

Project

Yu Chen

Project	Years	Sponsor/Monitor	Grant Amt.	Summary	Final Report
A Testbed for Reconfigurable Network Security Research and Experiment	2008-2009	DoD	\$214,385		
Detection of Covertly Embedded Hardware in Digital Systems	2010-2014	AFOSR	\$449,931		
CRI-IAD: Infrastructure Acquisition and Development for Computer Architecture Research and Education	2011-2012	NSF	\$52,000		
Design and Development of Cloud Computing based Service for Robots Applications	2012-2013	Intelligent Fusion Technology, Inc.	\$60,000		

Scott Craver

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PECASE: Toward a General Theory of Counterdeception	2009-2014	AFOSR	\$1,000,000		
YIP: Identification of Secret Algorithms Using Oracle Attacks	2007-2009	AFOSR	\$300,000		
Estimation of Information Hiding Algorithms and Parameters	2005-2006	AFOSR	\$150,000		

Jessica Fridrich

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Lossless Data Embedding and Crypto-Transformations for Steganography	2000-2003	AFOSR	\$315,000		
Development of Novel Steganography Detection Capabilities for Digital Images	2001	NSF	\$90,000		
Automated Multi-Level Security Digital Information Transfer Using Watermarking Technologies	2000-2003	AFOSR	\$750,000		
Innovative C4I Technologies (Secure Image Encryption and Hiding)	1997-2000	AFOSR	\$100,000		
Steganalysis of Digital Watermarking Techniques	2001-2002	AFOSR	\$60,000		
Smart Digital Images - Embedding for Information, Protection, and Self-Repair	2000-2002	AFOSR	\$350,000		
New Generation Approach to Digital Security: Steganography, Steganalysis, and Authentication of Digital Data	2002-2005	AFOSR	\$1,960,000		
Mathematical Foundations of Steganalysis	2004-2007	AFOSR	\$700,000		
Advanced Steganographic and Digital Forensic Methods	2006-2008	AFOSR	\$600,000		
Towards Statistically Undetectable Steganography	2008-2011	AFOSR	\$525,198		
Digital Image Forensics Using Systematic Artifacts of Imaging Sensors	2008-2010	NSF	\$300,000		
Advanced Steganalysis Methods for Digital Images	2009-2011	AFOSR	\$588,565		
Rich Cover Models for Steganalysis of Digital Media	2012-2017	AFOSR	\$1,854,808		

Victor Skormin

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Biological Approach to System Information Security (BASIS)	2002	Rome Laboratory, Rome, NY	\$314,000		30602-01-0509
Replication of Computer Viruses by Detecting Their "Gene of Self Replication"	2002-2005	AFOSR	\$421,000		FA9620-03-1-0167
Emulation of the Active Immune Response in a Computer Network	2005-2008	AFOSR	\$599,000		FA9550-05-1-0361
Experimental Computer Network Testbed for Information Security Research	2006-2008	AFOSR	\$185,500		FA9550-06-1-0340
Server Level Analysis of Network Operation Utilizing System Call Data	2007-2009	AFOSR	\$600,000		FA9550-07-1-0453
Anomaly-Based Intrusion Detection Systems Utilizing System Call Data	2009-2011	AFOSR	\$515,600		FA9550-09-1-0067
Experimental Computer Network Testbed for Information Security Research	2009-2011	AFOSR	\$255,300		FA9550-09-1-0379
Semantic Approach to Behavior-Based IDS and It's Applications	2012-2016	AFOSR	\$2,282,500	FA9550-12-1-0077	
Experimental Facility for SCADA Security Research	2012-2013	AFOSR - PENDING	\$550,000		
Customized Normalcy Profiles for Large-Scale Computer Control Systems	2012-2015	Office of Naval Research - PENDING	\$1,600,000		

Douglas H. Summerville

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Detection of Covertly Embedded Hardware in Digital Systems	2010-2013	AFOSR	\$449,931		
DURIP-08: A Testbed for Reconfigurable Network Security Research	2005-2009	AFOSR	\$214,385		

Ping Yang

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Securing Applications by Limiting Exposure	2011	STTR, US Air Force Research Laboratory	\$50,000		
II-NEW: A Virtualized Cluster Testbed to Support Research In Large Memory And Data Intensive Applications	2009	National Science Foundation	\$325,178		

Kartik Gopalan

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Securing Applications by Limiting Exposure	2011-2012	DoD/Air Force Research Labs	\$50,000		
II-NEW: A Virtualized Cluster Testbed to Support Research In Large Memory And Data Intensive Applications	2009	National Science Foundation	\$325,178		

Kanad Ghose

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Building Trustworthy Distributed/Networked Systems: A Software Solution for Low Overhead, Continuous and Dynamic Authentication of Remote Executions	2010	AFOSR	\$60,564		

Nael-Abu Ghazaleh

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CSR: Small: Collaborative Research: Combining Static Analysis and Dynamic Run-Time Optimization for Parallel Discrete Event Simulation in Many-Core Environments	2009-2012	National Science Foundation	\$358,031		
Architectural Support for Trusted Computing in Many-Core Processors	2009-2011	US Air Force Research Laboratory	\$660,000		
Coverage, Networking and Storage Problems in Wireless Multimedia Sensor Networks	2009-2012	Carnegie Mellon University	\$410,516		
Real World Cognitive MultiTaskings and Problem Solving: A Large-Scale Cognitive Architecture Simulation Through HPC - Project	2005-2007	Dartmouth College (AFRL)	\$88,071		
DURIP: Equipment Support to Experimenting Novel Computation Models	2006-2007	AFOSR	\$74,090		
Development of a Sentinel Wireless Sensor Network	2005-2007	Edgewood Chemical Biological Center (U.S. Army)	\$302,572		
Using Heterogeneous High Performance Computing Cluster for Supporting Fine-Grained Parallel Applications	2005-2006	Air Force Research Lab	\$35,000		
Optimization of PDES on High Performance Clusters	2004-2005	AFOSR	\$36,995		

Dmitry Ponomorev

Project	Years	Sponsor/Monitor	Grant Amt.	Summary	Final Report
SHF:Small:Architectural Support for Security in the Many-core Age: Threats and Opportunities	2010	NSF	\$523,000		
CSR---SMA: A Design Space Exploration Tool for x86 and -64 Multicore Microprocessors	2007	NSF	\$160,000		
CSR: Small: Collaborative Research: Combining Static Analysis and Dynamic Run-time Optimization for Parallel Discrete Event Simulation in Many-Core Environments	2009	NSF	\$358,031		

Kyoung-Don Kang

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IAPD: Integrated Adaptive and Proactive Defense against Stealthy Botnets	2011-2012	Part of supplementary project to AFOSR	\$21,304		
CSR---EHS: Collaborative Research: Systematic Approaches for Real-Time Stream Data Services	2011-2014	NSF			

Lijun Yin

Project	Years	Sponsor/Monitor	Grant Amt.	Summary	Final Report
CI-ADDO-EN: Collaborative Research: 3D Dynamic Multimodal Spontaneous Emotion Corpus for Automated Facial Behavior and Emotion Analysis	2012-2015	NSF	\$416,801		
EAGER: Spontaneous 4D-Facial Expression Corpus for Automated Facial Image Analysis	2010-2011	NSF	\$110,000		
Processing Time-varying 3D Geometry: Solving the 3D Correspondence Problem	2009-2010	AFRL	\$16,000		
Modeling Shape Variability for Dynamic 3D Object Understanding & Analysis	2010	AFOSR/AFRL	\$29,207		
CRI II-NEW: A Virtualized Cluster Testbed to Support Research In LargeMemory And Data Intensive Applications	2009-2012	NSF	\$325,178		
Real time eye tracking and hand tracking for human computer interaction	2008-2010	AFRL	\$389,707		
Developing a 3D face modeling, analysis and recognition system	2006-2008	NYSTAR	\$200,000		
SGER: Developing a high-definition face modeling system for recognition and generation of face and face expressions	2004-2006	NSF	100,000 plus \$17,000 matching funds		
SGER: Analyzing face expressions in 3D space	2005-2007	NSF	\$100,000 plus \$39,500 matching funds		
Hyper-Resolution: Image Details Recovery From Head CT/MRI Scans	2004-2005	SUNY Medical Center	\$10,000		