Workshop on Emerging Digital Technologies for Nonproliferation and Nuclear Security

APRIL 22-24, 2020 • LAWRENCE LIVERMORE NATIONAL LABORATORY, LIVERMORE, CA, USA

Call for Abstracts

To address challenges and opportunities from emerging digital technologies for the nuclear materials management community, the Institute of Nuclear Materials Management's California, Southwest, and Pacific Northwest chapters are hosting a joint workshop on Emerging Digital Technologies for Nonproliferation and Nuclear Security and are soliciting abstract proposals in the following areas:

- Development of emerging digital technologies and approaches specific to nuclear security and nonproliferation
- Novel applications of existing digital technologies and approaches to the nuclear security and nonproliferation domains
- Studies on impacts, risks, consequences and implications related to the implementation of emerging digital technologies and approaches to nuclear security and nonproliferation

Examples of digital technologies and approaches for this domain might include:

- Physical technologies and infrastructure, such as next generation sensors, autonomous and unmanned systems, "wearables," virtual and augmented reality
- Analytical methodologies and platforms, such as artificial intelligence, machine learning, cloud computing, video and data analytics, multiparty computing and simulation
- Information security and assurance, such as encryption, blockchain and quantum security
- New and big data, such as patterns of life, social media, multimedia, informational sensing

Submission Information:

Abstracts may be submitted via email: *EDT-INMM@llnl.gov*

Abstract submissions should be no more than 500 words, and include title, author, affiliation, and corresponding author contact information. The technical program committee reserves the right to request either an oral presentation or poster presentation, which will be communicated to authors with the abstract acceptance notice (we will attempt to accommodate specific requests). Selected authors will be invited to submit a full paper (4-8 pages) to the workshop proceedings.

Who should submit:

We cordially invite submissions from national government and international agencies, research laboratories, non-profit and non-governmental organizations, academia, information technology industry, nuclear industry and other stakeholders of the nuclear materials management community. We welcome submissions from all levels of expertise, from students and early career professionals to senior experts.

Important dates

Abstracts due to *EDT-INMM@llnl.gov* by February 1, 2020

Acceptance Notice–February 21, 2020

For more information

See: *www.inmm.org/events*

For general workshop questions

Contact: *EDT-INMM@llnl.gov*

For technical program questions

Contact: *zgastel@sandia.gov*

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