

### **EMEA WSEC 2023**

Europe, Middle East, Africa

#### HYBRID EVENT

**Workshop and Conference** Sevilla, Spai<u>n - 24-26 April, 2023</u>



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### Welcome from the Event Chair

I want to welcome you to the most representative event of INCOSE EMEA in 2023 on behalf of the EMEA WSEC 2023 organizing committee. This year a unique event combining the conference and the workshop in Seville, Spain. It will be an effective forum for academicians, researchers, and practitioners to advance knowledge, research, and technology aligned with the INCOSE Vision 2035 for a better world. With a theme inspired by the vital role that Systems Engineering can play in achieving the United Nations Sustainable Development Goals (UN SDGs), targeting Societal Challenges, and focusing on highly complex systems. One of the central aims of the event is to exchange ideas and to create networks within INCOSE EMEA, especially after the pandemic years we had. The agenda of this conference covers a wide range of exciting topics related to all theoretical and practical aspects of sustainability, including but not limited to Systems Engineering in a Sustainable World. Furthermore, social events will allow you to exchange thoughts with colleagues and create memories with them. We are creating a better world for all of us through Systems Engineering!

**Anabel Fraga**Event Chair

### Welcome from the Program Chair

On behalf of the EMEA WSEC 2023 technical program committee, I wish you all a very warm welcome to the first joint workshop and conference held by INCOSE's EMEA sector. Our chosen theme of sustainability has resulted in high engagement from across the systems engineering community and signals a call to action for systems engineering practitioners to help solve some of our biggest global issues. Now is the time to find our voice to ensure a better world for the future. I'm truly proud of the diverse program we have put together and that we can provide both an in-person and virtual offering to maximise the interactions whilst remaining inclusive to those who cannot travel. A wonderful occasion awaits, enabling professional and social exchanges with friends and colleagues both old and new. We hope you enjoy the variety of sessions on offer and seize the opportunity to make a difference.

**Peter Graham** Program Chair

### Program Committee

Event Chair Anabel Fraga, Spain
Technical Chair Louwrence Erasmus, South Africa
Program Chair Peter Graham, UK
Technical Workshop Chair Jean-Claude Roussel, France
Financial Chair René Oosthuizen, South Africa
Communications and Quality Chair David Ward, Italy
Technical Conference Co-Chair Omar Hammami, France
Technical Workshop Co-Chair Luca Paladino, France
Session Chair Coordinator Carlo Leardi, Italy
Chair for Student Outreach Tom Aldous, UK
Communications management Luis Andés Olmedo, Spain
Sector EMEA Director Sven-Olaf Schulze, Germany
Event Management KMD Events

Special Thanks to Cecilia Haskins, Historian and Advisor. For her support to the Event Chair and the TPC.

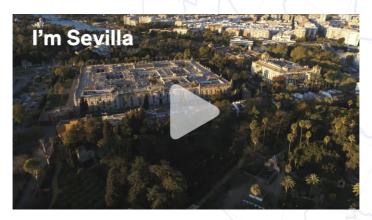
### About Sevilla

Sevilla, the capital of Andalusia, currently has almost 700,000 inhabitants. For centuries it has been famous for the leisure activities offered by its river, and for the Real Alcazar monument. The latter is where the royal family stay upon their visits to Sevilla, making it the oldest royal palace in Europe that is still in use. During your trip, you will discover the Feria de Abril, a lively annual festival since 1846. You will be able to enjoy delicious Spanish fare, while experiencing century-old Sevilla traditions.



Sevilla, capital de Andalucía, cuenta hoy casi 700 000 habitantes. Tiene su fama gracias a su actividad fluvial desde varios siglos. Uno de sus monumentos más importantes de Sevilla es el Real Alcázar. Palacio Real más viejo de Europa que sigue siendo usado como cuál y es en este mismo que suele venir la familia Real de España cuando viene de visita a Sevilla.

Durante vuestro viaje en Sevilla, vais a descubrir la feria de abril que se establezco en 1846. Es la ocasión para todos de probar muchas comidas típicas de España, pero también de descubrir las tradiciones sevillanas que siguen siendo desde siempre.



Watch more about Sevilla https://youtu.be/e8DdY4Ypttl

### General Information

#### Registration

The EMEA WSEC 2023 registration desk is located on Ground Floor and is open:

#### **Badges**

Yellow ...... Day Attendance White ...... Full Registration

Purple ...... Guests

#### **Breakfasts**

Breakfasts will not be provided by the event organisers. If you are staying at the Barceló Sevilla Renacimiento, breakfast for one person is included in the room rate and will be served at the hotel restaurant from 06:00 to 08:00.

#### **Breaks**

Morning and afternoon breaks will be served in the Ballroom Foyer. Morning breaks are from 10:30 to 11:00, Monday, Tuesday and Wednesday. Afternoon breaks from 15:00 to 15:30 Monday, Tuesday and Wednesday.

#### Lunches

Buffet lunches will be served from 12:30 to 13:30 in Restaurant Colón - Ground Floor.

#### Receptions

**Ice Breaker Reception** (*Ticket required*) - Foyer – Ground Floor Monday, 24 April - 18:00 - 20:00

Social Event (Ticket required)
Tuesday, 25 April - 17:00 - 20:00
Departure from the hotel @ 16:15 by bus please bring your passport with you.

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#### WiFi Connection

To connect to the internet, please use the wifi network

SSID name: **EMEAWSEC** Password: **Incose23** 

### e-Proceedings

Connect to the platform to access the e-proceedings. Enter the email address used to register to the Conference and the confirmation number included in your confirmation e-mail. Then you can navigate through the program to download individual papers or all papers.

#### Social Media

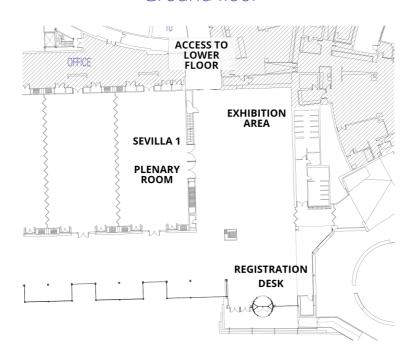
Help create some online Buzz by tweeting #EMEAWSEC, @incose\_org

#### **APP**

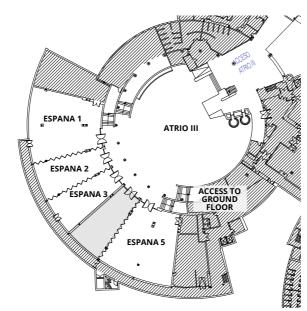
Flash the QR code below or connect to the website with your smartphone or tablet and you will receive instructions how to download the app for Apple or Android devices.



## Floorplan Ground floor



### Lower floor

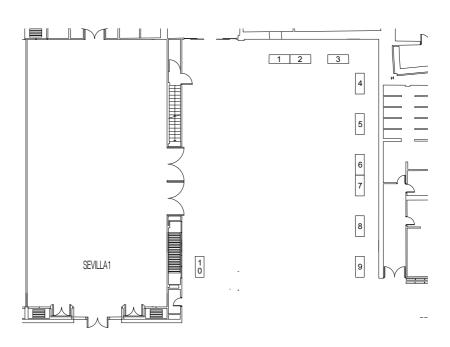


### Exhibition

### **Exhibitors to date**

#### **Double**

Jama Software	6-7
ULMA Embedded Solutions	1-2
Single	
Dassault Systèmes	9
Ingenieria de Sistemas para la Defensa de España sa sme mp - ISDEFE	4
Project Performance International	3
The MathWorks S.L.	10
The REUSE Company	8
Tom Sawyer Software	5



### **Show Hours**

Monday, 24 April 10:30 – 18:00 Tuesday, 25 April 10:30 – 16:00 Wednesday, 26 April 10:30 – 16:00



### Monday Program

	Monday mogranii	
08:15	Welcome and Introduction	Sevilla 1
08:45	Welcome from INCOSE EMEA Sector Director, INCOSE President, and INCOSE President-Elect	Sevilla 1
09:05	Keynote 1 : Some key messages from the 6th IPCC Synthesis Report Gerhard Krinner (CNRS - IPCC)	Sevilla 1
09:50	Announcement and Good day	Sevilla 1
10:00	Jama Software Session: 1.1 sponsored by Jama Software	Sevilla 1
	Semantic Systems Engineering - A case study with SAFRAN Group Presenter(s): Jose Fuentes (The REUSE Company) Session: 1.2 sponsored by The REUSE Company	España 1
	Tom Sawyer Software Session: 1.3 sponsored by Tom Sawyer Software	España 5
	INGENIERIA DE SISTEMAS PARA LA DEFENSA DE ESPAÑA SA SME MP - ISDEFE Session: 1.4 sponsored by ISDEFE	España 3
	SEP Test Session: 1.5	España 2
10:30	Break	Foyer 1
11:00	INCOSE Vision 2035 Heinz Stoewer Session: 2.1.1	Sevilla 1
	Realizing Digital Threads for engineering of sustainable products Fran Gery (IBM) Session: 2.2.1	España 1
	An MBSE Approach for Argonaut Alberto Gonzalez Fernandez, Elaheh Maleki, Ludovic Duvet, Manon Tarrade (European Space Agency) Session: 2.3	España 5
	Empowering Women Leaders in SE & Diversity, Equity and Inclusion Awareness Anabel Fraga Session: 2.4	España 3
	Engineering Sustainable Astronomical Research Infrastructure Virt Gelys Trancho, Sarah Gajadhar (TMT International Observatory) Session: 2.6.1	rual Room 1
11:45	Introduction of Future of Systems Engineering (FuSE) initiative Presenter(s): William Miller; Ralf Hartmann Session: 2.1.2	Sevilla 1
	Next-Generation Completeness and Consistency Management in the Digital Thread of the Future Geza Kulcsár (incquery labs) Session: 2.2.2	España 1
	From Operational Concept Development to Systems Architecture Definition with SysML and MBSE Grid approach  Aurelijus Morkevicius, Aiste Aleksandraviciene	España 5
12:30	Session: 3.3  Lunch Sponsored by Restate	urant Colón
13:30	FuSE Session 1: How might we advance Systems Engineering Methodologies to Engineer a more Sustainable World? A FuSE Workshop Chris Hoffman, Martina Feichtner, Stephan Finkel Session: 3.1	Sevilla 1
	Past, Present and Future of Systems Science as a Scientific Foundation of SE Javier Calvo-Amodio, James Martin Session: 3.2	España 1











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### Monday Program

13:30 Setting a common Systems Engineering Language: How concepts mapping can help España 3 Jean Ďuprez Session: 3.4 How to apply for CSEP? Courtney Wright, Joshi Mrunmayi (INCOSE) España 2 **UAE's Energy System and GHG Emissions Reduction Pathways** Virtual Room 1 to Achieving National Goals by 2050 Ammar Hummieda, Ali Bouabid (Khalifa University) Session: 3.6.1 13:55 How to Apply for ESEP España 2 Courtney Wright, Frederic Autran (INCOSE) Session: 3.5.2 14:15 How to Apply for Academic Equivalency España 2 Courtney Wright, Bernardo Delicado (INCÓSE) Session: 3.5.3 Interoperable Smart and Sustainable Urban Energy Systems (ISSUES) Virtual Room 1 Anabel Fraga (UC3M University); Raul Pastor (Seam, UC3M University); Luis López-Cozar (Azentúa) Session: 3.6.2 14:40 Impact of INCOSE Systems Engineering Handbook update on Certification Process Courtney Wright, Joshi Mrunmayi (INCOSE) Session: 3.5.4 15:00 **Break** Fover 1 15:30 Redefining and customizing the validation strategy to ensure accomplishment Sevilla 1 of UNESCO's Sustainable Development Goals. Alberto Sols Session: 4.1.1 The ENYSE journey to build innovative and more sustainable products España 1 Almudena Duran Peña (IBM) Session: 4.2.1 Smart Cities Initiative Metrics and UN Sustainability Goals: España 3 How to make it a perfect match Jennifer Russell, Marcel Van de Ven, Matthew Hause Session: 4.4 **Natural Systems** España 2 Curt McNamara Session: 4.5 Circular human sphere - The conceptual development of embedding Virtual Room 1 a social pillar in the Circular Economy framework Leandi Van der Linde, Siebert Benade (GSTM University of Pretoria) Session: 4.6.1 16:15 Engineering a sustainable world by enhancing the scope of systems of systems Sevilla 1 engineering and mastering dynamics Rasmus Adler, Frank Elberzhager, Florian Balduf (Fraunhofer IESE) Session: 4.1.2 Challenges of systems engineering approach for innovative technologies España 1 Kelly Lance (Nova Systems) Session: 4.2.2 Evolving the Systems Engineering Discipline to Address Global Challenges Virtual Room 1 Peter Brook (INCOSE Fellow) Session: 4.6.2 Workshop Feedback and Announcements 17:00 Sevilla 1 Session: P2 Ice Breaker Reception 18:00 Fover 1

Special

Session

Workshop

Sponsors

Paper &

Presentation

Plenary

**Panel** 

**Tutorial** 

### Tuesday Program

00.45	with the transfer	6 '11 4
08:15	Welcome and Introduction	Sevilla 1
08:25	Keynote 2 : Systems Engineering support for Industry to meet UN SDG Cecilia Haskins (NTNU and USN)	Sevilla 1
09:10	Announcement and Good day	Sevilla 1
09:15	ULMA Embedded Solutions Session: 5.1 sponsored by ULMA Embedded Solutions	Sevilla 1
	Dassault Systèmes Session: 5.2 sponsored by Dassault Systèmes	España 1
	Project Performance International Session: 5.3 sponsored by Project Performance International	España 5
	Bridging the Gap: What MathWorks Brings to MBSE Presenter(s): Andrew Grabowski Session: 5.4 sponsored by The MathWorks S.L.	España 3
09:45	Presidential Address Session: 6.1	Sevilla 1
09:45	SE application in Nuclear Big Science Sebastiaan Voorderhake (Belgian Nuclear Research Centre) Session: 6.2	España 1
	Enabling Architecture Thinking by using Architecture Spaces Presenter(s): Anand Kumar Session: 6.3	España 5
	Keeping People First in the Smart Cities Enterprise Matthew Hause (SSI); Lars-Olof Kihlström (Syntell AB); Jennnifer Russell (Garver) Session: 6.4	España 3
	Digital Interface Management System (DIMS) Joshi Mrunmayi (ISAE Supaero); Mudit Mittal (Blue Kei) Session: 6.5	España 2
10:30	Break Sponsored by MathWorks	Foyer 1
11:00	The Archimedes Initiative: a Global Research Network Moderator(s): Dinesh Verma (Stevens Institute of Technology); Panelist(s): Wouter Leibbrandt (TNO/Embedded Systems Institute (ESI)); Tom McDeri (Stevens Institute of Technology); Martin Törngren (KTH Royal Institute of Technology) Bolles (Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)); Session: 7.1	Sevilla 1 mott y); André
	FuSE Session 2: Extend the SE Vision 2035's Systems Engineering Challenges and Roadmap with active contribution by the EMEA participants Paul Schreinemakers, Martina Feichtner, Stephan Finkel Session: 7.2	España 1
	Sustainability enabled by Configuration Management Adriana D'Souza Session: 7.4	España 3
	Lean Healthcare Systems Engineering Process for Clinical Environment Bo Oppenheim Session: 7.5	España 2
		tual Room 1
	from a Systems Engineering perspective Anabel Fraga (Universidad Carlos III de Madrid); Natalie Davila-Rendon (LMCO); Ray Wolfgang (Sandia); Luis Andes (INDRA); Francesco Dazzi (INAF - National Institute fo Astrophysics); Elena Gallego Palacios (Thales); Adam Williams (Sandia) Session: 7.6.1	ymond r

### Tuesday Program

11:45 Exploring Explainable Artificial Intelligence to aid Systems Engineers Virtual Room 1 in Design and Evaluation of Complex Systems Ali K. Raz, Shou Matsumoto, Paulo Costa (George Mason University) Session: 7.6.2 PROJECT PERFORMANCE Sponsored by 12:30 Restaurant Colón 13:30 FuSE Session 3: Systems Engineering Foundations: Sevilla 1 An experiment on the Conservation of Complexity. A FuSE Workshop Joshua, Martina Feichtner, Stephan Finkel Session: 8.1 Hazardous Waste Treatment España 1 Moshe Katz Session: 8.2 PM-SE Integration: Focus on a serious game for students on eco-design considerations Jean-Claude Roussel, Jean-François Veron, John Lomax Session: 8.4 Requirements Use Case on Sustainability España 2 Tami Katz, Lou Wheatcraft, Jean Duprez Session: 8.5 MBSE Maturity Levels in European Railway Sector Virtual Room 1 Marc Sango (SNCF) Session: 8.6.1 14:15 Creating a general Collaborative Systems Thinking Culture in 7-steps Virtual Room 1 for any organization and any sustainability application Anabel Fraga (Universidad Carlos III de Madrid); Mickael Bouyaud (Ingenico); Natalie Davila-Rendon (Lockheed Martin Corporation); Raymond Wolfgang (SANDIA); Alex Deng (SNC-LAvalin Atkins); Jean Duprez (Airbus); Leema John (Eli Lilly & Company); Ryan Noguchi (Aerospace Corp.); Erika Palmer (Cornell University); Jay Patel (Lockheed Martin Corporation); Maria Romero (Aerospace Corp.); Michael Wozniak (Lockheed Martin Corporation) Session: 8.6.2 Sponsored by MathWorks 15:00 Fover 1 15:30 Workshop Feedback and Announcements Sevilla 1 Session: P4 17:00 Social Event Sponsored by

### Wednesday Program

08:15		Welcome and Introduction	Sevilla 1
08:25		Keynote 3 : Leading for a Sustainable Future	Sevilla 1
00.23		David Long (Blue Holon)	Jevilla 1
09:10		Announcement and Good day	Sevilla 1
09:15		Jama Software Session: 9.2 sponsored by Jama Software	España 1
09:15		ULMA Embedded Solutions Session: 9.3 sponsored by ULMA Embedded Solutions	España 5
09:45		Technical Director Address Session: 10.1	Sevilla 1
		Utilization of integrated simulation modeling for process flow analysis and improvement in the Emergency Department Aleksander Buczacki (Warsaw University of Technology); Ali Ghobadi (Kaiser Permar Bernard J. Tyson School of Medicine, Department of Clinical Science. Pasadena, CA); Movahedi (Kaiser Permanente Orange County); Bohdan Oppenheim (Loyola Marym University) Session: 10.2	Hassan
		Perspectives on Models Erik Herzog (SAAB AB); Johanna Axehill (Saab AB); Åsa Nordling Larsson (Saab) Session: 10.3	España 5
		Unifying the views of ecological and engineering resilience in applications of coupled human systems modelling for sustainable development Steve Conrad (Colorado State University) Session: 10.4	España 3
		Transformation Challenges in Transportation Industry and IVECO Group Approach Tugrul Yildirim, Felice Radogna, Ayman Mokdad (IVECO Group) Session: 10.5	España 2
10:30		Break	Foyer 1
11:00	П	Fuse Session 4: Extending systems engineering application to address climates and the session 4: Extending systems engineering application to address climates and the session 4: Extending systems engineering application to address climates and the session 4: Extending systems engineering application to address climates and the session 4: Extending systems engineering application to address climates and the session and the sess	e change
		Sevilla 1 Gerhard Krinner, Tom Strandberg, Martina Feichtner, Stephan Finkel Session: 11.1	
		Human System Integration (HSI) for Sustainability Guy Boy, Christophe Merlo, Avi Harel, Grace Kennedy, Gauthier Fanmuy, Jean-Jacqu Stéphane Vales Session: 11.2	España 1 es Speyer,
		What if Architecture is a lever of Sustainability for Complex Systems Christophe Surdieux, Jean-Luc Wippler, Prakhar Agarwal, Stéphane Rivet, Olivier Klo Session: 11.3	España 5 tz
		Academic Council in EMEA Sector Alejandro Salado, Rob Vingerhoeds Session: 11.4	España 3
		Systems and SoS Engineering challenged to support EU's ambitious sustainability plans (focus on the 100% Electric Vehicle @2035 case) Yann Chazal, Mickael Bouyaud, Stephen Powley Session: 11.5	España 2
		SystSystems Thinking: From Pioneering to Mainstream Presenter(s): Mike Jackson Session: 11.6.1	tual Room 1











### Wednesday Program

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11:45	Automatic creation of trace links based on model content and meta data Martin Leo Valdivia Dabringer, Carina Fresemann, Rainer Stark (Technische Univ Session: 11.6.2	
12:30	Lunch Sponsored by Spassault Re	estaurant Colón
13:30	Architecting sustainable infrastructure projects Moderator(s): Rashmi Jain (Montclair State University); Panelist(s): Michael Salvato (Mott MacDonald); Yoshimasa Masuda (Carnegie Me University); Mark Enzer (Mott MacDonald); Naohiko Kohtake (Keio University); Session: 12.1	Sevilla 1 Ellon
	Architecting Sustainable Systems Anand Kumar, Gary Smith, Mickael Bouyaud, Peter Bernus Session: 12.2	España 1
	Human Centric Artificial Intelligence for Sustainable SE Herve Panetto, Barclay Brown, Nouria Oliver Session: 12.3	España 5
	Integration of Sustainable Development and Societal Responsibility in SE education: the example of Aquapoinc Greenhouse project Christophe Merlo, Rob Vingerhoeds Session: 12.4	España 3
	ISO STEP Standard and Systems Engineering Pascal Hubert, Kyle Hall, Juan Carlos Mendo Session: 12.5	España 2
15:00	Break \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Foyer 1
15:30	Workshop Feedback	Sevilla 1
16:00	Awards Ceremony	Sevilla 1
16:15	Farewell and Announcement	Sevilla 1

Plenary

Panel

### **INCOSE Mission**

### Overview

The International Council on Systems Engineering (INCOSE) is a not-for-profit membership organization that promotes international collaboration in systems engineering practice, education and research.

### Vision

A better world through a systems approach.

### Mission

To address complex societal and technical challenges by enabling, promoting, and advancing systems engineering and systems approaches.

### Strategic Objectives

**Premier.** INCOSE is the premier choice of systems engineers everywhere for their professional development needs.

**Future.** INCOSE leads the community in shaping the future of systems engineering.

**Value.** INCOSE delivers ever greater value to a growing and increasingly diverse membership.

50+ Working Groups

Corporate Adv Board Mem

**Vibrant Academic** 

Community Faculty, Curriculum, Research, Student Divisions, Youth Outreach

Chapters

70+ Chapters in over 35 Countries

For additional information about INCOSE, visit our website www.incose.org

or contact us at info@incose.org

# (FuSE) Future of Systems Engineering

### Vision: Inspire the global community to realize the SE Vision

- FuSE refines and evolves the SE Vision 2035 across competencies, research, tools & environment, practices, and applications.
- FuSE identifies critical gaps towards the vision realization and initiates & supports relevant actions
- FuSE fosters involvement and collaboration within and outside of INCOSE.
- FuSE educates, shares success, and expands.

### The FuSE Program is organized in 4 streams.

### Vision & Roadmaps



The Systems Engineering Vision and Roadmaps stream continuously refines, evolves, and complements the SE Vision 2035. Furthermore, the Vision and Roadmaps stream creates an integrated set of roadmaps across the four FuSE streams. The streams are interrelated and concurrently guide and influence each other. The intermediate stream goal is to frame the structural relationships and value models to support the roadmaps creation.

#### Foundations



The SE Foundations stream has its basis in both theory and industrial practice. The intermediate stream goal is to assess the adequacy of the foundations and identify gaps to determine future directions. Special consideration will be given to the theoretical foundation of the SE as a discipline on one hand and the practical application foundations using principles and heuristics on the other hand.

### Methodologies



The SE Methodologies stream guides the advancement of practices, methods, and tools for engineering systems to be fit for purpose at the scale, interrelatedness, complexity, non-determinism, and emerging technology innovations such as Al and agility. The intermediate stream goal is to assess the adequacy of current INCOSE technical products, ongoing FuSE projects in this stream, and identify gaps.

#### Application Extensions



The SE Application Extensions stream integrates social sciences, soft systems, as well as initiatives such as Smart Cities to address grand challenges to meet human and societal needs as stated in the United Nations Sustainable Development Goals. The intermediate stream goal is to frame the value model to justify systems engineering's role at the policy table for these grand challenges.

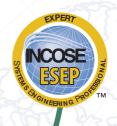
### **INCOSE Certification**

The International Council on Systems Engineering established a multi-level Certification Program to provide a formal method for recognizing the knowledge and experience of Systems Engineering Professionals (SEPs), regardless of where they may be in their career.



#### **Multi-Level Credentials**

The ASEP, CSEP, and ESEP credentials cover the breadth of systems engineering at increasing levels of leadership, Accomplishments, and experience.







### What is Certification?

Certification is a formal process whereby a community of knowledgeable, experienced, and skilled representatives of an organization, such as INCOSE, provides confirmation of an individual's competency (demonstrated knowledge, education, and experience) in a specified profession. Certification differs from licensing in that licenses are permissions granted by a government entity for a person to practice within its regulatory boundaries. Certification also differs from a "certificate" that documents the successful completion of a training or education program, in that it is not guaranteed simply by paying a fee, and certification must be maintained.

www.incose.org/certification

### Notes





hybrid event

Honolulu HI USA



Premier Systems Engineering Conference

### Mark your calendar now!

July 15 - 20, 2023









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### And to our exhibitors

Georgia Tech Research Institute, Johns Hopkins Whiting School of Engineering, LieberLieber Software GmbH - IncQuery, MathWorks, Systems Engineering Research Center, Tom Sawyer Software, University of Connecticut, University of Maryland-Engineering

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Access to the latest thinking relevant to the practice of Systems Engineering

3

#### **SPOTLIGHT**

Put a spotlight on your organization's competency in Systems Engineering

4

#### **ASSOCIATION**

Be associated with the highest culture of professionalism and innovation

5

#### SUPPORT

Demonstrate organizational support to INCOSE's mission

6

#### RELATIONSHIPS

Develop sustainable business relationships



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Be associated with the highest culture of professionalism and innovation

- Access to the latest thinking relevant to the practice of Systems Engineering
- Put a spotlight on your organization's competency in Systems Engineering
- Develop sustainable business relationships

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4

Days

2

Social events

11

Breaks and lunches

### Lots of possibilities to interact with systems engineering communities

Visit www.incose.org/symp2023
and contact us TODAY - The IS2023 Organizing Team

### **Mark Your Calendar**

**JUN** 14-16

**18**<sup>th</sup> **Annual System Of Systems Engineering Conference** Lille, France

www.sosengineering.org/2023

**JUL** 15-20



33 rd Annual INCOSE

Honolulu, HI, USA July 15 - 20, 2023

33rd Annual INCOSE International Symposium Honolulu, HI, USA

www.incose.org/symp2023

**AUG** 21-24

INCOSE SESA: Australian Simulation Congress 2023 Adelaide, SA, Australia

www.simulationcongress.com

SEPT

14-17

WSRC 2023 Tri-Cities, WA, USA

www.incose.org/wsrc/

**OCT** 11-14

AOSEC 2023
Bangalore, India

www.aosec2023.in

**JAN** 27-30



Annual INCOSE international workshop

HYBRID EVENT

Torrance, CA, USA
January 27 - 30, 2024

**2024 Annual INCOSE International Workshop** Torrance, CA, USA