



SPACE & MISSILE DEFENSE  
SYMPOSIUM

August 6-8, 2019

SMD – Space & Missile Defense Symposium

**CALL FOR PAPERS**

## **2019 Space & Missile Defense Symposium Technology Track**

**August 6-8, 2019 – Huntsville, AL**

**Please Consider Submitting an Abstract**

**Abstracts are due May 24, 2019 and final briefings are due July 12, 2019**

### **Artificial Intelligence & Machine Learning**

The rapid emergence of Artificial Intelligence (AI) and Machine Learning (ML) based methodologies offers a tremendous opportunity for the United States to maintain and extend our competitive edge in military, space and commercial applications. Surveillance and reconnaissance, guidance and control, maintenance and health monitoring, cybersecurity, biomedical, among many other fields, may benefit greatly from and be transformed significantly by AI/ML in the near future. Therefore, advancing the nation's capabilities in AI/ML and ensuring that solutions are accurate, robust, deployable, and secure in military, space, and commercial domains is critical and depends on innovations in many key areas. Abstracts addressing Data Collection and Generation; Algorithms and Architectures; Testing and Evaluation; Infrastructure; and System Integration, which discuss specific methods, technologies, and processes that facilitate development of novel AI/ML solutions or improve existing systems are encouraged. Case studies involving validation and verification in simulated, benchtop, or real-world environments and methods to review new technologies are also desired.

### **SMD Technologies**

Each year, potential authors submit abstracts outside the posted Call for Paper topics based on their current research and development or particular personal interest. Unfortunately, time limitations usually prevent these abstracts from consideration and presentation. For 2019, in addition to the specific AI/ML topic, the Technology Committee encourages abstracts relevant to Space and Missile Defense Technologies that leverage the creativity of our community and provide insight into their interests.

### **Criteria & Submission**

Selection for this Symposium is based on an Abstract of no more than 2 pages describing the proposed technical briefing. The Abstract must describe the basis of the work and include sufficient detail to allow evaluation of the work. No exceptions will be made. For those topics selected for presentation, a 20-minute PowerPoint briefing will be prepared and presented as part of the Symposium Technology Track. All Abstracts and PowerPoint briefings must be at the Unclassified level. Authors will be notified of their selection status.

Prospective authors are asked to submit their work or questions electronically to [smdtech@smdsymposium.org](mailto:smdtech@smdsymposium.org) prior to the posted deadlines.

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