



SCIENCE AND TECHNOLOGY ORGANIZATION
NATO MODELLING & SIMULATION GROUP
SENSORS & ELECTRONICS TECHNOLOGY PANEL



**NATO MODELLING & SIMULATION GROUP (NMSG)
&
SENSORS & ELECTRONICS TECHNOLOGY (SET) PANEL**

CALL FOR PAPERS

for the MSG-SET-RSM 183 Specialists' Meeting on

DRONE DETECTABILITY: MODELLING THE RELEVANT SIGNATURE

**to be held in
Prague, Czech Republic
21-22 October 2020**



DEADLINE FOR RECEIPT OF ABSTRACTS:

29th February 2020

This event is UNCLASSIFIED, open to participants from NATO Nations, EOP Nations, and Austria, Ireland, Israel, New Zealand, Singapore, and Switzerland



The NATO Science and Technology Organization

Science & Technology (S&T) in the NATO context is defined as the selective and rigorous generation and application of state-of-the-art, validated knowledge for defence and security purposes. S&T activities embrace scientific research, technology development, transition, application and field-testing, experimentation and a range of related scientific activities that include systems engineering, operational research and analysis, synthesis, integration and validation of knowledge derived through the scientific method.

In NATO, S&T is addressed using different business models, namely a collaborative business model where NATO provides a forum where NATO Nations and partner Nations elect to use their national resources to define, conduct and promote cooperative research and information exchange, and secondly an in-house delivery business model where S&T activities are conducted in a NATO dedicated executive body, having its own personnel, capabilities and infrastructure.

The mission of the NATO Science & Technology Organization (STO) is to help position the Nations' and NATO's S&T investments as a strategic enabler of the knowledge and technology advantage for the defence and security posture of NATO Nations and partner Nations, by conducting and promoting S&T activities that augment and leverage the capabilities and Programmes of the Alliance, of the NATO Nations and the partner Nations, in support of NATO's objectives, and contributing to NATO's ability to enable and influence security and defence related capability development and threat mitigation in NATO Nations and partner Nations, in accordance with NATO policies.

The total spectrum of this collaborative effort is addressed by six Technical Panels who manage a wide range of scientific research activities, a Group specialising in modelling and simulation, plus a Committee dedicated to supporting the information management needs of the organization:

- AVT Applied Vehicle Technology Panel
- HFM Human Factors and Medicine Panel
- IST Information Systems Technology Panel
- NMSG NATO Modelling and Simulation Group
- SAS System Analysis and Studies Panel
- SCI Systems Concepts and Integration Panel
- SET Sensors and Electronics Technology Panel

These Panels and Groups are the power-house of the collaborative model and are made up of national representatives as well as recognised world-class scientists, engineers and information Specialists'. In addition to providing critical technical oversight, they also provide a communication link to military users and other NATO bodies.

The scientific and technological work is carried out by Technical Teams, created under one or more of these eight bodies, for specific research activities which have a defined duration. These research activities can take a variety of forms, including Task Groups, Workshops, Symposia, Specialists' Meetings, Lecture Series and Technical Courses.



TECHNICAL PROGRAMME COMMITTEE

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SCIENCE AND TECHNOLOGY ORGANIZATION
NATO MODELLING & SIMULATION GROUP
SENSORS & ELECTRONICS TECHNOLOGY PANEL



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Rationale

The proliferation of small UAS platforms (sUAS), which includes the former known as Low, Slow and Small (LSS) within the NATO UAV Class 1, flying singularly or in large formation (e.g. swarm of drones), brings with it a rapidly evolving threat for national defence and security agencies in various and challenging new scenarios. Thus, next generation defence systems must be designed to face such threats. A proper system design should start from an adequate modelling of the context and simulation of the system behaviour.

One of the most challenging aspects is the capability to model the threats, both from signature and behaviour points of view. Models will be used only for analysis and design of Counter sUAS systems, starting from simulation in a full synthetic environment.

The capabilities of detection of small UAS are generally affiliated with one or more of their attributes, which have very small radar cross sections, very low thermal signatures, are potentially camouflaged to visible cameras, low/no acoustic signature, very few metal components, automated with limited to no human control.

The ability to detect these UASs is strongly related to multiple detection technologies to be integrated or fused into a single detection/classification architecture to ensure higher probability of detection.

Specialists' Meeting Topics

The objectives of this Specialists' Meeting is to understand the requirements that have to be met by a sUAS detection system with respect to the platform characteristics that constitute the sUAS signature.

The Specialists' Meeting will be divided into four themed Sessions as described below:

1) Current Detection Technologies - Experiences and Challenges with Modelling sUAS Signatures

Countering small Unmanned Aerial Systems is not a new challenge and detection solutions are already available on the defence market. Experiences from the development of these systems should give an insight into the complexity of sUAS characteristics and the challenges arising when defining the relevant signatures of these systems to enable reliable detection methods.

2) Recent Developments and Future Threats – Anticipated Challenges for Modelling sUAS Signatures

Technology is developing rapidly, in many cases, faster than the defence industry or NATO can react. Therefore, traditional signatures may be inappropriate to support detection of future sUAS. Furthermore, new technologies such as the fifth generation cellular networks, may allow for concealing the signature of electromagnetic emissions of the Command and Control link inside the network.

3) Modelling the Relevant Signatures for 'Traditional' Detection Methods

We can assume that detection methods utilizing 'traditional' signatures such as, e.g., radar, EO/IR, or acoustics will still be relevant in the future. UAS, no matter how small, will still have to obey the laws of physics and emit traceable signatures in the electromagnetic spectrum. Therefore, it is important to identify those parts of the spectrum (EM, RF, Acoustic, Thermal, etc) where sUAS provide their most prominent signatures.

4) New Approaches for Modelling the Relevant Signatures to enable Future Detection Methods

Currently fielded detection methods for sUAS may reach their limits if new technologies are applied. Future sUAS may be even smaller, faster and less visible than today. Autonomy and Artificial Intelligence may significantly reduce or eliminate active transmissions from and to the air vehicle. Hence, signatures of sUAS may be more difficult to track and even incapable on their own to reliably

identify the threat. New approaches or a combination of already established approaches may provide an answer to this challenge.

This Specialists' Meeting should facilitate the information exchange on sUAS signature characterisation and related modelling through presentations on most of the above-mentioned topics from research and innovation points of view, including theoretical studies, and trials and experimentation, based on research combined with modelling activities.

The result is to improve the current studies on the subject and suggest areas for further NATO research activities as well as reinforce the links with military bodies in NATO in order to improve the capability to meet the identified requirements.

The main objective proposed is related to the capability that modelling will provide for testing and evaluating. The new Counter sUAS systems should support Nations and NATO embarking on a series of Programmes for developing and deploying appropriate defensive measures, in terms of detection, classification, tracking and neutralisation of current and future sUAS threats in a cost effective manner.

Prominent Leaders, contributors and representatives from the military, government, academia, and industry are expected to attend the Meeting.

CALL FOR PAPERS

The Programme Committee invites interested Specialists' to submit an **extended Abstract** (2 to 4 pages) addressing one or more the above-mentioned topics.

The selected Authors will be invited to submit a **full Paper** (8 to 12 pages).

Please send an electronic copy of the extended Abstract together with the completed Questionnaire (attached) to the Technical Programme Committee Co-Chairs (paolo.proietti@leonardocompany.com) and (jan.farlik@unob.cz) with a courtesy copy to the MSCO & SET Panel Assistants (renata.japertaite@cs0.nato.int and illeana.ganz@cs0.nato.int) by the deadline of **29 February 2020**.

The extended Abstract must include the following information, at the beginning:

- **MSG-SET-183 Specialists' Meeting on "Drone Detectability: Modelling the Relevant Signature"**
- **Title of the Paper**
- **Name of the Lead Author, followed by the names of the Co-Author(s) if any, and then Company/Affiliation, complete mailing addresses, telephone, fax and e-mail addresses**
- **Note: The proceedings will be Unclassified/Unlimited (Public Release).**
- Please use the Details of Authors Form (ANNEX A). Submissions without name(s) and complete address of Author(s), or incompletely filled in Details of Authors Forms will not be considered.
- **The Abstract must also contain a declaration from the Author(s) that there are no restrictions regarding presentation neither during the event nor of the publication of the paper (as described in the Abstract) in the Meeting Proceedings.**
- **It is the responsibility of each contributor to fulfil the publication release requirements of his/her organisation/company and country and to obtain the mandatory Clearance of Abstracts, papers and presentations. An official Clearance (Form 13) is mandatory in the United Kingdom and United States. Please contact your national PoC or the MSCO/SETs Assistant for further information and specific procedures.**



- **US Authors and non-US citizens affiliated with a US organization must comply with US procedures.**

It is the responsibility of each contributor to fulfil the publication release and Clearance requirements of his/her organization/company and country to obtain a **Clearance of Papers** as needed. An official Clearance is mandatory in the United States (Form 13: attached at the end of this document) and there may also be a requirement in other countries to obtain Clearance for Unclassified Papers. For further information, Authors may contact any of the Programme Committee Members listed in this document or their National STO Coordinator. Please allow sufficient time for the Clearance to be issued before the deadline. In this case, the NATO classification of the Papers is "APPROVED FOR PUBLIC RELEASE".

The Programme Committee will select a number of Papers that are considered suitable for presentation at the Specialists' Meeting. Authors will be notified by the date indicated in the schedule whether or not their Papers are selected. Authors of selected Papers will also be provided with information in the Instructions for Authors, which contains detailed instructions for the final formatting, presentation, transmission, etc. of full Papers.

The time allowed for each presenter of a Paper is approximately 20 minutes. Equipment will be available for PowerPoint presentations. All Papers accepted for presentation at the Specialists' Meeting will appear in the Meeting Proceedings and be published electronically.

Please note that the Authors of Papers selected for presentation will not be financially supported by this Organization. Authors are responsible for their hotel and travel.

IMPORTANT DATES

29 FEBRUARY 2020

- **Abstract submission deadline**

30 APRIL 2020

- **Acceptance notification to the Authors**
- Authors to receive "Instructions to Authors" package from CSO
- Authors to start national procedure to obtain the Presentation/Publication Release and Clearance Certificate (Form 13) (*this document will be included with the "Instructions to Authors" package*)

30 JUNE 2020

- **Submission of full Paper** (electronic by e-mail (Word & PDF)
- Submission of Presentation/Publication Release and Clearance Certificate (Form 13) to CSO

30 SEPTEMBER 2020

- Submission of the Power Point Presentation

21-22 OCTOBER 2020

- **Specialists' Meeting Oral Presentation**

PAPERS and PRESENTATIONS

Approximately 15/20 full Papers will be presented at the Plenary Sessions, each Author is allocated 25 minutes, with usually twenty minutes for the presentation of the Paper and five minutes for discussion. All presented Papers will be published. They should be written and presented in English.

AGENDA

The Specialists' Meeting will be organised in accordance with the following tentative Agenda depending on the number of Papers accepted.

	DAY 1		DAY 2
9:00-12:30	Session 1	9:00-12:30	Session 3
10min	Introduction	10min	Introduction
20+5min	Presentation 1	20+5min	Presentation 1
20+5min	Presentation 2	20+5min	Presentation 2
20+5min	Presentation 3	20+5min	Presentation 3
30min	<i>Coffee Break</i>	30min	<i>Coffee Break</i>
20+5min	Presentation 4	20+5min	Presentation 4
20+5min	Presentation 5	20+5min	Presentation 5
20+5min	Presentation 6	20+5min	Presentation 6
30min	Session Discussion	30min	Session Discussion
12:30-14:00	<i>Lunch</i>	12:30-14:00	<i>Lunch</i>
14:00-17:30	Session 2	14:00-17:30	Session 4
10min	Introduction	10min	Introduction
20+5min	Presentation 1	20+5min	Presentation 1
20+5min	Presentation 2	20+5min	Presentation 2
20+5min	Presentation 3	20+5min	Presentation 3
30min	<i>Coffee Break</i>	30min	<i>Coffee Break</i>
20+5min	Presentation 4	20+5min	Presentation 4
20+5min	Presentation 5	20+5min	Presentation 5
20+5min	Presentation 6	20+5min	Presentation 6
30min	Session Discussion	30min	Session Discussion
			Closing Remarks

GENERAL INFORMATION

Classification

All material and discussion in this Specialists' Meeting will be UNCLASSIFIED, Releasable to Public.

In the case of CLASSIFIED information to be presented, a dedicated **Closed Session** will be organised.

Participation and Enrolment

You are welcome to attend and participate in the Meeting, even if you do not present a Paper. However, it is mandatory for all individuals to enrol online via this link: <https://events.sto.nato.int> Website enrolment will open approximately two months before the date of the Specialists' Meeting. A General Information Package with hotel and Meeting Site information will be available for downloading upon validation of your enrolment.

Language

Presentations and discussions will be in English.

Specialists' Meeting Site and Accommodations

The Meeting will be held at the PVA, Prague, Czech Republic, within the Future Forces Forum 2020.

There is no Meeting registration fee.



Attendees and accompanying individuals are responsible for their accommodation arrangements and any travel expenses.

Any questions on the technical aspects of the scientific Programme or the participation process should be addressed to the Specialists' Meeting Co-Chairs.

PUBLICATION OF MEETING PROCEEDINGS

Complete instructions will be sent by the SET Panel Assistant to the Lead Authors of the selected Papers who will be providing a full Paper. The Instruction to Authors package will provide in detail all requirements and deadlines for the preparation of the final manuscripts and presentations.

All Authors must provide the CSO with a final version of their Paper (PDF and source document in Word), in accordance with the aforementioned schedule, together with the Presentation/Publication Release and Clearance Certificate (Form 13). Please keep in mind that all Papers must be written and presented in English.

A week before the event, the CSO will pre-release the Papers on the STO website under the "Pre-Released" section of the "Reports" pages and they will remain as such until officially published. The final publication (Meeting Proceedings) will be at a URL address which will be provided at a later date to all validated participants enrolled on the website. This official reference of the Meeting Proceedings of this Specialists' Meeting will include the presentations, Papers, posters (if any), demonstration videos (if any), an Executive Summary, Abstract and the TER (Technical Evaluation Report). Please note that the CSO reserves the right to print in the Proceedings any Paper or material presented at the Meeting.

Any questions on the technical aspects of the scientific Programme, or the participation process should be addressed to the Specialists' Meeting Co-Chairs.

Questions on the administrative aspects or requests for further information on STO activities should be addressed to the NMSG and SET Panel Offices.

SECURITY LEVEL AND CLEARANCE FOR PRESENTATIONS AND PAPERS

This Meeting is NATO UNCLASSIFIED. However, it is the responsibility of each contributor to fulfil the publication release and Clearance requirements of his/her organization/company and country to obtain Clearance of Abstracts and Papers as needed. An official Clearance is mandatory in the United States and there may also be a requirement in other countries to obtain Clearance for Unclassified as well as Classified Papers. For further information, Authors should contact the appropriate Programme Committee Member listed in this document or their National STO Coordinator.

Thank you for your contributions which are very much appreciated by the NATO community.



ATTACHMENT 1

SPECIAL NOTICE FOR US AUTHORS AND NON-US CITIZENS AFFILIATED WITH US ORGANIZATIONS

Abstracts of Papers from the USA must be sent **ONLY** to the following POC:

NATO STO US National Coordinator

OASD (R&E)/International Technology Programs

4800 Mark Center Drive, Suite 17D08

Alexandria, VA 22350-3600

E-mail: osd.pentagon.ousd-atl.mbx.usnatcor@mail.mil

Tel: +1 571 372 6538 / 6539

Fax: +1 571 372 6548

PLEASE NOTE THE FOLLOWING:

All US Authors must submit one electronic copy to this POC by **29 January 2020**

All US Authors must include the following statement in a covering letter:

- The work described in this Paper is cleared for presentation to NATO audiences (i.e., Approved for public release)
- The Paper is technically correct
- If work is sponsored by a government agency, identify the organization and attest that the organization is aware of submission
- The Paper is Approved for Public Release and
- The Paper does not violate any proprietary rights.

NOTE:

1. Only complete packages (Paper plus all items listed above) will be accepted by the US POC
2. After review and approval, the US POC will forward all US Papers with the Details of Authors Form to the Panel Assistant. All US Papers must be received directly from the US POC US Papers will not be accepted directly from Authors.
3. In the event there are any questions or concerns with these requirements, US Authors are encouraged to contact the US POC as early as possible. Delays in Meeting POC deadlines will impact the timely submission of your Paper.

ANNEX A

QUESTIONNAIRE

For consideration of a Paper submitted for the NMSG and SET Panel Specialists' Meeting on:

DRONE DETECTABILITY: MODELLING THE RELEVANT SIGNATURE

(MSG-SET-RSM 183)

Prague, Czech Republic, 21–22 October 2020

Please attach a copy of this Questionnaire to each copy of an Abstract.

For each Abstract, Authors should be listed in the order they will appear on the Programme. Unless specified otherwise, the first Author will be presumed to be the LEAD AUTHOR having the major responsibility regarding the content of the Paper.

TITLE OF PAPER:

What is the Nature of the work reported in the Paper? (Indicate with X)

Basic Research	
Applied Research	
Concept Study or Analysis	
Experimentation	
System Development	
System Trial	
Other	

Specialists' Meeting Topic Area Addressed by Paper (Indicate with X)

1) Current Detection Technologies	
2) Recent Developments and Future Threats	
3) Modelling the Relevant Signatures for 'Traditional' Detection Methods	
4) New Approaches for Modelling the Relevant Signatures	
5) Other	



DETAILS OF AUTHORS

AUTHORS:

Lead Author (*the Author having the major responsibility regarding the content of the Paper and the contact person for the correspondence with the MSG-SET-183 Programme Committee and MSG and SET Panel Offices*)

Full Name (Title, First, Last)	
Organisation	
Business Mailing Address	
Email	
Telephone	
Nationality	

Co-Authors: (*Each Co-Author should be listed in the order they will appear on the Programme*)

Full Name (Title, First, Last)	
Organisation	
Business Mailing Address	
Email	
Telephone	
Nationality	

Full Name (Title, First, Last)	
Organisation	
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Telephone	
Nationality	

(Add as necessary)



PRESENTATION/PUBLICATION RELEASE and CLEARANCE CERTIFICATE

FORM 13(E)

All authors, either from contributing nations or directly employed by NATO, must obtain all necessary Clearances before submitting their manuscript and any associated Meeting presentation to the Science and Technology Organization (STO), through the Collaboration Support Office (CSO). These Clearances may relate to security, proprietary or industrial rights and/or copyright, and are required for all contributions to the STO. National requirements for Clearance may vary. Note that such Clearances merely provide the STO with the right to publish and distribute the manuscript and associated presentations; they do not constitute a transfer of copyright, as this will always remain with the originating author.

It is the responsibility of the author to comply with relevant national regulations and to ensure that an appropriate national authority signs this form, where necessary. Specific rules apply to U.S. authors and non-U.S. authors affiliated with U.S. organizations--see Section 4b.

1. DETAILS OF MANUSCRIPT

Supporting Panel or Group (Circle one): AVT, HFM, IMC, IST, NMSG, SAS, SCI, SET, Other:

Activity Reference Number: STO-_____ - _____ - _____.

Type (Circle one): Task Group, Symposium, Specialists' Meeting, Lecture Series, Other:

Title:

.....

Full Names of ALL Authors:

.....

Lead Author E-mail:..... Telephone Number:

2. PROPRIETARY/COPYRIGHT RELEASE

I certify that there are no proprietary or copyright objections to the above-named manuscript and any associated Meeting presentation being (check or tick one or both boxes, as appropriate):

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Lead Author Name: Date:

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3. CLASSIFICATION LEVEL

(to be completed by the Lead author or the security authority, as required by national regulations)

The NATO classification level of this manuscript is (check or tick ONE box ONLY):

APPROVED FOR PUBLIC RELEASE

NATO UNCLASSIFIED

NATO RESTRICTED

NATO CONFIDENTIAL

NATO SECRET

In addition to the above, this manuscript is (check all that apply):

Releasable to Partner for Peace Nations (PfP)

Releasable to the following non-NATO countries:

Releasable to Mediterranean Dialogue (MD) Nations



4. SECURITY CLEARANCE

4a. All Participants (including NATO Employees) except U.S. and U.S.-Affiliated Authors

If a national security Clearance is required, the appropriate national authority must sign and stamp this section. If, however, Clearance by a national authority is NOT required, the AUTHOR must strike through this section and initial it.

I certify that the classification of the above-named manuscript and any associated Meeting presentation is correct AND that it is cleared for (check or tick one or both boxes, as appropriate):

Published by the STO Presented at an STO Meeting

Signature: STAMP:
 (of appropriate authority)

Name: Date:

4b. United States Authors and Non-U.S. Authors Affiliated with U.S. Organizations

United States contributors should initiate their organization’s and their sponsor’s (if government-funded) internal review and release process through their local public affairs or foreign disclosure office or its equivalent early enough to meet the required deadlines identified in the author’s package. Upon completion of this Clearance process, forward a copy of all internal documentation along with the front, reverse side of this form (CSO Form 13) **completed by you through Section 3** and a copy of the manuscript and presentation materials (only if non-classified) to:

NATO STO U.S. National Coordinator
 OASD(R&E) / International Technology Programs
 4800 Mark Center Drive, Suite 17D08
 Alexandria, VA 22350-3600
 Tel: +1 (571) 372-6538 / 6539
 Fax: +1 (571) 372-6548
 Email: osd.pentagon.ousd-atl.mbx.usnatcor@mail.mil

For Packages being sent by commercial postal carriers (i.e. FedEx, DHL, UPS) use the following:

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 OASD(R&E)/International Technology Programs
 4800 Mark Center Drive
 Alexandria, VA 22311

The internal documentation from your organization’s local public affairs or foreign disclosure office or its equivalent should clearly show the title of the paper or presentation, level of Clearance (e.g. “Approved for Public Release”) and the name, title and organization of the approval authority. Your package should arrive **not later than three weeks prior** to the submission deadline given in the author’s package for this form (CSO Form 13). **For classified documents contact the office above for instructions.**

Once satisfied that proper Clearance has been achieved, the U.S. National Coordinator will sign below and send a copy to the CSO. **Any questions about this process should be directed to the U.S. National Coordinator.**

I certify that the classification of the above-named manuscript and any associated Meeting presentation is correct AND that it is cleared for (check or tick one or both boxes, as appropriate):

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Signature: STAMP:
 (of appropriate authority)

Name: Date:

PLEASE RETURN THIS FORM TO THE RELEVANT STO PANEL OFFICE AT:

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(From USA)
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