targeting Team Mental Models (MAST-TMM)* (Tech. Rep. No. N00014-11-M-0123). Marietta, GA: SA Technologies, Inc. Report to the Office of the Deputy Secretary of Defense.
- Strater, L.D., Lenox, M., Riley, J.M., **Jones, R.E.T.**, Costello, A.M., and Endsley, M.R. (2011). *A Predictive Tool to Support Personnel Reliably Operating with Automation for Airportal Configuration and Technology Interaction Using Virtual Environments (PROACTIVE) for Simulated Airportal Operations* (Tech. Rep. No. NNA09BC67C). Marietta, GA: SA Technologies, Inc. Report to the NASA Ames Research Center
- Strater, L.D., Lenox, M., Riley, J.M., **Jones, R.E.T.**, Costello, A.M., and Endsley, M.R. (2010). *A Predictive Tool to Support Personnel Reliably Operating with Automation for Airportal Configuration and Technology Interaction Using Virtual Environments (PROACTIVE) for Simulated Airportal Operations* (Tech. Rep. No. NNA08BC67C). Marietta, GA: SA Technologies, Inc. Report to the NASA Ames Research Center.

## Digital

- Jones, R. E.** (2006). The Development of an Emergency Crisis Management Simulation to Assess the Impact A Fuzzy Cognitive Map Decision-Aid Has on Team Cognition and Team Decision-Making . Retrieved from Networked Digital Library of Theses and Dissertations. (ETD 1476).

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## Journal Articles Reviewed

- Journal of Cognitive Engineering and Decision Making (JCEDM)
  - Human Factor and Ergonomics Society (HFES)
  - IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness (CogSIMA)
  - IEEE Intelligent Systems.
  - ACM SIGCHI International Conference on Advances in Computer Entertainment Technology (ACE).
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## Professional Presentations

- Examining the Need for Situation Awareness in Cyber Defense, presented at the US Government Forum of Incident Response (GFIRST) conference, in Atlanta, GA (Aug 2012).
- Adapting the Situation Awareness-Fuzzy Cognitive Map (SA-FCM) to Provide Support for Maintenance Work Prioritization Decisions, presented to Consolidated Edison (ConEd) (Jan – Jun 2012).
- Problem Conceptualization & Resolution of Network Problems in Tactical Environments, presented to US Army Communications-Electronics Research, in Ft. Monmouth, NJ (2010-current)
- Cognitive Readiness Evaluation and Augmentation Tool for Operational Readiness, presented to Office of the Deputy Secretary of Defense (Oct 2011).
- Team and Shared Situation Awareness in Disaster Action Teams, presented at the Human Factors and Ergonomics Society (HFES) conference, in San Francisco, CA (Oct 2011).
- Improving Team Cognitive Readiness through the Multi-Agent System for Targeting Team Mental Models (MAST-TMM), presented to the Office of the Deputy Secretary of Defense (Aug 2011).
- A Framework for Representing Agent and Human Situation Awareness, presented at the IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness (CogSIMA), in Miami, FL (Feb 2011).
- Situation Awareness Requirement Analysis, presented to Consolidated Edison (ConEd), in Westchester, NY (Jan 2011).
- Predictive Tool to Support Personnel Reliably Operating with Automation for Airportal Configuration and Technology Interaction Using Virtual Environments (PROACTIVE) for Simulated Airportal Operations, presented to the NASA Ames Research Center (2009-2011).
- Website Usability Design Principles for the Elderly: Designing a Solution for the Red Cross, presented at the Applied Human Factors and Ergonomics (AHFE) conference, in Miami, GA (July 2010).
- A Comprehensive Study of Requirements and Metrics for Cyber Defense Situational Awareness, presented to the Air Force Research Lab (AFRL), in Rome, NY (April 2010).
- PinPoint Technology Solution for Red Cross Organization, presented to the Red Cross, in Atlanta, GA (Dec, 2009).

- Assessing Automation for Aviation Personnel using a Predictive Model of SA, presented at the conference for the American Institute of Aeronautics and Astronautics (AIAA), in Los Angeles, CA (Sept 2009).
- Incorporating the Human Analyst into the Data Fusion Process by Modeling Situation Awareness Using Fuzzy Cognitive Maps, presented at the Fusion conference, in Seattle, WA (July 2009).
- Modeling Situation Awareness for Army Infantry Platoon Leaders Using Fuzzy Cognitive Mapping Techniques, presented at the Behavior Representation in Modeling and Simulation (BRIMS) conference, in Charleston, SC (Mar 2009).
- Developing a Score Function to Assess Team Performance in NeoCITIES, presented to Lockheed Martin at Pennsylvania State University (Mar 2005).
- A Distributed Cognition Simulation Involving Homeland Security and Defense: The Development of NeoCITIES, presented at the conference on the Human Factors and Ergonomics Society (HFES), in New Orleans, LA. (Sept 2004).
- A User-Centric Adaptive Story Architecture: Borrowing from Acting Theories, presented at International Conference on Advances in Computer Entertainment Technology (ACE), in Singapore. Presented in place of original author, Magy Seif El-Nasr. (June 2004).
- The NeoCITIES Knowledge Management Simulation Task, presented to ONR sponsors, at Pennsylvania State University. (Dec 2003).
- Acquiring, Accessing, Assessing and Sharing Knowledge in Distributed Cognition: A Cognitive Science Perspective, presented to ONR sponsors, at Pennsylvania State University. (August 2003).