

SICSA Research Theme Activity Report

Please complete all sections of this reporting template and submit within 3 months of your event or activity taking place. This report will allow the SICSA Directors to provide detailed information about the progress of the SICSA Research Themes to the Pool funders, SFC, and your cooperation is appreciated.

Name of event organiser: **Dr Naghmeh Moradpoor**
 Email address: n.moradpoor@napier.ac.uk
 Institution: **Edinburgh Napier University**

Title of event: **Post Graduate Cyber Security (PGCS) symposium**
 Location of the event: **Edinburgh Napier University, Craiglockhart Campus (Room 2/05), 219 Colinton Road, Edinburgh, EH14 1DJ, United Kingdom**
 Date of event: **10th May 2016**
 From which SICSA Research Theme was this event funded? **Next Generation Internet and Cyber-Security**
 Total funds claimed for event: **£800**

Please outline in brief what took place at the event, providing details of speakers and titles of talks:
This first international symposium on Post Graduate Cyber Security (PGCS) was a conference for early researchers and leading industrial experts in cyber security and digital forensics to present, discuss, and publish their research alongside guest speakers from academia and industry. The PGCS symposium was held in Edinburgh Napier University and in collaboration with SICSA, The Cyber Academy and Strathclyde Forensics on 10th of May 2016 and in parallel with International Conference of Big Data in Cyber Security. Having the PGCS symposium held in parallel with this event assisted the young researchers to understand the demands for cyber security and digital forensics in different organisations.

Conference program (10th May 2016):

10.00-10.30	-Keynote speaker: Big Data: Machine Learning, Heuristic Methods and the Future of Cybersecurity in HPC Environments, Dr. Matthew Craven – Plymouth University
10.30-11.00	-Guest speaker: Incident Response, Vincent Lamb – IT Security Training Ltd
11:00 – 11:30	Coffee (Foyer)
11.30-12.00	-Paper presentation (PhD student): Investigation of Virtual Network Isolation Security in Cloud Computing: Data Leakage, Haifa Al Nasser, St. Andrew University -Paper presentation (PhD student): DNS in Botnets and Advanced Persistent Threats, Peter McLaren, Edinburgh Napier University
12.00-12.30	-Paper presentation (MSc student): Introduction to Security Onion, Ross Heenan, Abertay University -Paper presentation (industry): Very Large Scale Digital Forensics (VLSDF), Vassilios Manoussos, Strathclyde Forensics
12:30-13.30	Lunch (Chapel and Rivers Suite)

13.30-14.00	-Guest speaker: Mobile Authentication, Dr. Ron Poet – University of Glasgow
14.00-14.30	-Talk from the event organiser: Intelligent IDS, Dr. Naghmeh Moradpoor, Edinburgh Napier University
14.30-15.00	-Paper presentation (PhD student): CyberSecurity for the Unbanked, Stephen Ambore, Bournemouth University -Paper presentation (PhD student): TCloud: Availability at Zero Downtime, Elochukwu Ukwandu, Edinburgh Napier University -Paper presentation (MSc student): A Survey of Intrusion Detection System technologies, Ross Heenan, Abertay University
15.00-15.20	Coffee (Foyer)
15.20-15.40	Concluding

Please provide details of how many attended and if possible, information about which institutions were represented:

Number of ticket sold via Eventbrite: 40 tickets

Number of attendee: 80 attendees

Institutions: Plymouth University, IT Security Training Ltd, St. Andrew University, Edinburgh Napier University, Abertay University, University of Glasgow, Bournemouth University, Strathclyde Forensics (industry), The Cyber Academy

Outcomes:

Please give details of any research papers that have come or are pending as a result of this activity:

-Investigation of Virtual Network Isolation Security in Cloud Computing: Data Leakage, Haifa Al Nasser and Ishbel Duncan, St. Andrew University

-DNS in Botnets and Advanced Persistent Threats, Peter McLaren, Dr Gordon Russell and Prof Bill Buchanan, Edinburgh Napier University

-Introduction to Security Onion, Ross Heenan and Naghmeh Moradpoor, Abertay University and Edinburgh Napier University

-Very Large Scale Digital Forensics (VLSDF), Vassilios Manoussos, Strathclyde Forensics

-CyberSecurity for the Unbanked, Stephen Ambore, Christopher Richardson, Huseyin Dogan, Edward Apeh and David Osselton, Bournemouth University

-TCloud: Availability at Zero Downtime, Elochukwu Ukwandu, Prof Bill Buchanan and Dr Gordon Russell, Edinburgh Napier University

-A Survey of Intrusion Detection System technologies, Ross Heenan and Naghmeh Moradpoor, Abertay University and Edinburgh Napier University

The above papers are available online in PDF format. Please check:

http://thecyberacademy.org/pgcs-conference_program

Please provide details of any grant applications that have come or are pending as a result of this activity:

The reputational enhancement via establishing a track record of publication in the area will allow the credible submission of a number of possible grant proposals in the area. In a short term we shall build on this proposal by submitting follow on grant proposal to the Carnegie Research Incentive Grants scheme and Horizon2020. This would enable us to further develop our research track record in preparation for submission to EPSRC early career research grant for Dr Naghmeh Moradpoor.

Please provide details of any further outcomes that have come as a result of this activity:

The extended versions of the PGCS selected papers have been invited for possible publication in the Journal of Cyber Security Technology.

Do you have any plans to bid for further SICSA Theme Funding in the future?

Next Generation Internet and Cyber-Security- 2017 (PGCS2017)