Mohamed Assem Ibrahim

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RESEARCH INTERESTS

My research interests lie in all aspects of computer architecture, including data-parallel architectures (e.g., GPUs), CPU-GPU heterogeneous architectures, and interconnection networks.

EDUCATION

• College of William and Mary (W&M) Ph.D. Candidate in Computer Science Department Current GPA = 4

Spring 2016 - Present Williamsburg, VA

• Cairo University (CU) M.Sc. in Computer Engineering GPA = 4

Fall 2010 - Fall 2015 Giza, Egypt

• Cairo University (CU) B.Sc. (Hons.) in Computer Engineering GPA = 3.91 (Calculated with Foreign Credits GPA Calculator) Fall 2005 - Spring 2010 Giza, Egypt

PROFESSIONAL EXPERIENCE

• College of William and Mary (W&M)

Research Assistant

Advisor: Assistant Professor Adwait Jog

January 2016 - Present Williamsburg, VA

• Cairo University (CU) Research Assistant

Advisor: Professor Hatem El-Boghdadi

August 2010 – December 2015 Giza, Egypt

• Nile University (NU)

Software Engineer

Research Software Development Engineer (RSDE)

Advisor: Associate Professor Tamer ElBatt

June 2012 - June 2013 Giza, Egypt

My role was to conduct research and create functional prototypes related to predictive loading of content on mobile phones based on user modeling. The results of this work are published in ICC 2014 and MobiSys 2013.

Inmobly

October 2011 – June 2013 Giza, Egypt

Manager: Professor Hesham ElGamal

Mentor: Associate Professor Nayer Wanas

My role was to implement some of the required functionalities for several mobile applications. In PAUL, I implemented logging and reporting modules (for WiFi, content usage and battery), and scripts to analyze the logs and to build the user profile to correctly predict the different users' behavior. In in Football, I implemented the news crawler and the handlers for the different client-side requests. In Agenda25, I implemented the BlackBerry version of the application.

AWARDS, GRANTS, and HONORS

- Graudate Assistantship, College of William and Mary, 2016
- Student Travel Grant for attending: ISCA 2015
- Graudate Assistantship, Cairo University, 2010
- Best Graduation Project (Software Engineering Category), Egyptian Engineering Day (EED), IEEE GOLD, 2010

PUBLICATIONS

- [HPCA 2017] Xulong Tang, Ashutosh Pattnaik, Huaipan Jiang, Onur Kayiran, Adwait Jog, Sreepathi Pai, Mohamed Ibrahim, Mahmut Kandemir, Chita Das, Controlled Kernel Launch for Dynamic Parallelism in GPUs, In the Proceedings of 23^{rd} International Symposium on High-Performance Computer Architecture (HPCA), Austin, USA, Feb, 2017 Acceptance rate: $50/224 \approx 22\%$
- [M.Sc. Thesis 2015] Mohamed Ibrahim, On Enhancing the Performance of Bufferless Network-on-Chip, M.Sc. Thesis, Cairo University, Giza, Egypt, 2015
- [MES 2015] Mohamed Ibrahim, Hatem M El-Boghdadi, Investigating the Viability of Maximum Flexibility Selection Function in Bufferless 2D Meshes, In the Proceedings of 3rd International Workshop on Many-core Embedded Systems (MES), Portland, OR, June, 2015
- [ICC 2014] Omar Shoukry, Mohamed Ibrahim, John Tadrous, Hesham El Gamal, Tamer ElBatt, Nayer Wanas, Yaser Elnakieb, and Mohamed Khairy Proactive Scheduling for Content Prefetching in Mobile Networks, In the Proceedings of IEEE International Conference on Communications (ICC), Sydney, Australia, June, 2014 Acceptance rate: 995/2,608 ≈ 38%
- [MobiSys 2013] Mohamed Ibrahim, Omar Shoukry, Hesham El Gamal, Tamer ElBatt, Nayer Wanas, Mohamed Abdel Raouf, Mohamed Zakaria, Ahmed Abdel Kader and Hakem Zayed *PAUL Proactive Automated mobile User centric content deLivery*, In the Proceedings of 11th International Conference on Mobile Systems, Applications, and Services (MobiSys), Taipei, Taiwan, June, 2013

TEACHING EXPERIENCE

Fall 2016
Spring 2016
Spring 2016
Fall 2015
Fall 2015
Spring 2015
Fall 2014
Fall 2014
Spring 2014
Fall 2013
Fall 2013
Spring 2013

• Teaching Assistant@CU, CMP 101A, Logic Design	Fall 2012
• Teaching Assistant@CU, CMP 301A, Computer Architecture	Fall 2012
• Teaching Assistant@CU, CMP 206, Multimedia	Spring 2012
• Teaching Assistant@CU, CMP 405A, Computer Networks	Fall 2010