

ROUTING AND ACTION

MEMORANDUM

ROUTING

TO:(1) Network Sciences Branch (Wang, Cliff)

Report is available for review

(2) Proposal Files Report No.: -CF

Proposal Number: 71129-NS-CF.1

DESCRIPTION OF MATERIAL

CONTRACT OR GRANT NUMBER: W911NF-17-1-0238

INSTITUTION: University of South Florida

PRINCIPAL INVESTIGATOR: Yao Liu

TYPE REPORT: Final Report

DATE RECEIVED: 2/15/22 9:27AM

PERIOD COVERED: 6/1/17 12:00AM through 11/30/18 12:00AM

TITLE: Final Report: Workshop on Foundations and Challenges for Proactive and Dynamic Network Defense

ACTION TAKEN BY DIVISION

(x) Report has been reviewed for technical sufficiency and IS IS NOT satisfactory.

() Based on my technical review, I have identified no OPSEC or Technology Protection concerns that need to be addressed regarding this report.

(x) Performance of the research effort was accomplished in a satisfactory manner and all other technical requirements have been fulfilled.

(x) Based upon my knowledge of the research project, I agree with the patent information disclosed.

Approved by SSL\CLIFF.WANG.2 on 8/9/22 2:38PM

ARO FORM 36-E

REPORT DOCUMENTATION PAGE			Form Approved OMB NO. 0704-0188		
<p>The public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA, 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.</p>					
1. REPORT DATE (DD-MM-YYYY) 15-02-2022		2. REPORT TYPE Final Report		3. DATES COVERED (From - To) 1-Jun-2017 - 30-Nov-2018	
4. TITLE AND SUBTITLE Final Report: Workshop on Foundations and Challenges for Proactive and Dynamic Network Defense			5a. CONTRACT NUMBER W911NF-17-1-0238		
			5b. GRANT NUMBER		
			5c. PROGRAM ELEMENT NUMBER 611102		
6. AUTHORS			5d. PROJECT NUMBER		
			5e. TASK NUMBER		
			5f. WORK UNIT NUMBER		
7. PERFORMING ORGANIZATION NAMES AND ADDRESSES University of South Florida 3650 Spectrum Blvd Suite 160 Tampa, FL 33612 -9446			8. PERFORMING ORGANIZATION REPORT NUMBER		
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS (ES) U.S. Army Research Office P.O. Box 12211 Research Triangle Park, NC 27709-2211			10. SPONSOR/MONITOR'S ACRONYM(S) ARO		
			11. SPONSOR/MONITOR'S REPORT NUMBER(S) 71129-NS-CF.1		
12. DISTRIBUTION AVAILABILITY STATEMENT Approved for public release; distribution is unlimited.					
13. SUPPLEMENTARY NOTES The views, opinions and/or findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other documentation.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT UU	15. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON Yao Liu
a. REPORT UU	b. ABSTRACT UU	c. THIS PAGE UU			19b. TELEPHONE NUMBER 813-974-1079

RPPR Final Report
as of 09-Aug-2022

Agency Code: 21XD

Proposal Number: 71129NSCF

Agreement Number: W911NF-17-1-0238

INVESTIGATOR(S):

Name: Yao Liu
Email: yliu@cse.usf.edu
Phone Number: 8139741079
Principal: Y

Organization: **University of South Florida**

Address: 3650 Spectrum Blvd, Tampa, FL 336129446

Country: USA

DUNS Number: 069687242

EIN: 593102112

Report Date: 28-Feb-2019

Date Received: 15-Feb-2022

Final Report for Period Beginning 01-Jun-2017 and Ending 30-Nov-2018

Title: Workshop on Foundations and Challenges for Proactive and Dynamic Network Defense

Begin Performance Period: 01-Jun-2017

End Performance Period: 30-Nov-2018

Report Term: 0-Other

Submitted By: Yao Liu

Email: yliu@cse.usf.edu

Phone: (813) 974-1079

Distribution Statement: 1-Approved for public release; distribution is unlimited.

STEM Degrees:

STEM Participants:

Major Goals: The project was to hold an invitational workshop titled "Workshop on Foundations and Challenges for Proactive and Dynamic Network Defense", whose purpose is to gather top network/security researchers from the academia and government agencies to discuss and summarize current research issues, identify challenges, brainstorm potential solutions, and outline important future directions for proactive and dynamic defense with applications in various networked systems.

Accomplishments: The workshop was held in 11/30/2017 - 12/1/2017. There were in total 24 researchers participating in the workshop. The workshop includes 2 panels, 3 technical talks, 4 discussion tables, and 6 summary talks that touch upon research topics including fundamental mathematical tools, analytical approaches, evaluation methodologies, and future research visions regarding create proactive and adaptive techniques and methodology in networked systems.

The workshop also resulted in one compiled book "Proactive and Dynamic Network Defense" to be published by Springer, in which workshop participants were actively involved in contributing the book chapters.

Training Opportunities: Nothing to Report

Results Dissemination: Nothing to Report

Honors and Awards: Nothing to Report

Protocol Activity Status:

Technology Transfer: Nothing to Report

PARTICIPANTS:

Participant Type: PD/PI

Participant: Yao Liu

Person Months Worked: 1.00

Funding Support:

Project Contribution:

National Academy Member: N

RPPR Final Report
as of 09-Aug-2022

Partners

,

I certify that the information in the report is complete and accurate:

Signature: Yao Liu

Signature Date: 2/15/22 9:27AM

The project was to hold an invitational workshop titled “Workshop on Foundations and Challenges for Proactive and Dynamic Network Defense”, whose purpose is to gather top network/security researchers from the academia and government agencies to discuss and summarize current research issues, identify challenges, brainstorm potential solutions, and outline important future directions for proactive and dynamic defense with applications in various networked systems.

The workshop was held in 11/30/2017 - 12/1/2017. There were in total 24 researchers participating in the workshop. The workshop includes 2 panels, 3 technical talks, 4 discussion tables, and 6 summary talks that touch upon research topics including fundamental mathematical tools, analytical approaches, evaluation methodologies, and future research visions regarding create proactive and adaptive techniques and methodology in networked systems.

The workshop also resulted in one compiled book “Proactive and Dynamic Network Defense” to be published by Springer, in which workshop participants were actively involved in contributing the book chapters.