

CHEN HUO

University of Delaware
Smith Hall, Room 213
Newark, DE 19716

Phone: (302) 465-4932
huoc@udel.edu
<http://www.chenhuo.org>

Education

- 2012–present **University of Delaware** Newark, DE
Ph.D. in Computer Science
Thesis title: Automated Techniques for Improving the Quality of Existing Test Suites
Advisor: James Clause
- 2010–2012 **University of Northern Iowa** Cedar Falls, IA
M.S. in Computer Science
- 2006–2010 **Shanghai Jiao Tong University** Shanghai, China
B.S. in Electrical and Computer Engineering

Internship

- Summer 2016 **Software developer, Intern**, Amazon Seattle, WA
AWS Infrastructure, web development
- Summer 2012 **Software developer, Intern**, Banno Cedar Falls, IA

Research Interests

Areas: Software Engineering, Software Testing, Program Analysis, Dynamic Tainting
OraclePolish: Using technique based on dynamic tainting to detect both brittle assertions and unused inputs. Published at **FSE2014**.

ICDC: I proposed a new approach for interpreting coverage information, based on the concepts of direct coverage and indirect coverage, that address these limitations. Published at **ICST2016**.

Skills

Programming Languages: Java, Scala, JavaScript, Ruby, Python, Racket, C++/C
Web Development: (1) Website design and development using Ruby on Rails (Amazon, 2016)
(2) Web service design and development using Scala/Java (Amazon, 2016; Banno 2011)

System Administration: (1) Maintaining my own web blog and mail server at chenhuo.org on Amazon EC2 since 2011 (2) Developed a system to monitor bandwidth usage in campus (2012)

Publications

- Chen Huo and James Clause. Improving oracle quality by detecting brittle assertions. In *Proceedings of International Symposium on the Foundations of Software Engineering*, 2014
- Chen Huo and James Clause. Interpreting coverage information using direct and indirect coverage. In *IEEE International Conference on Software Testing, Verification and Validation*, 2016