Emre Ateş

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Research Interests	Monitoring and Management of Large Scale Systems, Data Analysis, Cloud Computing, HPC

Education

Boston University   2015 - Present
PhD in Computer Engineering   GPA: 3.92
Advisor: Prof. Ayşe Kıvılcım Coşkun · Electrical and Computer Engineering Dept.

Middle East Technical University (METU)   2010 - 2015
B.S. in Electrical and Electronics Engineering   GPA: 3.23, Ranking: 37th among 353
Minor in History of Philosophy   GPA: 3.50

Research Experience

Peac Lab Research Group   Research Assistant
Boston, MA   *September 2015 – present*
Researched on data center monitoring and analytics, interference in HPC and cloud systems

BioMEMS Research Group   Voluntary Research Assistant
Ankara, TURKEY   *June 2014 – June 2015*
Improved sensing circuity of a MEMS based Coulter counter.

Qualifications

Programming Languages: Verilog, Assembly, C, C++, Java, Python, Perl, Bash, MatLab

Languages: English (fluent), Turkish (native), German (intermediate), Finnish (beginner)

Publications

Ozan Tuncer, **Emre Ates**, Yijia Zhang, Ata Turk, Jim Brandt, Vitus Leung, Manuel Egele, Ayse K. Coskun, "Diagnosing Performance Variations in HPC Applications using Machine Learning," to appear in *Int. Supercomputing Conf.* (ISC-HPC), Frankfurt, 2017.

Internships

Lawrence Livermore National Laboratory   Internship
Livermore, CA   *Summer 2017*
Investigated the effect of power, network QoS, external traffic, number of processes, etc. on different supercomputing benchmarks, used machine learning to model the performance.

Sandia National Laboratories   Internship
Albuquerque, NM   *Summer 2016*
Analyzed system monitoring data to automatically detect and classify anomalies in HPC clusters. Investigated allocation and task mapping algorithms for dragonfly systems.

ASELSAN AŞ (Military Electronic Industries)   Internship
Ankara, TURKEY   *Summer 2013*
Improved the performance of an existing 2D radar simulation, to make 3D simulations feasible.

Teaching Experience

Applied Algorithms and Data Stuctures   Head Teaching Assistant
Boston University   *Spring 2016, Fall 2016*
Weekly discussion session, checking exams and homeworks, coordinating the graders.

Awards and Scholarships

Gauss Award ISC-HPC   June 2017
Research paper award given by German Gauss Center for Supercomputing

A. Richard Newton Young Fellowship DAC   June 2015
Student fellowship to attend the 53rd Design Automation Conference

Distinguished ECE Fellowship Boston University   September 2015 - September 2016
Includes full tuition coverage with monthly stipend

Bülent Kerim Altay Award METU   Spring 2011
For achieving 4.0 GPA

Cousework in BU Advanced Data Structures, Computer Architecture, Advanced Digital Design with Verilog and FPGA, Introduction to Embedded Systems, Data Mining, Operating Systems, Cybersecurity, Advanced Computer Systems