The U.S. Army FUZE xTech Program – xTech|Live at CES 2027 Competition Announcement

I. Background and Purpose

The U.S. Army is seeking innovative technology solutions from eligible small, medium, or large businesses attending CES 2027 in Las Vegas, NV, from January 6–8, 2027, to assist with key Army priorities through the xTech|Live at CES 2027 competition. This platform offers participants the opportunity to engage with the U.S. Department of War (DoW) and compete for prize money.

The U.S. Army FUZE xTech Program, managed under the Office of the U.S. Assistant Secretary of the Army for Acquisition, Logistics, and Technology (ASA(ALT)), is partnering with Program Management Executive (PME) Mission Autonomy to deliver the xTech|Live at CES 2027 competition. Recognizing the need to reach beyond traditional defense partners, the U.S. Army is actively expanding its engagement with the commercial sector through dynamic platforms such as live pitch competitions – creating new opportunities for industry to directly shape the future of national security. This initiative aims to (1) understand the spectrum of 'world-class' technologies being developed commercially with potential U.S. DoW applications; (2) actively integrate the sector of non-traditional innovators into the U.S. DoW Science and Technology (S&T) ecosystem; and (3) provide expertise and feedback to accelerate, mature, and transition technologies of interest to the U.S. DoW.

The xTech|Live at CES 2027 competition will consist of three (3) rounds:

(1) Optional pre-registration with quad chart submission (if selected will secure a guaranteed timeslot for the live pitch event);
(2) On-site registration with elevator pitch (on a first-come, first-serve basis); and
(3) Live pitch event.

The competition will award up to $500,000 in cash prizes to selected participants. **Up to 40 applicants will be selected to present their technology concept to a live panel of U.S. Army and DoW subject matter experts (SMEs) at CES 2027 from January 6–8, 2027.** The U.S. Army intends to select up to five (5) winners to receive a cash prize of $100,000 each. Additional details on prize structure can be found in Section VI.

There are two (2) ways to register for xTech|Live at CES 2027:

(1) **Pre-registration with quad chart submission** to potentially secure a guaranteed timeslot for the live pitch event; and
(2) **On-site registration with 60-second elevator pitch**, available on a first-come, first-serve basis, subject to the Army's needs.

All eligible entities, regardless of registration method, will be required to complete a registration form. This is required to ensure alignment with the U.S. Army's operational needs and priorities. Additional details on the registration options can be found in Section IV.

All presentations will be conducted in front of a public audience.

In addition to non-dilutive cash prizes, participants may have the opportunity to engage with U.S. Army and DoW experts attending CES 2027, receiving valuable feedback on their innovations.

The xTech|Live at CES 2027 competition is conducted in accordance with 10 U.S.C. § 4025, which authorizes the use of prize competitions to stimulate innovation and identify promising technologies for national security applications. Requirements for competition under 10 U.S.C. §

3201 are satisfied upon completion of the challenge and use of prize authority. As such, this competition serves as a competitive down select mechanism that enables government organizations to engage with winners through a variety of follow-on acquisition pathways, including but not limited to:

- 10 U.S.C. § 4114 – Selection of contractors for prototype projects
- 10 U.S.C. § 4022 – Prototype projects
- 10 U.S.C. § 4023 – Procurement for experimental purposes
- 10 U.S.C. § 4001 – Research and development
- 10 U.S.C. § 4021 – Other Transaction Authority (OTA)
- 10 U.S.C. § 3458 – Authority to acquire innovative commercial products and commercial services using general solicitation competitive procedures
- 15 U.S.C. § 3703 – Technology innovation partnerships
- 15 U.S.C. § 638 – Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs

Government organizations are encouraged to consider leveraging these statutory authorities to pursue follow-on awards with companies identified through the xTech competition process. The Army may consider participants for subsequent acquisitions, agreements, or research opportunities. Any follow-on award must satisfy the applicable statutory requirements, funding restrictions, and acquisition procedures. Selection for or receipt of a cash prize does not guarantee a subsequent Government award. This approach supports rapid technology maturation, accelerates the transition of innovative capabilities to the field, and promotes collaboration with non-traditional and small business performers.

While the authority of this program is 10 U.S.C. § 4025, the xTech|Live at CES 2027 competition may generate interest by another U.S. Army, DoW or United States Government (USG) organization for a funding opportunity outside of this program (e.g., submission of a proposal under a Broad Agency Announcement). The interested organization may contact the participant to provide additional information or ask for a request for proposal in a separate solicitation. Winners of the prize competition may have opportunities to submit a separate proposal for further development of their proposed technology solution based on the needs of the Army. The Army may use a contract mechanism of their choice and will notify the participants accordingly.

The U.S. Army FUZE xTech Program intends to provide feedback from evaluators to participants following the live pitch event. The purpose of providing this feedback is to help accelerate the transition of the technology to a U.S. Army end-user by providing insight into the best applications for the technology, suggestions for product improvement for U.S. Army use and recommended next steps for development. However, the Government will not respond to inquiries regarding this feedback.

II. Eligibility Requirements

To be eligible for this competition, entities must be a small, medium, or large business attending CES 2027 in Las Vegas, NV.

Each eligible entity:

- Must be able to obtain a CAGE code (U.S. businesses) and/or NCAGE code (international businesses) to process payments (CAGE codes are not required during registration);

- Shall be incorporated in, and maintain, a primary place of business in the U.S. or a foreign country;
- May not be a U.S. federal or foreign government entity or employ a U.S. federal employee acting within the scope of their employment;
- May not be a company or person controlled by, funded by, or under the jurisdiction or direction of foreign adversaries; and
- Must not be based in a foreign country of concern (FCOC), directly funded by an FCOC-government or FCOC-government-subsidized guidance fund or be under the influence of an FCOC-based government in any way. Failure to meet these requirements will result in ineligibility for award.

The U.S. Army FUZE xTech Program will not provide travel or registration funding for eligible entities to attend CES 2027. This competition is conducted by the U.S. Army FUZE xTech Program and is entirely independent of CES.

III. Topics and Problem Statements

The U.S. Army is seeking novel technologies and commercially developed capabilities that may contribute to future Army needs and advance the Army's ability to adopt emerging technologies from the broader innovation ecosystem.

Through this competition, the Army intends to understand the range of technologies being developed by commercial companies, startups, and other innovators that may have potential applications in national security. The Army is particularly interested in technologies that may improve operational effectiveness, decision-making, resilience, efficiency, human performance, and the ability to scale new capabilities in the following three (3) topic areas:

- **Topic 1:** Scaling Assured Autonomy for Operational Use
- **Topic 2:** Artificial Intelligence and Machine Learning
- **Topic 3**: Robotics, Sensors, and the Internet of Things

Technologies that fall exclusively within the portfolio of the U.S. Army Medical Research and Development Command (USAMRDC), which include military infectious diseases, military operational medicine, chemical biological defense, and clinical and rehabilitative medicine, are excluded from xTech|Live at CES 2027.

Topic descriptions can be found in Appendix A of this solicitation.

IV. Program Submission and Competition Structure

The xTech|Live at CES 2027 competition is voluntary and open to all entities that meet the eligibility requirements listed in Section II. **Only one (1) submission per eligible entity is permitted.**

All entities must complete a registration form using the Valid Eval platform, which includes the following information: company address, primary contact's information, CAGE and/or NCAGE (optional), prior demonstrations with DoW or allied/partner nations, and previous U.S. Army and DoW awards—including Army SBIR contracts. **New participants must have access to a current, active email address to create an account in Valid Eval.** Email verification is **required** during the registration process. **All submissions must be in English.**

Failure to meet submission requirements may result in disqualification from participation in the pitch event.

xTech|Live at CES 2027 Participation Pathways: Pre-Registration and On-Site Registration.

Pre-Registration

All eligible entities interested in pre-registration shall submit a quad chart outlining their technology, topic alignment, interoperability, Army benefits, and concept of operations. Each quad chart will be evaluated by U.S. Army and DoW experts for the opportunity to receive a guaranteed timeslot for a live pitch presentation at the xTech|Live at CES 2027 competition.

Pre-registration information and quad chart submission upload must be received by **5:00 PM ET on November 24, 2026.** Submissions received after the deadline will not be considered for pre-registration, and xTech will not respond to any inquiries about quad charts submitted after the deadline. Submissions that are selected for a guaranteed timeslot for a live pitch presentation will be notified by December 22, 2026.

Please note: Entities that elect to participate through the pre-registration pathway, are **not permitted** to register again on-site. Each eligible entity may only pursue **one (1)** registration pathway.

Register now by selecting the xTech|Live at CES 2027 competition image at:
https://www.xtech.army.mil/

Quad charts must be submitted using the template found on the Valid Eval registration page, "Template_xTech_Live_CES_Quad_Chart.pptx." ***Any quad charts submitted in a format other than those provided by the template will not be reviewed.***

Evaluators will review and score quad charts using the following scoring criteria (further details on each scoring dimension can be found on the xTech|Live at CES 2027 competition registration page):

		DEFINITION
CONCEPT OF OPERATIONS	*weight 25%*	Describe your solution's concept of operations (CONOPS). Address: (1) What specific problem does your solution solve? (2) How would the Army use this technology in an operational context? (3) State your current Technology Readiness Level (TRL) and whether your solution is a complete subsystem or a component. The publicly available document 'How the Army Fights' (available on the Valid Eval registration page) provides operational context, including Annex Echo vignettes starting on page 32.
TOPIC ALIGNMENT	*weight 20%*	Describe how your solution aligns with one of the xTech Live at CES topics: (1) Scaling Assured Autonomy for Operational Use, (2) Artificial Intelligence / Machine Learning (AI/ML), or (3) Robotics, Sensors, and Internet of Things (IoT). Describe how your technology advances Army operational capabilities.
INTEROPERABILITY	*weight 20%*	Describe how your solution adheres to a Modular Open Systems Approach (MOSA). Address: (1) What interfaces does your solution expose and what standards or data

		formats do they use? (2) Could a third-party organization integrate your solution using only your documentation, without your engineers present? (3) What data rights, right to repair, or right to modify are you prepared to offer the government? The Army values solutions that prevent vendor lock and enable independent integration by government or third-party teams. Selectively exposing a subset of interfaces while restricting access to others will be viewed unfavorably.
ARMY BENEFITS	*weight 25%*	Describe your technology's impact and improvement upon the state of the art. What measurable benefit does your solution deliver to soldiers and Army operations, and why does that benefit matter? If applicable, address how your solution compares in affordability to existing alternatives. The Army seeks higher-risk, higher-impact solutions — not engineering changes or incremental Improvements.
SUBMISSION QUALITY	*weight 10%*	Present your quad chart clearly and persuasively. Strong submissions feature clean visual layout, precise writing, and compelling arguments that leave no ambiguity about your solution's value.

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Upon conclusion of the quad chart evaluation period, the Army FUZE xTech Program will select **up to 25 pre-registration applicants to receive a guaranteed timeslot to conduct a live pitch presentation at the U.S. Army FUZE xTech Program Booth #60508 in Eureka Park at CES on January 6 or 7, 2027** *(dates, times and locations are subject to change without notice)*.

Pre-registration does not guarantee an entity will be selected to conduct a live pitch presentation at CES 2027.

On-Site Registration

All eligible entities that did not participate in the pre-registration option may register on-site at the **U.S. Army FUZE xTech Program booth #60508 in Eureka Park at CES on January 6, 2027, from 11:00 AM – 3:00 PM PT** on a first-come, first-serve basis *(dates, times and locations are subject to change without notice)*. A quad chart submission is not required for on-site registration.

On-site registration applicants are required to deliver a **timed 60-second elevator pitch** of their technology concept – addressing one (1) of the three (3) topic areas – to a panel of U.S. Army and DoW technical experts. **Follow-up questions may be asked**, and participants must be prepared to provide a **concise 30-second response**.

Please note: Selection for live pitch presentations is **at the sole discretion of the U.S. Army**. While companies may believe their technology aligns with the stated topic, **final determinations will be made exclusively by the Army** based on the content and clarity of the **60-second elevator pitch** and alignment with the **Army's priorities as defined in this announcement.**

Elevator pitches will be evaluated and ranked using the following scoring criteria:

		DEFINITION
60 SECOND - PITCH	CONCEPT OF OPERATIONS	Deliver a clear, concise description of your solution's concept of operations (CONOPS). Briefly address what problem you solve, how the Army would use your technology, and the advantages of your approach. Refer to 'How the Army Fights' (available on the Valid Eval registration page) for context on Army operational priorities.
	TOPIC ALIGNMENT	Describe how your solution aligns with one of the xTech Live at CES topics: (1) Scaling Assured Autonomy for Operational Use, (2) Artificial Intelligence / Machine Learning (AI/ML), or (3) Robotics, Sensors, and Internet of Things (IoT). Describe how your technology advances Army operational capabilities.
weight 100%	ARMY VALUE	Describe the measurable benefit your solution delivers to soldiers and Army operations. The Army is looking for technologies that change how it operates — not incremental improvements. If applicable, briefly address how your solution compares in affordability to existing alternatives.

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The Army FUZE xTech Program will **select up to 15 applicants on-site following the elevator pitches** to present their technology concepts to a live panel of U.S. Army, and DoW SMEs. Selected on-site registration applicants will be assigned a timeslot to conduct a live pitch presentation on **January 7 or 8, 2027** *(dates, times and locations are subject to change without notice)*.

Live Pitch Presentation

All presentations will be conducted in front of a public audience at the U.S. Army FUZE xTech Program booth, #60508, in Eureka Park at CES. By participating in this event, applicants consent to being photographed, recorded, and/or filmed.

Each selected participant will conduct a timed, **five (5)-minute pitch, followed by a five (5)-minute question and answer session with the judging panel.** Participants may bring physical prototypes and printed materials to support their presentation. **No presentation software/applications may be utilized**.

All xTech|Live at CES 2027 competition pitches will be evaluated by government employees and designated support contractors exclusively for the purposes of evaluation and program support.

Presentations will be evaluated and ranked using the following scoring criteria:

		DEFINITION
INTRODUCTION	CONCEPT OF OPERATIONS	Deliver a clear, concise description of your solution's concept of operations (CONOPS). Describe a specific, credible scenario in which the Army uses your technology. The strongest responses answer the question: 'How would the Army use this?' If you cannot answer that question clearly, your pitch will not score well here. Reference 'How the Army Fights' (available

		on the Valid Eval registration page) for operational context
weight 5%	TOPIC ALIGNMENT	Argue your solution is aligned with one of the three xTech Live at CES topics: (1) Scaling Assured Autonomy for Operational Use, (2) Artificial Intelligence and Machine Learning (AI/ML), or (3) Robotics, Sensors, and Internet of Things (IoT). Explain how your solution addresses Army operational priorities and delivers value to soldiers. Reference 'How the Army Fights' (available on the Valid Eval registration page) for grounding.
INTEROPERABILITY & MOSA	INDEPENDENT INTEGRATION	Describe whether a third-party organization could integrate your solution using only your documentation, without your engineers present. This is the single most important interoperability question for this competition. At one end of the spectrum, integration requires your Chief Technology Officer (CTO) to customize proprietary code. At the other end, a third party can build the Lego set without calling Lego. Describe where you fall on that spectrum and provide evidence.
weight 35%	OPEN STANDARDS & VENDORS LOCK RISK	Describe your adherence to open standards and a Modular Open Systems Approach (MOSA). What interfaces and Application Programming Interfaces (APIs) does your solution expose? Are they proprietary or based on standards others already use? Does the government receive the right to repair and modify your solution post-delivery without rewriting the codebase? Evaluators will flag 'integration theater' — exposing only a subset of interfaces while protecting the most valuable ones behind a paywall.
ARMY VALUE & ENGINEERING JUDGMENT	ARMY BENEFITS STATEMENT	Describe the measurable benefits your solution delivers to the Army and explain why those metrics matter. The strongest responses define their own success metrics and then argue impact against them. If your solution offers a cost advantage relative to traditional primes or exquisite systems, a credible, self-assessed affordability statement is valued but not required.
weight 25%	TRADE STUDY QUALITY	Describe the toughest design trade-off your team made during development and explain how you resolved it. Define the competing metrics yourself — this is your opportunity to demonstrate engineering judgment and clear-eyed thinking. The strongest responses acknowledge that every design decision involves trade-offs and show why the team chose as it did. This is a proxy for engineering team competency.
TECHNICAL MATURITY & RISK	TECHNOLOGY READINESS LEVEL	State your solution's current Technology Readiness Level (TRL) and support that claim with evidence. For this competition, the expectation is approximately TRL 6 — a system or subsystem prototype demonstrated in a relevant environment. escribe the most demanding test or demonstration your system has completed, the environment it was tested in, and the

		results. Concept-stage white papers without system-level hardware are unlikely to core well
weight 20%	TECHNICAL RISKS	Identify the most significant technical risks remaining in your solution's development, particularly those related to integration with other systems, scaling from prototype to fielded capability, or operating across heterogeneous platforms. For each risk, describe your mitigation plan, timeline, and any evidence that you are actively retiring risk
TRANSITION READINESS	SYSTEM COMPLETENESS	Describe whether your solution is a complete subsystem capable of performing its function autonomously, or whether it is a component that requires integration into a larger system to deliver value. The Army's formation-based autonomy mission values complete subsystems that can be composed with other systems to accomplish broader missions. Components are not disqualifying — but a component must demonstrate that it is easily integratable using open standards without requiring the vendor's Engineers to complete the integration.
weight 10%	BUSINESS MODEL SUSTAINABILITY	Describe whether your solution will remain accessible and modifiable after the initial contract period. Does the government receive a right to repair? A right to modify — e.g., making configuration-level changes without rewriting the codebase? If your business model ensures the capability remains available and improvable without perpetual vendor dependence, describe how.
PRESENTATION DELIVERY	*weight 5%*	Present your solution clearly and persuasively within the five-minute time limit. Open with a concise concept of operations (CONOPS) that frames your system, the problem it solves, and its Army context. Use your remaining time to address interoperability, Army value, technical maturity, and transition readiness. Visual aids, demonstrations, and hardware are encouraged.

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The U.S. Army FUZE xTech Program will select **up to five (5) participants** as the final winners of the competition. Winners will be announced live on the **Startup Stage in Eureka Park on January 8, 2027, at 1:45 PM PT,** to receive **a cash prize of $100,000 each.**

All competition participants should have at least one (1) member of their company present during the winners' announcement.

Dates, times and location are subject to change.

V. Proposed Schedule

The proposed schedule is outlined below and subject to change without notice.

Date	Activity
November 3–24, 2026	Pre-Registration option open
December 22, 2026	Pre-Registration option selectees notified

January 6, 2027	Live Technology Pitches (10:45 AM – 5:00 PM PT) On-Site Registration & 60-Second Elevator Pitches (11:00 AM – 3:00 PM PT)
January 7, 2027	Live Technology Pitches (9:45 AM – 4:30 PM PT)
January 8, 2027	Live Technology Pitches (9:45 – 11:00 AM PT) Live Winners Announcement (1:45 – 2:15 PM PT)

VI. Prizes and Incentives

Prizes will be offered under 10 U.S.C. §4025 (Prize Competitions). The total prize pool is $500,000. Other non-monetary incentives are provided through the xTech|Live at CES 2027 competition to help industry engage with the U.S. Army.

Phase	Winners	Prize
Live Technology Pitches	Up to 5	$100,000 each
	Total	$500,000

VII. Disclaimers

Registered participants shall be required to assume any and all risks and waive claims against the Federal Government and its related entities, except in the case of willful misconduct, for any injury, death, damage, or loss of property, revenue, or profits, whether direct, indirect, or consequential, arising from their participation in this prize competition, whether injury, death, damage, or loss arises through negligence or otherwise.

VIII. Intellectual Property

The U.S. Army is a strong proponent of deliberate intellectual property (IP) rights and management by the private sector and U.S. DoW. For the xTech|Live at CES 2027 competition:

- The U.S. Federal Government may not gain an interest in IP developed by a participant without the written consent of the participant;
- Nothing in this xTech|Live at CES 2027 prize competition shall diminish the U.S. Government's rights in patents, technical data, technical information, computer software, computer databases, and computer software documentation that the U.S. Government had prior to this xTech|Live at CES 2027 prize competition, or is entitled to, under any other U.S. Government agreement or contract, or is otherwise entitled to under law; and
- The U.S. Federal Government may negotiate a license for the use of IP developed by a registered participant in the prize competition.

IX. Point of Contact

The U.S. Army FUZE xTech Program Office
Office of the Deputy Assistant Secretary of the Army, Research and Technology
Email: usarmy.xtech@army.mil
Website: https://www.xtech.army.mil/

Appendix A – Topic Areas Descriptions

Topic 1: Scaling Assured Autonomy for Operational Use

The Army is seeking novel technologies that enable autonomous and semi-autonomous capabilities to be employed more broadly, reliably, affordably, and effectively. The Army is particularly interested in technologies that can help scale autonomy from individual platforms, isolated demonstrations, or narrowly defined applications to widespread, tailorable, and operationally relevant use.

The Army seeks technologies that advance networks for autonomy, edge computing for autonomy, and other key enablers required to scale autonomous capabilities across formations and operational environments. This includes leap-ahead autonomous capabilities that improve mission effectiveness, resilience, adaptability, and affordability while reducing barriers to fielding, integration, sustainment, and employment at scale.

Technologies should support a Modular Open Systems Approach (MOSA) by enabling interoperable, modular, and adaptable autonomy capabilities that can be integrated, upgraded, replaced, and composed across platforms, mission systems, echelons, and operational environments. Of particular interest are solutions that use well-defined interfaces, promote portability and reuse of hardware and software components, reduce vendor lock-in, and facilitate competition, rapid technology insertion, and lifecycle affordability.

Autonomous capabilities may involve people, platforms, sensors, networks, software agents, robotic systems, and decision-support tools working together. The Army is interested in technologies that improve the ability to command, control, coordinate, understand, and sustain autonomous systems while accounting for changing levels of human supervision, communications availability, computing capacity, energy availability, and logistical support.

This topic is intended to support market research for the Army's PME Mission Autonomy objectives, including technologies that may contribute to:

- Assured command and control of autonomous and semi-autonomous systems;
- Advanced networks for autonomy, including secure, resilient, interoperable, and distributed communications;
- Advances in edge computing and distributed processing for autonomy;
- Key enablers for scaling autonomy, including integration, orchestration, sustainment, testing, verification, and human-machine teaming;
- Leap-ahead autonomous capabilities that provide significant improvements in operational effectiveness, adaptability, resilience, or affordability;
- MOSA-aligned architectures, interfaces, software components, and integration approaches that enable interoperability and rapid capability insertion;
- Improved situational awareness;
- Advanced and distributed combat power;
- Sustainable mass of autonomous systems through scalable, affordable, maintainable, and adaptable designs; and
- Tailorable autonomy for different users, missions, systems, platforms, and environments.

Topic 2: Artificial Intelligence and Machine Learning

The Army is seeking novel artificial intelligence and machine learning technologies that may improve the speed, quality, efficiency, accuracy, resilience, or scale of human and machine decision-making.

Artificial intelligence and machine learning are rapidly advancing across commercial, scientific, industrial, and public-sector applications. The Army is interested in understanding how these technologies may be applied to a broad range of challenges, including perception, prediction, planning, optimization, automation, cybersecurity, language, data analysis, human-machine interaction, and operational support.

This topic is intentionally open to a broad range of AI and ML technologies, architectures, applications, and business models. Solutions may be designed for defense, commercial, industrial, scientific, or other markets.

Areas of Interest

Areas of interest include, **but are not limited to**:

- Generative artificial intelligence and large or small language models;
- Multimodal AI involving text, imagery, video, audio, geospatial information, sensor data, or other data types;
- Computer vision, object detection, classification, recognition, tracking, and scene understanding;
- Natural-language processing, speech recognition, translation, summarization, and conversational interfaces;
- Predictive analytics, forecasting, anomaly detection, and pattern recognition;
- AI-enabled planning, optimization, scheduling, and resource allocation;
- Machine learning for robotics, navigation, autonomy, and control;
- AI-enabled data fusion and decision support; and
- Edge AI and resource-efficient inference.

Topic 3: Robotics, Sensors, and the Internet of Things

The Army is seeking novel technologies involving robotics, sensors, connected devices, and Internet of Things capabilities that improve the ability to perceive, monitor, interact with, navigate, manage, or respond to the physical world.

Robotic systems and connected devices are increasingly used across commercial, industrial, scientific, public safety, and consumer applications. The Army is interested in technologies that may provide new capabilities or improve the affordability, efficiency, reliability, adaptability, safety, or scalability of these systems.

This topic is open to a broad range of robotic systems, autonomous platforms, sensors, components, connected devices, networks, control systems, data platforms, and supporting technologies.

Areas of Interest

Areas of interest include, **but are not limited to**:

- Ground, aerial, maritime, space, and indoor robotic systems;
- Autonomous and remotely operated vehicles;
- Collaborative robots and human-robot interaction;
- Robotic manipulation, mobility, navigation, inspection, and task execution;
- Swarm robotics and coordination of multiple robotic systems;
- Robotic systems for logistics, transportation, manufacturing, maintenance, construction, agriculture, healthcare, or infrastructure;
- Miniaturized, low-power, multifunctional, or distributed sensors;

- Multimodal sensing using visual, infrared, acoustic, seismic, electromagnetic, radio-frequency, chemical, biological, environmental, or other data;
- Advanced signal processing, perception, detection, classification, tracking, and identification; and
- Passive sensing and low-signature sensing technologies.