

Ahmed Saeed (Ahmed Said Mohamed Tawfik Issa)

CONTACT INFORMATION	Office: Klaus Building - Room 3337 Mailing address: 980 Saint Charles Ave NE # 4, Atlanta, GA (30306)	+1 (678) 925-8050 ahmed.saeed@gatech.edu http://www.cc.gatech.edu/~amsmti3
EDUCATION	Georgia Institute of Technology , Atlanta, Georgia, USA PhD in Computer Science August 2014 - Present <ul style="list-style-type: none">• Advisors: Prof. Mostafa Ammar and Prof. Ellen W. Zegura Georgia Institute of Technology , Atlanta, Georgia, USA Master's of Science in Computer Science May 2018 <ul style="list-style-type: none">• Specialization: Computing Systems Alexandria University , Alexandria, Egypt Bachelor's of Science, Computer and Systems Engineering July 2010 <ul style="list-style-type: none">• Thesis title: Towards Numerical Weather Prediction Acceleration Using GPUs	
HONORS AND AWARDS	Google PhD Fellowship in Systems and Networking (2017-2019). Third place in Student Research Competition (SRC) at MobiCom 2011. Second place in undergraduate Student Research Competition (SRC) at MobiCom 2009. Travel grants to attend: MobiSys'17 and PerCom'12.	
CONFERENCE PUBLICATIONS	<ol style="list-style-type: none">14. Eiffel: Efficient and Flexible Software Packet Scheduling USENIX NSDI 2019 <i>Ahmed Saeed</i>, Yimeng Zhao, Nandita Dukkupati, Ellen Zegura, Mostafa Ammar, Khaled Harras, Amin Vahdat13. If you can't beat them, augment them: Improving Local WiFi with Only Above-driver Changes IEEE ICNP 2018 <i>Ahmed Saeed</i>, Mostafa Ammar, Ellen Zegura, Khaled Harras12. Carousel: Scalable Traffic Shaping at End-Hosts ACM SIGCOMM 2017 <i>Ahmed Saeed</i>, Nandita Dukkupati, Vytautas Valancius, Vinh The Lam, Carlo Contavalli, Amin Vahdat11. Local and Low-cost White Space Detection IEEE ICDCS 2017 <i>Ahmed Saeed</i>, Khaled Harras, Ellen Zegura, Mostafa Ammar10. Argus: Realistic Target Coverage by Drones ACM/IEEE IPSN 2017 <i>Ahmed Saeed</i>, Ahmed Abdelkader, Mouhyemen Khan, Azin Neishaboori, Khaled Harras, Amr Mohamed9. The Inapproximability of Illuminating Polygons by α-Floodlights CCCG 2015 Ahmed Abdelkader, <i>Ahmed Saeed</i>, Khaled Harras, Amr Mohamed8. Up and Away: A Visually-Controlled Easy-to-Deploy Wireless UAV Cyber-Physical Testbed IEEE WiMob 2014 <i>Ahmed Saeed</i>, Azin Neishaboori, Khaled Harras, Amr Mohamed7. Low complexity target coverage heuristics using mobile cameras (<i>short paper</i>) IEEE MASS 2014 Azin Neishaboori, <i>Ahmed Saeed</i>, Khaled Harras, Amr Mohamed6. On Target Coverage in Mobile Visual Sensor Networks ACM MOBIWAC 2014 Azin Neishaboori, <i>Ahmed Saeed</i>, Khaled Harras, Amr Mohamed	

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|--------------------------|--|
| | <p>5. Location-Aware Probabilistic Route Discovery for Cognitive Radio Networks
IEEE WCNC 2014
Ahmed Elbagori, <i>Ahmed Saeed</i>, Moustafa Youssef</p> <p>4. A Low-Cost Large-Scale Framework for Cognitive Radio Routing Protocols Testing
IEEE ICC 2013
<i>Ahmed Saeed</i>, Mohamed Ibrahim, Khaled Harras, Moustafa Youssef</p> <p>3. Unconventional TV Detection using Mobile Devices
IARIA UBICOMM 2013
Mohamed Ibrahim, <i>Ahmed Saeed</i>, Moustafa Youssef, Khaled Harras</p> <p>2. Robust WLAN Device-free Passive Motion Detection
IEEE WCNC 2012
Ahmed E. Kosba, <i>Ahmed Saeed</i>, Moustafa Youssef,</p> <p>1. RASID: A Robust WLAN Device-free Passive Motion Detection System
IEEE PerCom 2012
Ahmed E. Kosba, <i>Ahmed Saeed</i>, Moustafa Youssef,</p> |
| JOURNAL
PUBLICATIONS | <p>4. On Realistic Target Coverage by Autonomous Drones
ACM Transactions on Sensor Networks (accepted)
<i>Ahmed Saeed</i>, Ahmed Abdelkader, Mouhyemen Khan, Azin Neishaboori, Khaled Harras, Amr Mohamed</p> <p>3. Toward Dynamic Real-time Geo-location Databases for TV white Spaces
IEEE Network 2015
<i>Ahmed Saeed</i>, Mohamed Ibrahim, Khaled Harras, Moustafa Youssef</p> <p>2. Ichnaea: A Low-overhead Robust WLAN Device-free Passive Localization System
IEEE Journal of Selected Topics in Signal Processing 2014
<i>Ahmed Saeed</i>, Ahmed E. Kosba, Moustafa Youssef</p> <p>1. Nuzzer: A Large-Scale Device-Free Passive Localization System for Wireless Environments
IEEE Transactions on Mobile Computing 2013
Moustafa Seifeldin, <i>Ahmed Saeed</i>, Ahmed E. Kosba, Moustafa Youssef, Amr El-Keyi</p> |
| WORKSHOP
PUBLICATIONS | <p>3. Vision: The Case for Symbiosis in the Internet of Things
ACM MCS 2015 in conjunction with ACM MobiCom
<i>Ahmed Saeed</i>, Mostafa Ammar, Khaled Harras, Ellen Zegura</p> <p>2. Towards a Characterization of White Spaces Databases Errors: An Empirical Study
ACM WiNTECH 2014 in conjunction with ACM MobiCom
<i>Ahmed Saeed</i>, Khaled Harras, Moustafa Youssef</p> <p>1. Target Coverage Heuristics Using Mobile Cameras
Robotic Sensor Networks 2014 part of Cyber-Physical Systems Week
Azin Neishaboori, <i>Ahmed Saeed</i>, Amr Mohamed, Khaled Harras</p> |
| REFEREED
POSTERS | <p>4. Enabling Large Scale Flexible Deployment of Cognitive Radio Routing Protocols
ACM WiNTECH 2012 in conjunction with ACM MobiCom
<i>Ahmed Saeed</i>, Mohamed Ibrahim Khaled Harras, Moustafa Youssef</p> <p>3. A Robust Technique for WLAN Device-free Passive Motion Detection
ACM MobiCom 2011
Ahmed E. Kosba, <i>Ahmed Saeed</i>, Moustafa Youssef</p> <p>2. Quantifying the Impact of GPU Specific Optimizations: An Experimental Study on a Weather Forecasting Application
ACM PACT 2010
<i>Ahmed Saeed</i>, Emad Elwany, Emad Tawadros, Kareem Abdelsalam, Pakinam Yousry, Samia Hafez</p> <p>1. DNIS: A Middleware for Dynamic Multiple Network Interface Scheduling
ACM MobiCom 2009
<i>Ahmed Saeed</i>, Karim Habak, Mahmoud Fouad, Moustafa Youssef</p> |

RESEARCH DEMOS	1. DNIS: Dynamic Multiple Network Interface Scheduler ACM MobiCom 2009 <u>Ahmed Saeed</u> , Karim Habak, Mahmoud Fouad, Moustafa Youssef
PATENTS	Patent 9800946, “Dynamic real-time TV white space awareness”, Khaled Harras, Moustafa Amin Youssef, Mohammed Ibrahim, <u>Ahmed Issa</u> , Granted Oct. 2017. US Patent Application No. 15/411,341, “Device And Method For Scalable Traffic Shaping With A Time-Indexed Data Structure”, Carlo Contavalli, Nandita Dukkhipati, <u>Ahmed Issa</u> , Vytautas Valancius, filed Jan. 2017. US Patent Application No. 15/411,335, “Device And Method For Scalable Traffic Shaping At A Receiver With A Time-Indexed Data Structure”, Carlo Contavalli, Nandita Dukkhipati, <u>Ahmed Issa</u> , Vytautas Valancius, filed Jan. 2017.
PRACTICAL EXPERIENCE	College of Computing, Georgia Institute of Technology , Atlanta, GA, USA. <i>Research Assistant</i> August 2014 - Present Google Inc. , Sunnyvale and Mountain View, CA, USA. <i>Student Researcher</i> August 2018 - December 2018 <i>Software Engineering Intern</i> May 2018 - August 2018 <i>Software Engineering Intern</i> May 2016 - January 2017 <i>Software Engineering Intern</i> May 2015 - August 2015 Carnegie Mellon University Qatar and Qatar University , Doha, Qatar. <i>Research Fellow</i> November 2013 - July 2014 Egypt-Japan University for Science and Technology , Alexandria, Egypt <i>Research Assistant</i> July 2010 - August 2013 Nile University , Cairo, Egypt <i>Research Assistant Intern</i> July 2009 - August 2009 eSpace Technologies , Alexandria, Egypt <i>Software Engineering Intern</i> July 2008 - February 2009
TEACHING EXPERIENCE	Georgia Institute of Technology , <i>Guest Lecturer on Congestion Control in Datacenters</i> Spring 2017, Fall 2017 Advanced Computer Networks (CS 6250) <i>Teaching Assistant</i> Fall 2015, Spring 2017 Advanced Computer Networks (CS 6250) Introduction to Computer Networks (CS 8803) Alexandria University , Alexandria, Egypt <i>Teaching Assistant/Demonstrator</i> Fall 2010 Introduction to Computers and Programming Programming in C Systems Programming
TECHNICAL SKILLS	Programming: • C/C++, Python, Go, Java, Ruby, CUDA, TCL/OTCL, Assembler, FORTRAN, VHDL, Matlab, Shell, JavaScript, GNU make, SQL. Libraries and frameworks: • Linux Networking Stack (TCP/IP, QDisc, and wireless), Docker Containers, Kubernetes, AR Drone SDK, GNU Radio, Click Modular Router, Windows Win32 Networking API (Layered Service Provider), MPI, OpenMP, ns2, GTK+, WPF, SWT, SWING.

ACTIVITIES AND
PROFESSIONAL
SERVICES

- Reviewer: IEEE JSAC, IEEE Computer, IEEE Micro, IEEE TVT, Elsevier COMNET, Elsevier Ad Hoc Networks, Elsevier Pervasive and Mobile Computing, and IEEE VTC'15.
- Vice President of Graduate Student Council for College of Computing at Georgia Tech (2015-2016).
- Senator at Graduate Student Senate of the Graduate Student Government Association (2015-2016).
- Software Freedom Day @ Alexandria University 2009 Team Leader.
- Campus Ambassador of *Sun Microsystems* in Alexandria University (2008-2009).
- Class Representative of Computer Science Class 2010, Alexandria University (2006-2007).