

## Call for Papers and Challenge



### International Conference on Military Communications and Information Systems **ICMCIS 2020**

*ICT challenges for military operations in contested urban environment*  
Amsterdam, the Netherlands, 12<sup>th</sup> – 13<sup>th</sup> May 2020

#### ICT challenges for military operations in contested urban environments

Information is crucial for military operations. Situational awareness or even understanding leads to better decisions and actions, which lead to successful missions. However, information provisioning in military operations is always challenging. Civil communications systems are either not available, not trusted or subject to hostile activities (jamming, cyber). This results in a disadvantaged infrastructure with limited or interrupted resources such as bandwidth, processing and storage capacity.

Military operations in urban environment are amongst the most dangerous and challenging. Whilst protecting the civilian population, opposing forces are difficult to locate, identify and track. Communications are hampered by structures and manmade noise. On the other hand a (smart) city provides multiple means that can be exploited by the military, such as: use of civil infrastructures for communication, use of social media for information and communication, use of present sensors (Internet of Things).

#### AI Challenge

In addition to regular papers, for 2020, ICMCIS is introducing a challenge on disinformation detection in social media. Identifiers of tweets (Twitter posts) that are linked to misinformation and trusted news articles will be made available via Kaggle. Participants are challenged to develop misinformation detection algorithms that can automatically classify these tweets as related to misinformation or trusted information, focusing on both (self-derived) linguistic and network features that indicate misinformation. Further details are available on the ICMCIS.eu web site.



**ICMCIS** is an international conference with a 20-year tradition.

The intention of the conference is to create a forum for useful contacts and exchange of ideas on development as well as implementation of advanced information and communications technologies and services into military systems. The conference gives a unique opportunity to discuss different points of view and share experience with colleagues from European and NATO organizations involved in CIS.

This year the theme of the conference is “**ICT challenges for military operations in contested urban environment**”. Authors are invited to submit papers addressing challenges related to this theme, or other topics important Military CIS topics.

**For the first time a challenge on AI will be part of ICMCIS in 2020.**

**Since 2012 the conference has been supported by the IEEE.** It is also intended to obtain this support for ICMCIS 2020, with all papers being published in IEEE eXplore. **Papers from previous conferences have also been indexed in Web of Science Core Collection.**

#### Technical Programme Committee

##### Chair

Antoine SMALLEGANGE, TNO

##### Vice-chair

Michael STREET  
NATO Communications and Information Agency

#### Steering Committee

##### Chair

Peter LENK,  
NATO Communications and Information Agency

##### Vice-Chairs

Loren DIEDRICHSEN, USA  
Jürgen GROSCHE, Germany  
Dag WILHELMSEN, Norway

#### Important Dates

Paper submission **13 January 2020**  
Acceptance notification **06 March 2020**  
Camera ready copy **10 April 2020**

#### Point of Contact

Cateljine Rauch, TNO  
phone +316 109 688 35  
e-mail: catelijne.rauch@tno.nl

#### Supported by

#### Organized by



NATO Communications and Information Agency



NATO Science & Technology Organization



National Research Institute, Poland



National Research Institute, the Netherlands



Ministerie van Defensie  
Netherlands Ministry of Defence

[www.icmcis.eu](http://www.icmcis.eu)