Curriculum Vitae
Kevin P. Coogan

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Education

Ph.D. Computer Science, University of Arizona, Tucson, AZ, May 2011 *expected*

M.S. Computer Science, University of Arizona, Tucson, AZ, May 2008

B.S. Computer Science, Minor: Mathematics, College of Charleston, Charleston, SC, May 2005

B.S. Mechanical Engineering, Virginia Tech, Blacksburg, VA, May 1993

Fields of Interest

Security, Binary Analysis, Malware, Programming Languages

Publications

Deobfuscating Virtualization-Obfuscated Software: A Semantics-Based Approach, K Coogan, G Lu, S Debray, *in progress*

Equational Reasoning of x86 Assembly Code, K Coogan, *submitted for publication*

Modelling Metamorphism by Abstract Interpretation, M Dalla Preda, R Giacobazzi, S Debray, K Coogan, G Townsend, *Proc. 17th. International Static Analysis Symposium (SAS)*, Sept. 2010.

Automatic Static Unpacking of Malware Binaries, K Coogan, S Debray, T Kaochar, G Townsend, *Proceedings of the 2009 16th Working Conference on Reverse Engineering*, 2009, p. 167-176

Multi-Scale Dead-Reckoning Algorithm for Distributed Force-Directed Sensor Network Localization, K Coogan, B Katz, V Khare, S Kobourov, *6th Workshop on Algorithms for Sensor Applications*, July 2010

On matching robustness and geometric stable marriage, V Polishchuk, E M Arkin, B Aronov, K Barnard, K Coogan, A Efrat, JS B Mitchell, *Kyoto International Conference on Computational Geometry and Graph Theory, 2007*

Acquisition of View-Based 3-D Object Models Using Supervised, Unstructured Data, K Coogan and I Green, *International Conference on 3D Digital Imaging and Modeling*, 2005, p. 455-461

Academic Experience

Instructor, CSc 345 Analysis of Discrete Structures, Summer 2006

Instructor, CSc 345 Analysis of Discrete Structures, Summer 2010

Research Assistant, for professor Saumya Debray, Spring 2007 - Spring 2008

Teaching Assistant, CSc 345 Analysis of Discrete Structures, Spring 2006, Fall 2007

Teaching Assistant, CSc 245 Introduction to Discrete Structures, Fall 2005

Tutor, College of Charleston Computer Science Department, August 2003 - May 2004

Professional Experience

Software Development Intern, Benefitfocus, Charleston, SC, February 2005 - July 2005
Developed new features and implemented bug fixes for web-based application

Awards

GAANN Fellowship, University of Arizona, Fall 2008 - Spring 2011

Galileo Scholar, University of Arizona, 2007

Undergraduate Research Grant, College of Charleston, Summer 2004

Graduated *suma cum laude*, College of Charleston, May 2005

Selected to Phi Kappa Phi honor society, 2005

Selected to Upsilon Pi Epsilon honor society, 2005

Activities

Chair, (GSC) Graduate Student Committee, Fall 2008 - Spring 2009

Member, Graduate Admissions Committee, Spring 2008

Member, (GSC) Graduate Student Committee, Fall 2007 - Spring 2011