Curriculum Vitae

BUI HOANG DUC

Personal Information

- Name: Bui Hoang Duc (Last – middle –first name)
- Korean name: 부이황득
- Date of Birth: June 19, 1987
- Mobile: +82-10-8211-8521
- E-mail address: ducbuihoang@gmail.com or ducbuihoang@kaist.ac.kr
- Website: http://cps.kaist.ac.kr/ducbh

Education

- 2011 - 2013: Master's student at Computer Science Department, KAIST, South Korea.
- 2010 - 2011: Part-time student at Provable Software Lab, KAIST, South Korea.
- 2010 - 2011: Korean language training at Chungnam National University, South Korea.
- 2005 - 2010: Bachelor of Science in Computer Science, Hanoi University of Science and Technology (HUST), Vietnam.

Publication

1. *Duc Hoang Bui*, Kilho Lee, Sangeun Oh, Hyojeong Shin, Insik Shin, Honguk Woo, Daehyun Ban. GreenBag: Energy-efficient Bandwidth Aggregation for Real-time Streaming in Heterogeneous Mobile Wireless Networks. IEEE Real-Time Systems Symposium (RTSS) 2013. *under review.*
2. *Duc Bui Hoang*, Yunho Kim, Moonzoo Kim. A Case Study of the Application of Dynamic Symbolic Execution to Real-World Binary Programs. Korea Conference on Software Engineering (KCSE), Feb 8-10, 2012 (4 pages short paper).
3. Thang Huynh Quyet, Quynh Pham Thi, *Duc Bui Hoang.* A method of verifying web service composition. SoICT '10. Proceedings of the 2010 Symposium on Information and Communication Technology. Pages 155-162. ACM New York, NY, USA ©2010. ISBN: 978-1-4503-0105-3.

Academic Activity

1. *Duc Bui Hoang*, Yunho Kim, Moonzoo Kim. A Case Study of the Application of Dynamic Symbolic Execution to Real-World Binary Programs. ROSAEC-HKUST CSE Joint Workshop on Program Analysis for Error-free Computing, Hong Kong University of Science and Technology, Hong Kong, January, 2012.

Master Thesis

GreenBag: Energy-efficient Bandwidth Aggregation for Real-time Streaming in Heterogeneous Mobile Wireless Networks. Korea Advanced Institute of Science and Technology. June 2013.

Bachelor Thesis

A Method of BPEL Process Verification. Hanoi University of Science and Technology. June 2010.

Experience

- 07/2012-8/2013: **Master's student** at Cyber-Physical Systems Lab, KAIST.
  - o Research multi-link real-time video streaming in mobile environments.
- 06/2011-06/2012: **Master's student** at Provable Software Lab, KAIST.
  - o Improving fault localization techniques using dynamic symbolic execution.
  - o Applying dynamic symbolic execution to verify real-world binary programs on Windows using BitBlaze and S2E.
- 9/2010-06/2011: **Part-time student** at Provable Software Lab, KAIST.
  - o Applying dynamic symbolic execution to verify BusyBox, a set of UNIX utilities for embedded systems.
- 12/2009-1/2010: **Project employee** in **Sustainable Business Development Project, a research project, of Aalto University of Helsinki, Finland** (subproject of Innovation Partnership Programme[1], official development assistance (ODA) co-operation between Ministry of Science and Technology, Vietnam and Finnish Ministry for Foreign Affairs, Finland).
  - o Collaborating with Finnish student group from Aalto University of Helsinki in the research about software companies in Hanoi (identifying companies of interest, interviewing, documentations, presentations, ideas, discussing, planning and organizing seminar)
- 10/2009-12/2009: **Leader of a 4-student team of Hanoi University of Technology**, collaborating with other groups from European universities in Distributed Outsourced Software Engineering course organized by Swiss Federal Institute of Technology Zurich (ETH Zurich).
- 7/2009-10/2009: **Internship student** at **August Technology and Applications Join Stock Company.**
- 12/2008-6/2009: **Internship student** at **Electronic Lab** of Bach Khoa Information-Communication Join Stock Company in Hanoi University of Science and Technology.
- 6/2007-1/2008: **Internship student** at **Electronic Design Laboratory**, School of Information and Communication Technology, Hanoi University of Science and Technology.

Technical Skills

- **Programming Languages**: C, C++, Java, C#, Visual Basic, SQL, Assembly, XML, WSDL, BPEL.
- **Web technology**: Servlet, JSP, Struts, HTML.
- **Integrated development environments (IDEs)**: Rational Software Architect, Eclipse, Intalio Designer, Netbeans, JDeveloper, Microsoft Visual Studio.
- **Database management system (DBMS)**: IBM DB2, MySQL, Microsoft SQL server
- **Server**: IBM WebSphere Application Server, Apache Tomcat, Glassfish.

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[1] http://ipp.gov.vn

- **Electronic circuit design and implementation, programming on microcontrollers**: Atmel AVR, 8051 family.

Qualifications and achievements

- **Current Grade Point Average (GPA): 4.03/4.30**
- **Bachelor's degree overall GPA: 8.53/10.00** (**ranked in top One percent (1%)** out of 302 students graduated from School of Information and Communication Technology, HUST)
- **Korean Government Scholarship Program (KGSP)** for Korean language training and Master's degree at KAIST, 2010 – 2013.
- **Scholarship for outstanding students in information, electronic and telecommunications faculties,** Ministry of Information and Communication, December 2009.
- **Runner-up of AmCham Scholarship 2009**, American Chamber of Commerce in Vietnam, December 2009.
- **Certificate of Completion, Distributed and Outsourced Software Engineering course 2009**, Swiss Federal Institute of Technology Zurich (ETH Zurich), December 2009.
- **IBM Certified Solution Designer** – Object Oriented Analysis and Design, vUML 2, July 2010
- **IBM Certified Application Developer** - Rational Application Developer for WebSphere Software V6.0, February 2010
- **IBM Certified Associate Developer** - Rational Application Developer for WebSphere Software V6.0, February 2010
- **IBM Certified Database Associate** - DB2 9 Fundamentals, February 2010
- **Certificate of Completion, Knowledge and Skills for starting Science and Technology Enterprise**, Ministry of Science and Technology – State Agency for Technology Innovation, September 2009.

Language Skills

- **Vietnamese**: Mother tongue
- **English**: Fluent - ***TOEFL iBT score***: 105/120 (Reading: 29, Listening: 26, Speaking: 22 and Writing: 28) *(test date: March 24, 2012)*
- **Korean:** Intermediate **–** 한국어능력시험 중급 **(3 급)**
- **French**: Basic

References

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Moonzoo Kim
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