

## Conference Papers

- Meyers, C.; Fowler, S.; & Smith, J. [\*Model-Based Diagnostic Approach to Acquisition in a System-of-Systems Context\*](#), AIAA-2009-1008. Proceedings of the 47th Annual AIAA Aerospace Sciences Meeting, Orlando, FL, 5-8 January, 2009. AIAA, 2009.
- Smith, J.; & Meyers, C. [\*The Programmatics of Acquisition in Systems of Systems\*](#), 469-474. Proceedings of the 2<sup>nd</sup> Annual IEEE International Systems Conference, April 7-10, 2008. Montreal, Quebec, Canada.
- Bellomo, S.; & Smith, J. [\*Attributes of Effective Configuration Management For Systems of Systems\*](#), 177-184. Proceedings of the 2<sup>nd</sup> Annual IEEE International Systems Conference, April 7-10, 2008. Montreal, Quebec, Canada.
- Smith, J.; Meyers, C.; & Fisher, D. [\*Systems of Systems Programmatics: Guidelines for Program Managers\*](#), AIAA-2007-2867. Proceedings of the American Institute of Aeronautics and Astronautics (AIAA) Infotech@Aerospace Conference and Exhibit, Rohnert Park, CA, USA, 7-10 May, 2007. AIAA, 2007.
- Smith, J.; Meyers, B. [\*Interoperability Patterns and Systems of Systems Acquisition\*](#), AIAA-2007-592. Proceedings of the 45<sup>th</sup> AIAA Aerospace Sciences Meeting and Exhibit, Reno, NV, USA, 8-11 January, 2007. AIAA, 2007.
- Brownsword, L.; & Smith, J. [\*Using Earned Value Management for COTS-Based Systems: Issues and Recommendations\*](#) (Best Paper), 13-24. Proceedings of the Fourth International Conference on COTS-Based Software Systems. Bilbao, Spain, Feb. 7-11, 2005. Heidelberg: Springer-Verlag, 2005.
- Smith, J. [\*An Alternative to Technology Readiness Levels for Non-Developmental Item \(NDI\) Software\*](#), 315. Proceedings of the Thirty-Eighth Annual Hawaii International Conference on System Sciences. Big Island, Hawaii, USA, Jan. 3-6, 2005. Los Alamitos, CA: IEEE Computer Society, 2005.
- Smith, J. [\*ImpACT: An Alternative to Technology Readiness Levels for Commercial-Off-The-Shelf \(COTS\) Software\*](#), 127-136. Proceedings of the Third International Conference on COTS-Based Software Systems. Redondo Beach, CA, USA, Feb. 1-4, 2004. Heidelberg: Springer-Verlag, 2004.
- Smith, J. & Hybertson, D. [\*Implementing Large-Scale COTS Reengineering Within the United States Department of Defense\*](#), 245-255. Proceedings of the First International Conference on COTS-Based Software Systems. Orlando, FL, USA, Feb. 4-6, 2002. Heidelberg: Springer-Verlag, 2002.
- Smith, J.; & Walker, R. [\*WSC-3\(V\)XX - UHF for the 21<sup>st</sup> Century\*](#). Proceedings of the AIAA Space Programs and Technologies Conference. Huntsville, AL, USA: September 26-28, 1995.
- Smith, J.; & Pappageorge, N. [\*Milstar System Use Concept\*](#). Proceedings of the 15<sup>th</sup> AIAA International Communication Satellites System Conference. San Diego, CA, USA: February 27 - March 3, 1994.
- Smith, J. *A VHSIC Systolic Array Processor*. 13<sup>th</sup> Government Microcircuit Applications Conference (GOMAC 87) Digest of Papers. Orlando, FL, USA: October 1987

## Technical Reports

- Alberts, C.; Smith, J.; & Woody, C. [Multi-View Decision Making \(MVDM\) Workshop](#) (CMU/SEI-2008-SR-035). Pittsburgh, PA: Software Engineering Institute, Carnegie Mellon University, February, 2009.
- Meyers, B.; & Smith, J. [Programmatic Interoperability](#) (CMU/SEI-2008-TN-012). Pittsburgh, PA: Software Engineering Institute, Carnegie Mellon University, December, 2007.
- Alberts, C., et al. [Results of SEI Independent Research and Development Projects](#) (CMU/SEI-2007-TR-006). Pittsburgh, PA: Software Engineering Institute, Carnegie Mellon University, July, 2007.
- Smith, J. [Topics in Interoperability: Structural Programmatic in a System of Systems](#) (CMU/SEI-2006-TN-037). Pittsburgh, Pa: Software Engineering Institute, Carnegie Mellon University, October, 2006.
- Smith, J.; & Phillips, D. [Interoperable Acquisition for Systems of Systems: The Challenges](#) (CMU/SEI-2006-TN-034). Pittsburgh, Pa: Software Engineering Institute, Carnegie Mellon University, September, 2006.
- Brownsword, L.; Fisher, D.; Morris, E.; Smith, J.; & Kirwan, P. [System-of-Systems Navigator: An Approach for Managing System-of-Systems Interoperability](#) (CMU/SEI-2006-TN-019). Pittsburgh, Pa: Software Engineering Institute, Carnegie Mellon University, April 2006.
- Meyers, B.; Smith, J.; Capell, P.; & Place, P. [Requirements Management in a System-of-Systems Context: A Workshop](#) (CMU/SEI-2006-TN-015). Pittsburgh, Pa: Software Engineering Institute, Carnegie Mellon University, March 2006.
- Carney, D.; Smith, J.; & Place, P. [Topics in Interoperability: Infrastructure Replacement in a System of Systems](#) (CMU/SEI-2005-TN-031). Pittsburgh, Pa: Software Engineering Institute, Carnegie Mellon University, November 2005.
- Smith, J.; & Meyers, B. [Exploring Programmatic Interoperability: Army Future Force Workshop](#) (CMU/SEI-2005-TN-042). Pittsburgh, Pa.: Software Engineering Institute, Carnegie Mellon University, September 2005.
- Brownsword, L.; & Smith, J. [Using Earned Value Management \(EVM\) in Spiral Development](#) (CMU/SEI-2005-TN-016). Pittsburgh, Pa.: Software Engineering Institute, Carnegie Mellon University, June 2005.
- Meyers, B.; Monarch, I.; Levine, L.; & Smith, J. [Including Interoperability in the Acquisition Process](#) (CMU/SEI-2005-TR-004). Pittsburgh, Pa.: Software Engineering Institute, Carnegie Mellon University, March 2005.
- Smith, J. [An Alternative to Technology Readiness Levels for Non-Developmental Item \(NDI\) Software](#) (CMU/SEI-2004-TR-013). Pittsburgh, Pa.: Software Engineering Institute, Carnegie Mellon University, April 2004.
- Brownsword, L.; Carney, D.; Fisher, D.; Lewis, G.; Meyers, C.; Morris, E.; Place, P.; Smith, J.; & Wrage, L. [Current Perspectives on Interoperability](#) (CMU/SEI-2004-TR-009). Pittsburgh, PA: Software Engineering Institute, Carnegie Mellon University, March 2004.
- Smith, J. [What About Ada? The State of the Technology in 2003](#) (CMU/SEI-2003-TN-021). Pittsburgh, PA: Software Engineering Institute, Carnegie Mellon University, August 2003.

- Motsko, M; Oberndorf, P; Pairo, E.; & Smith, J. [\*Rules of Thumb for the Use of COTS Products\*](#) (CMU/SEI-2002-TR-032). Pittsburgh, PA: Software Engineering Institute, Carnegie Mellon University, December 2002.

## Presentations

- Smith, J. [\*Systems of Systems and Software Radios: Impacts on Acquisition\*](#). Proceedings of the 9th Annual International Software Radio Conference (ISR 2009). London, UK, 8-9 June 2009.
- Smith, J. [\*The Use of Influence Maps to Understand System-of-Systems Programmatic\*](#). Proceedings of the 21st Annual Systems & Software Technology Conference (SSTC 2009). Salt Lake City, UT, USA, 20-23 April 2009.
- Smith, D.; & Smith, J. [\*Ten Changes to Acquisition and Engineering Practice Required to Successfully Acquire Systems of Systems\*](#). Proceedings of the 21st Annual Systems & Software Technology Conference (SSTC 2009). Salt Lake City, UT, USA, 20-23 April 2009.
- Smith, J. [\*Towards a Reasoning Framework for System-of-Systems Programmatic\*](#). [\*21st Annual SEPG North America \(SEPG 2009\)\*](#). San Jose, CA, 23-26 March 2009.
- Smith, J. [\*Keynote Address: Network-Centric Acquisition for SDRs\*](#). 7th Annual Software Radio Summit, Vienna, VA, 23-26 February, 2009.
- Smith, J. [\*Interoperable Acquisition Overview\*](#). U.S. Census Bureau Software Process Improvement Conference, 11 September 2008.
- Smith, J. [\*Interoperable Acquisition\*](#). [\*PEO EIS Information Assurance and System Engineering Conference\*](#). National Harbor, MD, USA, April 16-18, 2008.
- Smith, J. [\*Network Centric Acquisition Panel: Different Perspectives On Acquisition For Network Centric Warfare\*](#). [\*Network Centric Warfare 2008\*](#). Washington, DC, USA, 22-25 January, 2008.
- Smith, J. [\*Delta Forum Keynote Address: Governance for Systems of Systems – Lessons for Global Development?\*](#) [\*46<sup>th</sup> AIAA Aerospace Sciences Meeting and Exhibit\*](#). Reno, NV, USA, 7-10 January, 2008.
- Smith, J. [\*Keynote Address: Systems of Systems and Service Oriented Architecture: Opportunities and Challenges\*](#). [\*Sixth Earth Science Data Systems Working Group \(ESDSWG 2007\)\*](#). Philadelphia, PA, USA, 23-25 October, 2007.
- Smith, J. [\*Interoperable Acquisition for Homeland Security\*](#). [\*2007 Monterey Homeland Security Conference\*](#). Monterey, CA, USA, 21-24 August, 2007.
- Smith, J.; Meyers, C.; & Fisher, D. [\*Systems-of-Systems Programmatic: Guidelines for Program Managers\*](#). Proceedings of the Nineteenth Annual Systems & Software Technology Conference (SSTC 2007). Tampa, FL, USA, 18-21 June, 2007.
- Smith, J. [\*Interoperable Acquisition in a Network-Centric World\*](#). Defense Network Centric Operations Conference (DNCO 2007). Alexandria, VA, USA, 11-14 June, 2007.
- Smith, J. [\*Achieving Network Centric Warfare in the Near Term: Top Net-Centric Acquisition Issues\*](#). Defense Network Centric Operations Conference (DNCO 2007). Alexandria, VA, USA, 11-14 June, 2007.
- Smith, J. [\*Organizational Architecture and Systems of Systems Programmatic\*](#). [\*19th Annual Software and Systems Process Conference \(SEPG 2007\)\*](#). Austin, TX, USA, 23-26 March 2007.

- Smith, J. *Acquisition of Systems of Systems in a Netcentric World*. Meeting New Challenges in Acquisition Workshop, held in conjunction with S<sup>3</sup>e 2007. Huntsville, AL, USA, 12-15 March, 2007.
- Smith, J. *Organizational Architecture Considerations for Netcentric Systems of Systems*. Southeastern Software & Systems Engineering Conference (S<sup>3</sup>e 2007). Huntsville, AL, USA, 12-15 March, 2007.
- Smith, J. *Challenges in System of Systems Interoperability*. Supporting Performance Improvement Realisation within Engineering Conference (SPIRE 2006). Hinckley, UK, 23-26 October 2006.
- Smith, J.; & Meyers, C. *Patterns in System-of-Systems Interoperability*. Proceedings of the Eighteenth Annual Systems & Software Technology Conference (SSTC 2006). Salt Lake City, UT: April 2006
- Smith, J. *Technology Readiness Assessments for Non-Developmental Item (NDI) Software-Intensive Systems*. Proceedings of the May 19, 2004 Technology Readiness Assessment Workshop. Fort Belvoir, VA: July 2004.
- Smith, J. [\*Technology Readiness Assessments for Software-Intensive Systems\*](#). Proceedings of the Sixteenth Annual Systems & Software Technology Conference (SSTC 2004). Salt Lake City, UT: April 2004.
- Mularz, D.; Smith, J.; & Hybertson, D. *Poster Session: Integrated Architectures and Acquisition Strategies for COTS-Intensive Systems*. Proceedings of the Sixteenth Annual Systems & Software Technology Conference (SSTC 2004). Salt Lake City, UT: April 2004.
- Smith, J. *An Alternative to TRLs for COTS Software-Intensive Systems*. Third Annual Conference on the Acquisition of Software-Intensive Systems (ASIS 2004). Arlington, VA: January 2004.
- Marz, T.; & Smith, J. *The State Of Practice In DoD Acquisitions, And Some Proposed Alternatives*. Second Annual Conference on the Acquisition of Software-Intensive Systems (ASIS 2003). Arlington, VA: January 2003.
- Mularz, D.; Hybertson, D.; & Smith, J. *Enterprise Architecture and COTS-Intensive System Acquisition Strategies*. Second Annual Conference on the Acquisition of Software-Intensive Systems (ASIS 2003). Arlington, VA: January 2003.
- Oberndorf, P.; Smith, J.; Motsko, E.; & Pairo, E. [\*To COTS or Not To COTS - That is the Question\*](#). Proceedings of the Fourteenth Annual Software Technology Conference (STC 2002). Salt Lake City, UT: May 2002.
- Smith, J. *Application of Milstar to Joint Service Operations*. 14<sup>th</sup> Annual IEEE Military Communications Conference (MILCOM 94). Fort Monmouth, NJ: October 1994.

## Tutorials

- Smith, J. *Interoperability in Systems of Systems—an Acquisition Perspective*. Defense Acquisition 2009. McLean, VA, 14-16 September, 2009.
- Smith, J. *Acquisition for Network Centric Operations*. Network Centric Warfare 2009. Washington, DC, 27-30 January, 2009.
- Smith, J. *Interoperable Acquisition for Force Tracking*. Force Tracking 2007. Washington, DC, USA, 26-29 June, 2007.

- Brownsword, L.; & Smith, J. *Promises, Expectations, and Realities of Interoperability: from COTS to Systems of Systems*. [Sixth IEEE International Conference on COTS-Based Software Systems \(ICCBSS 2007\)](#). Banff, Alberta, Canada, 26 February - 2 March, 2007.
- Smith, J.; Brownsword, L.; & Meyers, C. *Interoperable Acquisition for a Net-Centric World*. [Network Centric Warfare 2007 Conference](#). Washington, DC, USA, 22-25 January, 2007
- Smith, J. *Challenges in Building a Net-Centric System-of- Systems*. [National Defense Industry Alliance \(NDIA\) Net-Centric Operations Conference](#). Norfolk, VA, USA, 13-16 March, 2006.