



NATIONAL TRAINING AND SIMULATION ASSOCIATION  
THE VOICE OF THE TRAINING & SIMULATION COMMUNITY



## INTERSERVICE/INDUSTRY TRAINING, SIMULATION & EDUCATION CONFERENCE

**ASSURING DETERRENCE THROUGH INTEGRATED  
TRAINING AND READINESS – THE NEED IS NOW!**

2 DECEMBER – 6 DECEMBER 2024



# I/ITSEC 2024 PREVIEW

2 DECEMBER – 6 DECEMBER 2024 | ORLANDO, FLORIDA  
[WWW.IITSEC.ORG](http://WWW.IITSEC.ORG)

**NDIA**

# 2024 CALL FOR PRESENTATIONS

## ASSURING DETERRENCE THROUGH INTEGRATED TRAINING AND READINESS – THE NEED IS NOW!

**2 DECEMBER – 6 DECEMBER 2024**

Orange County Convention Center  
Orlando, Florida USA

### ORGANIZED BY

National Training and Simulation Association  
an affiliate of  
National Defense Industrial Association

### THE CALL

The innovations and technologies presented annually at I/ITSEC have great potential to support our nation's warfighters and the service men and women of our international partners. In addition to the vast show floor, which highlights the best of our industry's leading-edge technical developments, I/ITSEC provides an opportunity for the global modeling and simulation community to come together and collaborate. The conference offers many venues for attendees to engage in technical paper presentations, special events, tutorials, and professional development workshops. Through these avenues, members from government, industry, and academia can discuss our most pressing challenges and how to go about solving them.

In today's world of increased military aggression and cyber security threats, the need for innovative I/ITSEC concepts and policy papers has never been greater. Our nation and international partners continue to be challenged with budget constraints, longer supply lines, and evolving rules of engagement. These great distances and complex battlefield conditions will require efficient and mobile multi-domain solutions at the warfighter's point of need. This year's theme "Assuring Deterrence Through Integrated Training and Readiness - The Need is Now" developed by our United States Sea Service principles (USN and USMC), concisely challenges our community to integrate new ideas and technologies to achieve this readiness. By leveraging more immersive training environments, AI-enhanced decision-making, and digital engineering our military services and industry are well-positioned to deter this aggression.

*"The greatest victory is that which requires no battle."*  
— Sun Tzu, The Art of War

We therefore call on those from modeling & simulation, training, education, and acquisition communities to contribute to the I/ITSEC 2024 program by submitting an abstract to one of the program elements listed below. Your contributions are a vital element of this conference—we look forward to hearing your best ideas and thank you for your contributions.



**JAMES THRELFALL**  
2024 Conference Chair



**FREDERICK FLEURY**  
2024 Program Chair

### IMPORTANT DATES

Instructions for each step will be posted at least two weeks before the process opens.

<b>14 JANUARY – 3 MARCH</b>	Abstract, Tutorial, Workshop Portal Open
<b>8 APRIL</b>	Authors Notified of Abstract/Tutorial Review Results
<b>15 APRIL – 7 JULY</b>	Paper Submissions
<b>15 APRIL – 7 JULY</b>	Tutorial/Workshop Draft Submissions
<b>17 JULY</b>	Clearance Forms Due
<b>NLT 9 AUGUST</b>	Authors Notified of Submission Review Results
<b>16 AUGUST</b>	Submission Updates in Portal for Print Program
<b>12 AUGUST – 6 OCTOBER</b>	All Final Presentation Submissions
<b>2 – 6 DECEMBER</b>	I/ITSEC 2024



## THE CONFERENCE

The Interservice/Industry Training, Simulation and Education Conference (I/ITSEC) is the world's largest modeling, simulation and training event. Held near the beginning of December in Orlando, Florida, USA, I/ITSEC consists of peer-reviewed paper presentations, tutorials, special events, professional development workshops, a commercial exhibit hall, a serious games competition, and STEM events for teachers and secondary students. I/ITSEC is organized by the National Training and Simulation Association (NTSA), which promotes international and interdisciplinary cooperation within the fields of modeling and simulation (M&S), training, education, analysis, and related disciplines at this annual meeting. The NTSA is an affiliate subsidiary of the National Defense Industrial Association (NDIA). Hence, I/ITSEC also emphasizes themes related to defense and security. I/ITSEC is an annual forum for representatives from the military, industry and academia to connect and share knowledge. The conference draws 17,500 attendees from industry, government and academia, and features over 450 exhibits.

The United States Sea Services (USN and USMC) will serve as the lead service for I/ITSEC 2024 in partnership with all military services.

## PAPERS

The I/ITSEC 2024 Conference Committee invites you to submit previously unpublished work and especially encourages original papers that align with the theme and concepts described in The Call. Prospective authors are encouraged to read through the subcommittee descriptions (see next page) and submit abstracts for papers that discuss the core research our industry will use to prepare the global force for the digital world. All paper presentations will be offered for Continuing Education Units (CEUs).

### PAPER PROCESS

The complete three-stage process for submitting papers is detailed in the I/ITSEC Author's Handbook (available for download from the Authors section of the I/ITSEC website). The initial stage in the process is the submission of an abstract.

**ABSTRACTS (Stage P1).** As a prospective author, your chances of having an abstract accepted are significantly greater if you send your abstract to the appropriate subcommittee, so please read the descriptions carefully. It is also vital that you submit your abstract on time. Please refer to [www.iitsec.org](http://www.iitsec.org) for additional details.

**PAPERS (Stage P2).** If your abstract is selected for expansion into a paper, you will be assigned a bird dog who will be your liaison to the subcommittee and the champion for your paper. Your chances of having your paper accepted are significantly greater if you work closely with your bird dog. Papers are accepted for both publication in the conference proceedings and presentation at the conference. The selection process includes a Best Paper nominee from each subcommittee that will be considered for the overall conference Best Paper. Detailed instructions for completing and submitting your paper will be available on the I/ITSEC website.

**PRESENTATIONS (Stage P3).** If your paper is accepted, then you will be required to submit a presentation for review prior to the conference. Presentations should be designed for a 20-minute time-slot, plus five minutes for questions and answers. Detailed requirements for the presentations will be available on the I/ITSEC website.

## TUTORIALS

**2024 CHAIR: MICHAEL J. O'CONNOR • [moconnor@trideum.com](mailto:moconnor@trideum.com)**  
I/ITSEC presents a comprehensive tutorials program covering a diverse set of topics essential to the simulation, training, and education communities. Each tutorial is focused on building skills and provides an opportunity to earn CEUs. Tutorials are 90 minutes in length.

The tutorial program provides learning opportunities in two focus areas:

- 1) FOUNDATIONAL** topics related to skills and knowledge required by practitioners in the I/ITSEC community. This includes topics to prepare for or maintain certification as a Certified Modeling and Simulation Professional (CMSP).
- 2) EMERGING and INOVATIVE** concepts of particular interest to I/ITSEC attendees that provide skills in new and evolving technologies.

### TUTORIALS PROCESS

The complete three-stage process for submitting tutorials is detailed in the I/ITSEC Author's Handbook, available for download from the Author Information page of the I/ITSEC website (under "Get Involved").

**PROPOSAL (Stage T1).** As a prospective tutorial presenter, you must submit a complete tutorial proposal including an abstract, detailed outline, intended audience, any prerequisites, and targeted learning objectives. Learning objectives are critical to the Tutorial Board's selection process. The Board also assesses the degree to which proposal topics will contribute to a comprehensive tutorial curriculum encompassing the two focus areas described above.

**PRESENTATIONS (Stage T2).** If your abstract is selected for expansion into a complete tutorial presentation, then you will be assigned an I/ITSEC bird dog who will be your liaison to the Tutorial Board and the champion for your presentation. You must submit a complete set of presentation slides to the Tutorial Board for review.

**FINAL PRESENTATIONS (Stage T3).** If your presentation is selected, then you will receive feedback from the Tutorial Board and then have the opportunity to submit a revised and final version of your tutorial presentation.

## PROFESSIONAL DEVELOPMENT WORKSHOPS

**2024 CHAIR: BRIAN VOGT • [bvogt@appliedtrg.com](mailto:bvogt@appliedtrg.com)**

This conference seeks workshop proposals that offer in-depth and interactive engagement with innovative concepts, technologies and use cases exploring effective training and readiness. Workshops are half-day events. Topics should be of general interest to the I/ITSEC audience across the broad categories of training, education, human performance, and simulation, and should propose an in-depth treatment of a topic of current relevance or that is an emerging capability. Submissions from individuals and organizations outside of the traditional boundaries of the defense industry are welcomed. Proposals should describe the general topic for the workshop and a high-level outline of how the workshop would be conducted. Workshops with a thematic connection to a Tutorial are also encouraged as paired events.

We are pleased to continue to offer the "one per paper" and "two per tutorial or Professional Development Workshop" complimentary registrations at I/ITSEC. After Stage P2 and T2, authors will be notified and provided instructions for taking advantage of this benefit. This is a full registration to include access to all Tutorials, Papers, Special Events, Professional Development Workshops, Exhibit Floor access during open hours, Meals, and Meeting Materials.

## THE SUBCOMMITTEES

### EDUCATION

#### 2024 CHAIR: **STU ARMSTRONG**

The Education Subcommittee seeks papers that present strategies, methods, technologies, and best practices that advance the science of learning across all phases of the learning lifecycle. Of particular interest are papers that present empirical data that document the effectiveness of military, corporate, and STEM (science, technology, engineering, math) learning initiatives. The Education Subcommittee also welcomes theoretical papers, case studies, and qualitative research efforts that can help to illuminate or explain the often-contradictory findings from empirical studies. Emerging areas of interest include: the application of learning analytics and extended reality (XR) sets to improve learning at the individual to the enterprise level, learning in hybrid human-machine systems, lifelong learning initiatives, informal learning efforts that occur outside of organizationally-sponsored courses, the integration of training and education initiatives and organizations, team and organizational learning, and applications of artificial intelligence (or machine learning) techniques to improve learning effectiveness.

### EMERGING CONCEPTS & INNOVATIVE TECHNOLOGIES

#### 2024 CHAIR: **EVAN OSTER**

This subcommittee seeks papers that discuss emerging and innovative technologies, methodologies, or concepts in modeling and simulation. Papers should clearly explain how the topic advances the state of the art and has relevance in defense, transportation, homeland security, medical, law enforcement, cyber security, energy, or other industries. Of particular interest are research and development papers from DoD emerging concept programs like SBIR, NavalX, TReX, and AFWERX. New developments in trusted artificial intelligence (AI), Human Machine Interfaces, Advanced Computing & Software, and Integrated Sensing & Cyber are also of interest. Candidate papers should thoroughly describe the challenges encountered and associated creative solutions implemented to overcome them. Submissions that simply describe applications or instantiations of known fielded technologies are discouraged. Rather, this track emphasizes unique and emerging concepts that enhance the mission effectiveness of the workforce, supporting platforms, systems, components, or materials proposed to be acquired or upgraded. With a focus on leveraging new concepts and technologies each year, this subcommittee offers an opportunity for attendees to find inspiration, gain insight, and support innovation in their own domain.

### HUMAN PERFORMANCE ANALYSIS & ENGINEERING

#### 2024 CHAIR: **SAMANTHA DUBROW**

This subcommittee seeks papers that focus on the human dimension — systematically addressing individuals and teams as an integral component within workplace systems. Papers should address the application of human performance analysis & engineering (HPAE) technologies, human performance measurement and effectiveness models, methods and tools, human-computer interaction (HCI), usability/user experience (UX), decision/performance support systems, and the impact of HPAE on organizational outcomes. Specifically, the subcommittee seeks papers that describe how particular interventions — including human interfaces to extended realities (XR), human-machine teaming and others — leverage and extend the capabilities of an individual and/or a team, and improve learning transfer and operations. Papers supported by human performance data gathered from scientifically valid experiments are especially valued.

### POLICY, STANDARDS, MANAGEMENT & ACQUISITION

#### 2024 CHAIR: **DAVID ROBERTS**

This subcommittee is seeking papers related to policy and standards issues associated with the acquisition, implementation, and maintenance of education, training, and simulation capabilities. This includes policy-related topics regarding training systems development and associated content, delivery, and sustainment. Papers are sought that provide insight into innovative approaches

for managing requirements for acquiring, implementing, and sustaining these capabilities. Papers should provide qualitative and/or quantitative analysis of data to help substantiate outcomes; and where possible, characterize innovative processes or techniques to improve return on investment. Papers may address emerging policy, standards, or the need for policy or standards with respect to education, training, simulation, data analytics and cybersecurity. Topics of particular interest for the current year include emerging concepts in policy and standards, including Other Transaction Authority (OTA) implications to the training and simulation communities, sustainability, and outcome-focused approaches to training and simulation acquisition, development, execution and evaluation. Cyber policies dealing with the introduction of new technologies such as AI, XR and digital engineering are a valued contribution. The PSMA subcommittee also has a continuing interest in papers that address innovative intellectual property solutions that support maintenance and competition across the education, training and simulation industry.

### SIMULATION

#### 2024 CHAIR: **RAY COMPTON**

This subcommittee seeks innovative papers on the applied science of modeling and simulation, simulation architectures or techniques, as well as the exploration of synthetic entities or environments and how they apply to training, mission rehearsal, analysis, experimentation or research. Papers should present and explain concepts, theories and or applications that bring innovation to the modeling and simulation enterprise. Discussions should detail the technical challenges, past lessons, and unique and creative developments associated with developing, interacting with, and maintaining simulation systems. Topics of interest include evolving modeling and simulation technology, expanding interoperable simulation architectures, realistic human behavioral modeling, medical simulation, replication of cyber effects, and innovation in representing physical entities and behavioral actions within live, virtual, constructive, mixed reality and gaming environments.

### TRAINING

#### 2024 CHAIR: **KOREN ODERMANN**

This subcommittee seeks papers that discuss the application of innovative concepts, methods and technologies to create effective training solutions. Papers should present a clear problem description, state-of-the-art from current literature, analysis of current needs and training gaps, and practical application. Example topics include adaptive training, training system integration and interoperability, training applications of artificial intelligence or machine learning, individual and collective team training, learning science or learning engineering, innovative training strategies, and competency-based training and assessment. Descriptions of implemented solutions' effectiveness supported by quantitative and/or qualitative data are encouraged. Emerging technologies of interest include extended reality (XR) and virtual training environments, semi-automated training and assessment generation, mobile training, and training techniques to deal with rapidly changing or austere conditions. The subcommittee is interested in all phases of training system development including planning, analysis, design, development, deployment, evaluation, and lifecycle maintenance.

## POINTS OF CONTACT

### I/ITSEC 2024 PROGRAM CHAIR

Fred Fleury | ZedaSoft, Inc.

817-320-4351 | [fred.fleury@zedasoft.com](mailto:fred.fleury@zedasoft.com)

### GENERAL CONFERENCE INFORMATION

National Training and Simulation Association

703-247-9480 | E-mail: [dlangelier@NTSA.org](mailto:dlangelier@NTSA.org)

### EXHIBITOR INFORMATION

703-247-9473 | E-mail: [sburch@NTSA.org](mailto:sburch@NTSA.org)

# 34th Annual

## I/ITSEC POSTGRADUATE SCHOLARSHIPS



### NATURE OF SCHOLARSHIP

The Interservice/Industry Training, Simulation and Education Conference (I/ITSEC) is pleased to announce the National Training & Simulation Association (NTSA) Thirty-Fourth Annual RADM Fred Lewis Postgraduate Scholarships, Eighth Annual Leonard P. Gollobin, and Second Annual Certified Modeling and Simulation Professional (CMSP) Postgraduate Scholarships. These awards are offered at a Masters level in the amount \$5,000 and at a Doctoral level in the amount of \$10,000. If suitable candidates for one level are not identified, funds may be combined to provide two awards at the same level of study. The scholarship recipient(s) will attend I/ITSEC 2024 (2–6 December 2024) at the expense of NTSA, where they will be recognized; view the latest in simulation, training, and education technologies; and meet leading figures from government, industry, and academia associated with this community.

### ELIGIBILITY

The applicant must be a U.S. citizen and successfully complete undergraduate studies by the end of Spring Term 2025. The applicant also must be enrolled or accepted for a full-time masters or doctoral program at a U.S. Institution with a focus in any of the following areas:

- Engineering (Modeling, Simulation and/or Training Related; Systems Engineering)
- Operations Research/Systems Analysis/Mathematics
- Distance Learning Methodologies
- Human Factors (Psychology or Engineering)
- Instructional Design and Training Methodology
- Computer Science and/or Information Sciences

### SELECTION CRITERIA

- The applicant must have a stated interest and career goal in the Modeling & Simulation, Training and/or Education Industry.
- The award will be based on student merit as determined from the submitted application documents (see “How to Apply”).

### CONDITION OF AWARD

- The scholarship must be used for education expenses (tuition, books, fees, room and board) and is subject to the established procedures/policies of the applicant's institution.
- Applicant must be enrolled full-time at the time of being awarded the scholarship.
- Applicant must be available to attend I/ITSEC.
- If the successful applicant terminates their graduate studies and there are remaining funds, the institution will retain such funds for award to another student of their choice following the above eligibility guidelines.
- The successful applicant will prepare an abstract and, if approved, a paper to be presented at I/ITSEC in the respective area of study one year after completion of the degree program or within three years of scholarship receipt, whichever occurs first.
- Those awarded the CMSP Scholarship must complete the CMSP exam within six (6) years.
- Graduate students who are fully funded with other scholarships or grants are not eligible to receive NTSA funds.
- Graduate students who are partially funded are eligible to receive NTSA funds on a case by case basis.

### SELECTION PANEL/SCHOLARSHIP ADMINISTRATION

A panel consisting of individuals from academia and I/ITSEC chairs will determine the selection. Administration of the scholarship program will reside with the National Training and Simulation Association (NTSA), an affiliate of the National Defense Industrial Association (NDIA).

### HOW TO APPLY

Submit the following at <https://www.iitsec.org/education/career-investment/scholarships> no later than 21 June 2024.

1. Statement of how the scholarship will aid student in career pursuit (not more than 500 words). The synopsis must include a description on how the scholarship fits into the applicant's planned career by incorporating the Modeling, Simulation, Training or Education field.
2. Proof of U.S. Citizenship (copy of Birth Certificate, Social Security, or Passport).
3. Personal resume to include positions, outstanding awards, publications (if any) and leadership capabilities. Ensure that your contact information (i.e. mailing address, phone, and e-mail) is included.
4. Undergraduate transcript.
5. Graduate transcript (if applicable). Official transcripts preferred.
6. Recommendations from major advisor and one professor from the aforementioned focus areas.

**DIRECT INQUIRIES TO:** National Training & Simulation Association I/ITSEC Scholarship Program  
Reneé Despot, Associate Director, NTSA Operations • Phone: (703) 247-9490 • E-mail: [rdespot@NTSA.org](mailto:rdespot@NTSA.org)


**SUBMISSION DEADLINE 21 JUNE 2024 • AWARD ANNOUNCEMENT 2 AUGUST 2024**  
**FUNDS WILL BE MADE AVAILABLE TO THE STUDENT(S) FOR THE FALL 2024 TERM**



# ANNUAL I/ITSEC 5K RUN/WALK/ROLL



**WEDNESDAY,  
4 DECEMBER 2024**  
OCCC, South Concourse  
0530 Packet Pickup  
0645 Start Time

<http://www.iitsec.org/attendees/planningyourstay> •  [www.facebook.com/iitsec5k](http://www.facebook.com/iitsec5k)

All registered runners will receive a custom race tech shirt, finishers race medal, race bib and official timing by Milestone Race Authority, and pre- and post-race refreshments. Tax-deductible registration.

**REGISTER BY  
1 OCTOBER  
TO GET A  
SHIRT**

End of August – 1 October (Register by 1 October to secure your shirt & medal)	<b>\$50</b>
2 October – 22 November (Shirt & medal are not guaranteed)	<b>\$50</b>
23 November – 4 December (Shirts & medals are not available)	<b>\$65</b>

We are excited to once again be holding the I/ITSEC 5K (3.1 miles) Run/Walk/Roll to benefit the Tunnels to Towers Foundation and the I/ITSEC STEM Initiative. Come out and have a great morning of fun while you support these two great organizations!

## YOU HAVE FOUR GREAT OPTIONS TO PARTICIPATE:

- 1 TRADITIONAL 5K PARTICIPATION** – Get out there, watch the sun rise, and put some pavement miles under your feet.
- 2 SNOOZE BUTTON** – Don't do mornings (or running)? We have you covered with this option.
- 3 Virtual 5K** – Want to participate on your own time and your own location? Here is your chance! Run a distance of 5k (3.1mi) the week of I/ITSEC with a GPS enabled app (Run Keeper, Map My Run, Zombies RUN!), like us on Facebook, and tag us with #IITSEC5K.
- 4 NOT INTERESTED IN RUNNING?** Make a donation instead which will go miles in supporting our great charities.

Only in-person participants receive a shirt and medal. Shirt sizes are not guaranteed.  
Snooze and Virtual participants do not receive a shirt or medal.

## CHARITIES THE 5K WILL SUPPORT



### TUNNEL TO TOWERS:

Tunnel to Towers helps America's heroes by providing mortgage-free homes to Gold

Star and fallen first responder families with young children and by building custom-designed smart homes for catastrophically injured veterans and first responders. Tunnel to Towers is also committed to eradicating veteran homelessness and aiding the victims of major U.S. disasters.



**I/ITSEC STEM:** The I/ITSEC STEM Initiative is a non-profit, 501c3 organization founded

and maintained by the National Training and Simulation Association to support and promote activities encouraging students interests and pursuits of Science, Technology, Engineering, and Mathematics. For more information on this ongoing program, please visit the Education / STEM section on the I/ITSEC home page.

# Earle L. Denton Memorial Golf Tournament

Organized by Central Florida Chapter NDIA • Sunday, 1 December **OR** Monday, 2 December



## DEADLINES

Golf On-Line Registration	24 November
Sponsorship	24 November

## TOURNAMENT TIME

Sunday	1100 Registration	1230 Shotgun
Monday	0630 Registration	0730 Shotgun

## POINT OF CONTACT

Debbie Berry 407-748-3807 • [debbie.berry@lmco.com](mailto:debbie.berry@lmco.com)

## FORMAT

Captain's Choice / Scramble

## PAIRINGS & REQUESTS

Final assignments and pairings will be made by the tournament coordinator. Priority is based upon receipt of payment.

**NOTE:** To guarantee requested pairings, all golfers (two, three or four) **MUST** be entered during a single login session. Golfers registering separately **MUST** clearly specify pairing requests under comments. The tournament coordinator will attempt to honor all requests.

## CANCELLATIONS

Must be received via email to [debbie.berry@lmco.com](mailto:debbie.berry@lmco.com) by close of business 8 November to receive 50% refund. No refunds thereafter. Substitute golfers are permitted.

## ON-LINE REGISTRATION

- Register and/or select sponsorship at <https://www.iitsec.org/attend/registration-fees>
- Register one to four players per login.

## FEES

\$130 per player (*green fees, range balls, cart, lunch*)

Coordinate club rentals directly with the pro shop.

## SPONSORSHIPS

Details available at [iitsec.org](http://iitsec.org)

Select hole, beverage cart, putting contest, or a sponsorship package.

Fees start as low as \$500.

## SPONSORS

Send your logos via email to [debbie.berry@lmco.com](mailto:debbie.berry@lmco.com) no later than 24 November. Do not bring your own sign.

*\*Scholarships and additional qualified initiatives supported through tournament proceeds. For a full list of initiatives (STEM, etc.), contact Central Florida Chapter NDIA.*





# SERIOUS GAMES



SHOWCASE & CHALLENGE

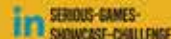


*ENTER YOUR SERIOUS GAME TO  
COMPETE FOR PRESTIGIOUS AWARDS*

## SUBMISSIONS OPEN SUMMER 2024



SHOWCASE YOUR SERIOUS GAME TO  
EDUCATION & TRAINING LEADERS AS PART OF  
I/ITSEC 2024 IN ORLANDO, FL



**WWW.IITSEC.ORG**

INTERSERVICE/INDUSTRY TRAINING SIMULATION & EDUCATION CONFERENCE



**WWW.SGSCCHALLENGE.COM**