

Norwegian Information Security Conference Report

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1 Introduction

Norwegian Information Security Conference 2018 (NISK) held between September 18-20, 2018 at Longyearbyen, Svalbard. The purpose of the conference was to present latest research in the field of information and communication technologies, and provide a bridge for collaboration between academia from different universities. Researchers from different national and international research institutes are invited to showcase their research. PhD-Candidates in field of Information security are also invited at COINS PhD-student workshop to present there on going research. All presented research items will be published in the NISK open-access series of proceedings by the Open Journal Systems at Bibsys.

2 Conference Key Note

The Conference key note is presented by Elise Lindeberg, the title of her presentation was *The field of innovation, digitalization and communication protection*. In her presentation she discussed about the the European regulation on communications protection and privacy (e-privacy and GDPR) in relation to the need for facilitation of innovation and competition in the economic sector. Her Key Note was in Norwegian, so most of the international participants wasn't able to understand the Key Note.

3 Conference Program

The conference program was divided in to five sessions in which fourteen papers are presented. The sessions with the presented papers are given below:

- CRYPTO-PRIMITIVES

The first session was chaired by *Tor Helleseth* in which two papers were presented. The first paper *A Successful Subfield Lattice Attack on a Fully Homomorphic Encryption Scheme* was a regular paper and was presented by *Martha Norberg Hovd*. The second paper *Improving the generalized*

correlation attack against stream ciphers by using bit parallelism was a short paper and was presented by *Slobodan Petrovic*

- CRYPTO-PROTOCOLS

The second session was chaired by *Vladimir Oleshchuk* in which two papers were presented. The first paper was *Distributed Personal Password Repository using Secret Sharing* which was a regular paper presented by *Merete Elle*. The second paper was also a regular paper with title *The tension between anonymity and privacy* which was presented by *Staal Vinterbo*

- SECURITY ANALYSIS

The third session was chaired by *Hanno Langweg* in which two short papers and two presentations were presented. The first short paper was *Where is the web still insecure? Regional scans for HTTPS certificates*, presented by *Tjerand Aga Silde*. The second short paper was *Debunking blockchain myths*, presented by *Roman Vitenberg*. The first presentation was about *Fake Chatroom Profile Detection*, presented by *Patrick Bours*. The second presentation was about *Combining threat models with security economics*, presented by *Per Hakon Meland*

- BIOMETRICS

The fourth session was chaired by *Ragnar Soleng* in which three regular papers were presented. The first paper was *Assessing face image quality with LSTMs*, presented by *Tommy Thorsen*. The second paper was *Baseline Evaluation of Smartphone based Finger-photo Verification System: A Preliminary Study of Technology Readiness*, presented by *Pankaj Wasnik*. The third paper was *Towards Fingerprint Presentation Attack Detection Based on Short Wave Infrared Imaging and Spectral Signatures*, presented by *Marta Gomez-Barrero*.

- MALWARE

The fifth and final session was chaired by *Stig F. Mjølunes* in which three regular papers were presented. The first paper was *Fighting Ransomware with Guided Undo*, presented by *Matthias Held*. The second paper was *Source Code Patterns of Cross Site Scripting in PHP Open Source Projects*, presented by *Basel Katt*. The third paper was *Comparing Open Source Search Engine Functionality, Efficiency and Effectiveness with Respect to Digital Forensic Search*, presented by *Joachim Hansen*.

4 Social Activities

The conference dinner was held at CAMP BARENTZ at Advent valley, which is 10 kilometers away from Longyearbyen. The valley is also the home of polar bears so the conference organizers provided participants, a once in a life time experience in which dinner was served under the protection of armed guards.

5 My Participation

I participated in COINS-PhD student workshop in which i presented my ongoing research with a presentation title *Importance of Autonomous Teams in Operation-Based Cyber Security Exercises*. The audience feedback was positive and they were very interested in the ongoing research.



Figure 1: COINS PhD Studnet Work Shop, Muhammad Mudassr Yamin Presentation