

**3rd International Conference on Cyber Conflict 2011 (ICCC)
June 7-10, 2011 Tallinn - Estonia • Technically Co-Sponsored by IEEE**

CALL FOR PAPERS

The International Conference on Cyber Conflict is the CCD COE's annual event that brings together strategic, technical and legal experts to discuss current key aspects of cyber conflicts (see <http://www.ccdcoe.org/ICCC>).

In 2011 the conference will focus on combination of defensive and offensive aspects of Cyber Forces and will combine different views on cyber defence and operations in the current and envisaged threat environments. This shall not be limited to military perspective. Legal, strategic and technical submissions are welcome on equal grounds.

The conference program will also feature a number of keynote lectures to be delivered by distinguished world-class experts. The conference will articulate itself in two parallel tracks:

1. Concepts, Strategy & Law, 2. Technical Challenges & Solutions

Topics

Relevant topics for both tracks include, but are not limited to:

Creation and Management of Cyber Forces

- Country case studies: theory and practice
- Training and exercises for cyber operations
- Human Resources management (selection, recruitment, evaluation, training, retention)
- Role of volunteers, mercenaries, private sector
- Organisational aspects: command & control structures, coalitions and alliances
- Doctrine of using cyber power, deterrence

Cyber Battlefield Intelligence

- Tactical and Operational issues: target selection, validation and prioritisation, collateral damage, risk management, traffic flow analysis
- Attribution and anonymity
- Information gathering from the underground hacker community
- Situational awareness and management in cyberspace
- Heuristic and early warning notification, event identification, data correlation and ranking
- Data exfiltration: prevention, detection and mitigation

The Nature of Cyber Weapons

- Definition, development and use of cyber weapons and defence tools
- Strategic use of botnets and malware
- Zero-day attacks and how to cope with them
- Discovering and mitigating vulnerabilities
- Automated use of cyber weapons or defense means and the liability for their effects

Advanced Technologies

- Cooperative Cyber Defence on a technical level
- Cyber attack and defence modelling and simulation
- Automated cyber attack and defence systems
- Artificial Intelligence in cyber attack and defence
- Secure and robust system implementations (network redundancy and resiliency)
- Visualisation for situation awareness

Important dates:

The deadline for submission of papers is 10 January, 2010

Submission of papers and publication

Authors are invited to submit original unpublished papers (up to 6000 words). Submitted papers will be subject to a double-blind review process. All accepted papers will be published in the printed conference proceedings with ISBN reference and made digitally available through IEEE Xplore. The proceedings will be indexed by international indexers like crossref.org and the CCD COE will apply for indexation of the papers by Thomson Reuters Conference Proceedings Citation Index. Submission details, author's guidance and others practical information will be available on our website at www.ccdcoe.org/ICCC/cfp.

Manuscripts must be uploaded electronically to www.easychair.org/conferences/?conf=iccc3
You will have to create an account for doing so.

Conference Organisers

Conference Chair:

Col. Ilmar Tamm,

Director of Cooperative Cyber Defence
Centre of Excellence (CCD COE)

Program Committee Co-chairs:

Prof. Thomas Wingfield,

George C. Marshall European Center
for Security Studies, Germany,
and

Prof. Enn Tyugu,

Cooperative Cyber Defence Centre of
Excellence and Tallinn University of
Technology / Institute of Cybernetics,
Estonia

Track Chairs:

Lt.Col. Marco de Falco

Technical Challenges & Solutions Track
and

Mr. Rain Ottis

Concepts, Strategy and Law Track

Publication Chair:

Capt. Christian Czosseck

Local Arrangement:

Mr. Raivo Terve

Publicity:

Ms. Liisa Tallinn

Treasurer:

Ms. Piret Ilves

Program Committee:

The updated list of program committee members is available on: www.ccdcoe.org/ICCC/pc

Marta Beltrán, Rey Juan Carlos University, Spain

Catharina Candolin, Finnish Defence Staff

G.W. Ray Davidson, Purdue University Calumet, USA

Sérgio Tenreiro de Magalhães, Universidade Católica, Portugal

Dorothy Denning, Naval Postgraduate School, USA

Kenneth Geers, CCD COE & NCIS, USA

Michael R. Grimaila, Air Force Institute of Technologies, USA

Gabriel Jakobson, Altusys Corp, USA

Eric Talbot Jensen, Fordham University School of Law, USA

Marieke Klaver, TNO Defence, Security and Safety, Netherlands

Pavel Laskov, University of Tübingen, Germany

Paul Leis, SEB, Estonia

Corrado Leita, Symantec, Germany

Samuel Liles, Purdue University Calumet, USA

Juan Lopez, Air Force Institute of Technologies

Peter Martini, Germany, Uni Bonn, Germany

Andrea Martorelli, Air Force, Italy

Giuseppe Mendico, Air Force, Italy

Lars Nicander, Swedish National Defence College

Julie Ryan, Georg Washington University, USA

Stefano Zanero, University of Milano, Italy

Eneken Tikki, CCD COE

Risto Vaarandi, CCD COE

Jozef Vyskoè, University of Bratislava, Slovak Republic