Tung Thanh Le

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Research Interests

- Computer architecture for many-core systems. Scalable, interconnect networks in distributed systems.
- Optimization. Machine learning. Cloud computing. Datacenter-on-chip.

Education

University of Louisiana at Lafayette
September 2013 – Present
Ph.D. candidate, **Computer Science** (expected: Dec 2017)
Advisors: Prof. Danella Zhao, Prof. Magdy A. Bayoumi
Title: Optimization designs and Application-specific Accelerations for high-performance on Heterogeneous CPU-GPU Architectures
M.S., **Computer Science**, Dec 2016

Kumoh National Institute of Technology
September 2011 – June 2013
M.E., IT Convergence Engineering
*School of **Electronic Engineering***

Danang University of Technology
September 2002 – June 2007
B.E., with graduation thesis distinction, Automatic Control
*School of **Electrical Engineering***

Professional Work Experience

University of Louisiana at Lafayette, LA, Graduate Assistant, *August 2013 - present*
Hanwha Thales (*former: Samsung Thales*), South Korea, **Research Intern**, *August 2013 – December 2013*
Orion Technologies Co., South Korea, **Summer Intern**, *June 2012 – August 2012*
Unilab, Danang Univ. of Tech., Vietnam, **Software Engineer**, *May 2008 –August 2011*
Acronics Systems Inc., CA, USA, **PCB Engineer**, *June 2007 – April 2008*

Honors & Awards

- Teaching Assistantship, Spring 2016 - Present
- NSF Graduate Research Fellowship, *August 2013 – August 2015*
- Best Paper Award – *14th Conference on Electronics & Information Communications.*
- NIPA scholarship and NRF scholarship, South Korea, *September 2011 – June 2013*
- Samsung Thales scholarship for student travel, *December 2012*
- Excellent student in Danang University of Technology, *January 2004 – June 2007*
- One of four honor students achieving highest score on graduation thesis (4/500), *June 2007*

Selected publications

- An Efficient Throughput Improvement through Bandwidth Awareness in Cognitive Radio Networks – *Journal of Comm. Networks, 2014*
- Distributed Cooperative Transmission for Underwater Acoustic Sensor Networks – *IEEE WCNC, 2013*
- BAR: Bandwidth-Aware Opportunistic Localized-Routing for Cognitive Radio Networks – *IEEE GLOBECOM, 2012*

Projects

- **Price Dropping Looker:** A tool for looking into the price dropped of the *Amazon*'s items. Your wish-list items on Amazon will be alerted via your email if those prices are dropped below your expected price, the ratings and number of reviews also are taken into account.
- **New Cinema Booking System** – *Database Management Systems*

Designed the database system using ER-diagram. Used MySQL and PHP to build the online booking system. Two modes for admin and users.

- **Multi-class inheritance** – *Principle of Programming Language*

Used Scheme (Dr. Racket) to modify the interpreter for creating new functions of a language. In this work, multi-class inheritance is created. New instance generated is inherited to all the methods from joined classes. Used Scheme language for implementation.

- **802.11 DCF MAC Protocol simulation** – *Wireless Networking*

Implemented a 802.11 DCF MAC Protocol operation with Gillbert-Elliot channel model, RTS/CTS exchange, in different network topologies. Used C++ for implementation.

- **Pingo'in** – *Mobile Computing and Applications*

This android app is created by using a Google maps API. You can build your list of points of interest (POI) on the Google's map, then the application will scan your map within the preset radius, if your POIs are within this radius, they will be displayed on your screen. Used Java, Eclipse for building the app, and used SVN for merging the code project.

- **FPGA, ALU-16bits design** – *Computer Architecture*

Designed an ALU-16bits with basic operations using VHDL, Xilinx ISE and ModelSim. Verified by using Xilinx Spartan 3E FPGA.

Computer skills

Expertise with Java, C, C++, Python, Matlab, Assembly; Also fluency with PHP, MySQL, HTML, Dr.Racket (Scheme), R, Google or-tools, CPLEX/AMPL, Verilog, VHDL, LaTEX.