



Call for papers

Special session on Cyber Security (CYBERSEC 2017)

at the 3rd IEEE International Conference on Cybernetics (CYBCONF 2017)

Exeter, UK, June 21–23 2017

Conference website: <http://cse.stfx.ca/~CybConf2017>

(1) Special Session Organizers:

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(2) General description of the SS

Although awareness about necessary security appliances seems to be common and the tools used for that purpose are getting more and more advanced, the number of successful attacks targeted on computer systems is growing. They are mostly related to denial of offered services, gaining access or stealing private data, financial fraud, etc. Moreover, the evolution towards cloud computing, increasing use of social networks, mobile and peer-to-peer networking technologies that are intrinsic part of our life today, carrying many conveniences within our personal life, business and government, gives the possibility to use them as tools for cyber criminals and potential path of malware propagation. Computer systems are prone to cyber attacks even though a number of security controls are already deployed. Cyber criminals are focused on finding a way to bypass security controls and gain access into the protected network. For that reason organizations, companies, governments and institutions as well as ordinary citizens all over the world are interested in detection of all attempts of malicious actions targeted on their computer networks and single machines.

The CyberSec Special Session focuses on the diversity of the systems security developments and deployments in order to highlight the most recent challenges and report the latest research results. The session is intended to attract researchers and practitioners from academia and industry, and provides an

international discussion forum for sharing experiences and new ideas concerning emerging aspects of the systems security in different application domains.

(3) Topics of Interests

This special session calls for original papers describing the latest developments, trends, and solutions related to the issues of cyber security. Topics of interests include, but are not limited to:

- **Decision support systems for information security**
- **Risk assessment and risk management in different application domains**
- **Tools supporting security management and development**
- **Computer network security**
- **Cyber-attack detection**
- **Attack mitigation**
- **Cyber breaches scientific reports**
- **Cryptographic solutions**
- **Network security**
- **Anomaly detection**
- **Threat analysis**
- **IT security monitoring**
- **Web/mobile application security**
- **Computer forensics**

(4) Important Dates

- **Paper Submission: 23 February 2017**
- **Authors Notification: 22 April 2017**
- **Camera-Ready Paper: 15 May 2017**
- **Early Registration: 15 May 2017**
- **Conference Date: 21-23 June 2017**

(5) Program Committee

- Ryszard Antkiewicz, Military University of Technology, Poland
- Jose M. Alcaraz Calero, University of the West of Scotland, UK
- Roberto Di Pietro, University of Padova, Italy
- Sebastian Garcia, Czech Technical University in Prague, Czech Republic
- Hector Marco Gisbert, University of the West of Scotland, United Kingdom
- Damas P. Gruska, Comenius University in Bratislava, Slovakia
- Bartosz Jasiul, Military Communication Institute, Poland
- Roberto Rigolin F. Lopes, Fraunhofer Research Institute FKIE, Germany
- Marco Manso, RNC Avionics Ltd., United Kingdom
- Piotr Matyasik, AGH University of Science and Technology, Poland
- Wojciech Mazurczyk, Warsaw University of Technology, Poland
- Jacek Rak, Gdansk University of Technology, Poland
- Marcin Szpyrka, AGH University of Science and Technology, Poland
- Joanna Sliwa, Military Communication Institute, Poland
- Zbigniew Tarapata, Military University of Technology, Poland

- Qi Wang, University of the West of Scotland, United Kingdom
- Konrad Wrona, NATO Communication and Information Agency, Netherlands

(6) Submission and Publication

Authors are invited to submit original previously unpublished research papers written in English, of up to 8 pages (or 10 pages with over length charge) including figures and references using IEEE Computer Society Proceedings Manuscripts style (two columns, single-spaced, 10 fonts). Please find the manuscript templates and submission related information at the CYBCONF 2017 conference webpage. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee.

Presented papers will appear in the conference proceedings, available on IEEE Xplore and submitted to be indexed in CPCI (ISI conferences and part of Web of Science) and Engineering Index (EI). The authors of selected best papers will be invited post conference to extend their contributions for special issues of prestigious journals, such as IEEE Transactions on Cybernetics, IEEE SMC Magazine, Evolving Systems, and Peer-to-Peer Networking and Applications (PPNA).