

## CyCon

The annual International Conference on Cyber Conflict addresses the most relevant issues concerning the cyber defence community

In its 12 years of existence, CyCon has become a community-building event for cyber security professionals, adhering to the highest standards of academic research

The International Conference on Cyber Conflict, CyCon, has entered its second decade. Throughout the years, CyCon has established itself as a prominent multidisciplinary conference, introducing keynote and panels focusing on the technical, legal, policy, strategy and military perspectives of cyber defence and security. This is undoubtedly thanks to the amount of high-quality original academic research presented at the conference.

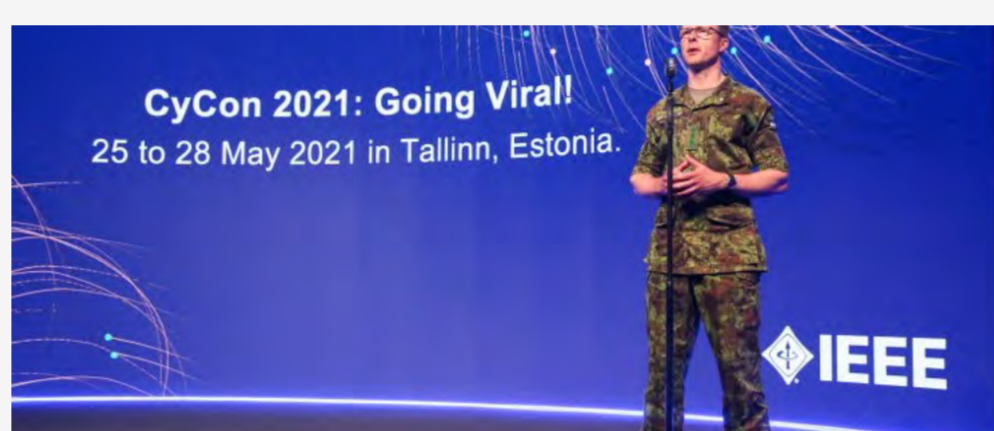
In 2020, despite having to cancel the physical conference, the Academic Review Committee selected 19 articles to be presented at a virtual book launch and published in the proceedings.



Each year, more than 600 decision-makers, opinion-leaders, law and technology experts from the governments, military, academia and industry of nearly 50 countries meet at CyCon to address current cyber security challenges in an interdisciplinary manner. Over two and a half days, experts approach the conference's key themes in keynote speeches, plenaries, focused sessions and breakout discussions. CyCon's workshops allow for in-depth discussions on specific topics related to technology and malware development, education and training issues, legal aspects, etc., or provide practical hands-on training.

In 2019 the event focused on the theme of Silent Battle. Keynote speakers included H.E. Kersti Kaljulaid, the President of Estonia, Dr. Antonio Mistrulli, NATO Assistant Secretary General on Emerging Security Challenges, Adm Manfred Nelson, NATO's Deputy Supreme Allied Commander Transformation, Mr Kentaro Sonoura, a Special Advisor to the Prime Minister of Japan, Professor Alberto Sangiovanni-Vincentelli, the Butner Chair at the Department of EECSS, Tom Bart of Microsoft. Highlights of the CyCon 2019 included the official declaration of Estonia's position on the applicability of international law in cyberspace and cyber operations in the opening address by Estonian President Kersti Kaljulaid. One of the practical deliverables of the CyCon was the Interactive Cyber Law Toolkit, a web-based resource for legal professionals and students, available online free of charge. CyCon Cyber Commander's panel presented the cyber commanders of Germany, Italy and the United States European Command and Admiral (ret) Michael Rogers discussing military elements in cyber. Information operations and cyber-enabled information operations were constantly brought up as two sides of the influence operations taking place in cyberspace.

### Upcoming event



#### CyCon 2021: Going Viral

25 – 28 May 2021

CyCon 2021's central theme is Going Viral. It alludes to the implications of human crises (such as the 2020 pandemic) for cybersecurity and cyberspace. At a more abstract level, it aims to encourage discussions on the impact of fast proliferation and high unpredictability in cyberspace. Whether they concern old threats such as malware or new trends affecting cyberspace such as information campaigns, these phenomena have major real-life implications. We need to acknowledge those, study them and strive to use them for our common benefit.

[CyCon 2021 Call for Papers](#)

### Past events

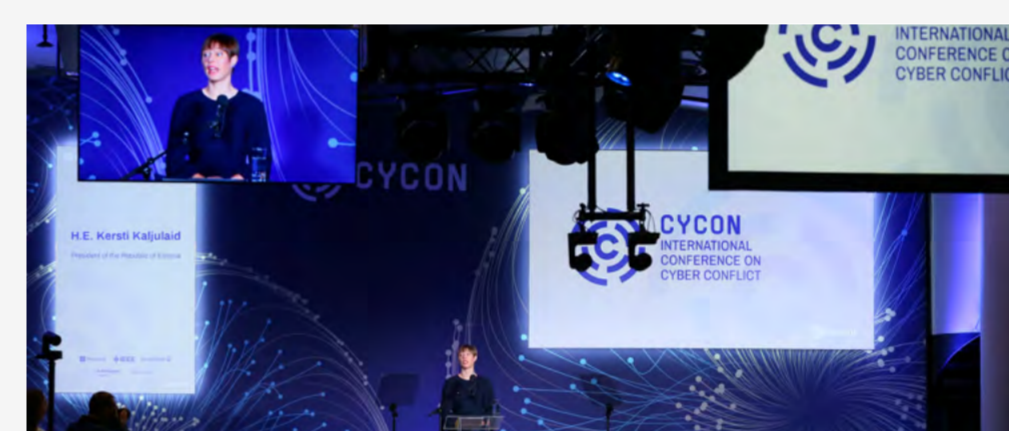


#### CyCon 2020: Virtual Book Launch

26 – 29 May 2020

For the first time in CyCon's history, the 600-participant cyber conference hosted in Tallinn, Estonia, could not take place. In order to ensure that the cyber experts, it had to be cancelled due to the COVID-19 pandemic. CyCon has traditionally been blessed with a large volume of high quality academic papers. In order to show appreciation towards the work of our authors, CCDCOE is holding a virtual presentation of CyCon proceedings despite having no physical conference accompanying it. The proceedings of the 12th annual International Conference on Cyber Conflict (CyCon) will be presented by their authors at a virtual book launch taking place on 26th – 29th of May, 4PM-6PM EEST (Eastern European Summer Time). The event is available to the public and registration is open as of now. The researchers contributing to '20/20 Vision: The Next Decade' book will explore how cyberspace and cyber conflict will evolve in the 2020s. What are the emerging technologies, policies and legal frameworks that will shape the future of societal and personal levels? How can we ensure that the cyberspace, continuously open to technological innovation, will be more transparent, predictable and safe, still reflecting our values? The book is a collection of papers commissioned by CCDCOE through a call for papers, to be presented at the CyCon 2020 conference on 26-29 May 2020 in Tallinn. Reflecting the three traditional CyCon tracks – technical, strategic and legal – 19 papers bring on new ideas and reinterpret traditional concepts. The topics range from artificial intelligence, autonomous weapons or cloud services through energy distribution networks and security of industrial control systems (ICS) to responses available to states under international law.

[Proceedings](#) [Virtual Book Launch](#) [Gallery](#)



#### CyCon 2019: Silent Battle

29 – 31 May 2019

CyCon 2019 brought to Tallinn more than 600 key experts and decision-makers from the global cyber defence community. The 11th CyCon evolved around the main theme of "Silent Battle" for a techie it was about vulnerabilities, exploits and patches; for a policy advisor, about detection and attribution; for a lawyer, about responsibility; and for a military, about situational awareness.

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#### CyCon 2018: Maximising Effects

20 – 1 June 2018

The 10th anniversary event focused on the theme of maximising effects in the cyber domain. CyCon 2018 brought to Tallinn more than 700 cyber experts from more than 40 nations. In partnership with Munich Security Conference (MSC) CCDCOE also hosted the Cyber Security Summit (CSS) in Tallinn the same week.

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#### CyCon 2017: Defending the Core

2 – 3 June 2017

The 9th International Conference on Cyber Conflict under the theme of "Defending the Core" recognized that digitalisation has both transformed and disrupted our way of life, bringing new security risks to technological dependencies together with its innumerable social and economic benefits.

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#### CyCon 2016: Cyber Power

31 – 3 June 2016

The 8th International Conference on Cyber Conflict focused on 'cyber power' as one of the core elements of relations between different stakeholders and will discuss how the traditional concept of 'power' applies to cyberspace.

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#### CyCon 2015: Architectures in Cyberspace

26 – 29 May 2015

The 7th International Conference on Cyber Conflict focused on the construction of the Internet and its potential future development. This year's topic asked what cyberspace is and will be in the coming years as well as what are its characteristics relevant for cyber security.

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#### CyCon 2014: Active Cyber Defence

3 – 8 June 2014

The 6th International Conference on Cyber Conflict brought together more than 450 people to discuss active cyber defence. The conference ran in two parallel tracks with one concentrating on the technical issues and another on the law and strategy questions.

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#### CyCon 2013: Cyber Conflict

4 – 7 June 2013

The 5th CyCon concentrated on technical, strategic and legal implications of using automatic methods in cyber conflicts.

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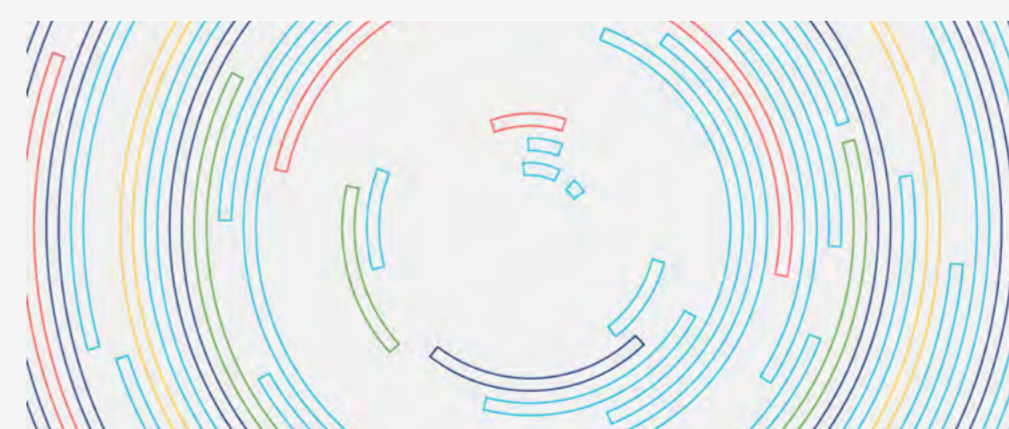


#### CyCon 2012

6 – 8 June 2012

The 4th conference focused on military and paramilitary activities in cyberspace. The topic was explored from strategic, conceptual, political, legal and technical perspectives within two parallel tracks, the Law & Policy Track and the Technical Track. Strategic Breakout Session and multiple pre-conference workshops completed the comprehensive programme offered.

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#### CyCon 2011: ICCO

7 – 10 June 2011

3rd International Conference on Cyber Conflict focused on the defensive and offensive aspects of cyber forces, combining different views on cyber defence and operations in current threat environments. More than 380 experts gathered in Tallinn, Estonia, to participate in the annual event. Presentations treated the legal aspects of cyber conflict as well as the technical ones, including recent issues such as Stuxnet and Ilobs. The conference concluded with a presentation of the NATO cyber defence policy that was endorsed by the NATO defence ministers.

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#### CyCon 2010: Cyber Conflict

15 – 18 June 2010

The conference brought together more than 300 computer security specialists from 39 countries. Experts from government, private sector and the academia discussed cyber security in three parallel conference tracks: strategy, law and technical. Keynote speakers included renowned cryptographer Bruce Schneier and former cyber security adviser to the US president, Melissa Hathaway.

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#### Legal & Policy Conference

9 – 10 September 2009

Centre's second conference focused on the legal and policy aspects of cyber conflict, inviting experts to discuss the frameworks for international cyber security. It was aimed at promoting closer collaboration among the international community of leaders and experts; sharing current initiatives and best practices of cyber conflict management; developing a common understanding of the multidisciplinary and layered approach to cyber conflict management and initiating an international dialogue.

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#### Conference on Cyber Warfare

16 – 19 June 2008

The Conference on Cyber Warfare covered the emerging field of cyber warfare in theory and in practice, from both strategic and tactical perspectives. Luncheonies such as Mikko Hyppönen, James Lewis, Jose Nazario, Felix Leder, Tilman Werner, Roel of Tammingh, Amit Yoran, and Billy Rios highlighted the program among other key experts.

[Proceedings](#)