Introduction

The Improvised Explosive Device (IED) is the embodiment of a strategic policy of area denial that provides asymmetric groups with an unprecedented force multiplier, and implied legitimacy, at minimal capital cost. While models have been built of the respective sensors and platforms that compose candidate IED detection and mitigation solutions, it is only now that the modeling and simulation community is stepping up to apply their intellectual resources to this issue in its totality. This special issue is therefore interested in novel / emerging modeling and simulation techniques that address the design, development and production of effective counters to IEDs from strategic resourcing to tactical employment. Potential contributions can include but are not limited to –

- Modeling and simulation applications for standoff detection of IEDs
- Use of modeling and simulation to improve the understanding, prediction and evaluation of target detection and recognition
- Multi-modal data fusion and decision support systems applicable to standoff detection of military targets
- Red force logistical challenges for deploying IEDs and subsequent intelligence collectibles
- Counter IED scenario evaluations
- Modeling and simulation of technology insertions to perform force protection evaluations
- Techniques to forecast readiness levels and associated Counter-IED intervention techniques
- Strategic, operational, and tactical analytics that support missile defense planning across all spectrums of conflict
- Integration of Counter-IED systems into legacy air - land - sea - space collection / force systems
- Standard "-ilities" via risk, schedule, cost & performance
- Materiel / Non-Materiel Effectiveness Evaluation Techniques as applied to C-IED systems
- Course of Action Development / Analysis and Architecture / System mix
- Effects of training on Counter-IED tactical outcomes

Papers submitted should not be concurrently under review at another conference, journal, or similar venue.

**Instructions for Manuscript Preparation**

For manuscript formatting and other guidelines, please visit the [Author Guidelines for JDMS](#).

Note: Manuscripts must not have been previously published or be submitted for publication elsewhere. Each submitted manuscript must include title, names, authors' affiliations, postal and e-mail addresses, and a list of keywords. For multiple author submission, please identify the corresponding author.

**Due Dates**

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Submissions for full paper review

All manuscripts must be submitted electronically through the paper submission system to the JDMS Manuscript Submission System. In the title page, author(s) must specifically mark that the paper is intended for this special issue as follows: "Submission for the Special Issue of JDMS: Modeling & Simulation in Counter Improvised Explosive Device (IED) Systems. Please follow the guidelines for submission on the Manuscript Central site.

Final paper submissions

Each final submission must be prepared based on the JDMS journal requirements (see the Author Guidelines for JDMS page).

For questions contact the editor at:

Dr. Canicious Abeynayake
Defense Science and Technology Organization (DSTO)
Australia
(Canicious.Abeynayake@dsto.defence.gov.au)