

Curriculum Vitae
Ahmed Abdelmoamen Ahmed, Ph.D.

Assistant Professor,
Department of Computer Science
Prairie View A&M University
Office Phone: 936-261-9876

SR Collins Building, Room 314
P.O. Box 519 ~ M.S. 2515
Prairie View, TX 77446
Email: amahmed@pvamu.edu

Education

- Ph.D. Department of Computer Science, University of Saskatchewan, Canada. 2012 – 2017
M.S. Faculty of Computers and Information. Cairo University, Egypt. 2009 – 2011
B.S. Faculty of computers and information, Cairo University, Egypt. 2003 – 2007

Experience

- 2017 – Present **Prairie View A&M University**
Assistant Professor: Teaching undergraduate and graduate level courses; Conducting research and advising graduate students.
- 2012 – 2017 **University of Saskatchewan**
Research Assistant: Theoretical and experimental study of mobile distributed services.
Sessional Lecturer: Winter 2017. CMPT 100 Introduction to Computing.
- 2007 – 2012 **Cairo University**
Research Assistant: Improving the security of routing protocols in Mobile Ad-hoc Networks.
Instructor: Taught a few courses in the area of Computer Networks.

Research Interests

My research interests include the fields of parallel and distributed systems; Big-Data Analytics; Mobile Sensing with applications in domains such as Internet of Things (IoT) and Crowd-Sensing.

Publications

- **Ahmed Abdelmoamen** and Nadeem Jamali. “[A Model for Representing Mobile Distributed Sensing-Based Services.](#)” In Proceedings of the IEEE International Conference on Services Computing (SCC’18), pages 282–286, San Francisco, USA, 2018.
- **Ahmed Abdelmoamen.** “[A Modular Approach to Programming Multi-Modal Sensing Applications.](#)” In Proceedings of the IEEE International Conference on Cognitive Computing (ICCC ’18), pages 91–98, San Francisco, USA, 2018.
- **Ahmed Abdelmoamen,** Dezhong Wang, Nadeem Jamali. “[Approaching Actor-Level Resource Control for Akka.](#)” In Proceedings of the IEEE Workshop on Job Scheduling Strategies for Parallel Processing (JSSPP ’18), pages 1–15, Vancouver, Canada, 2018.
- **Ahmed Abdelmoamen,** Nadeem Jamali. “[An Actor-Based Middleware for Crowd-Sourced Services.](#)” *EAI Endorsed Transactions*, vol. 17, pages 1–15, 2017.
- **Ahmed Abdelmoamen,** Nadeem Jamali. “[Opportunistic Sharing of Continuous Mobile Sensing Data for Energy and Power Conservation.](#)” *IEEE Transactions on Services Computing (TSC)*, vol. PP, no. 99, pp. 1–14. doi: 10.1109/TSC.2017.2705685, 2017.

- **Ahmed Abdelmoamen**, Dezhong Wang, Nadeem Jamali. “[Supporting Resource Control for Actor Systems in Akka](#).” In *Proceedings of the IEEE International Conference on Distributed Computing Systems (ICDCS '17)*, pages 2642–2645, Atlanta, USA, 2017. (Best Poster Award)
- **Ahmed Abdelmoamen**, Nadeem Jamali. “[Supporting Resource Bounded Multitenancy in Akka](#).” In *Proceedings of the ACM SIGPLAN Conference Companion on Systems, Programming, Languages and Applications (SPLASH '16)*, pages 33–34, Amsterdam, The Netherlands, 2016.
- **Ahmed Abdelmoamen**, Nadeem Jamali. “[CSSWare: A middleware for scalable mobile crowd-sourced services](#).” In *Proceedings of the EAI International Conference on Mobile Computing, Applications and Services (MobiCASE '15)*, pages 181–199, Berlin, Germany, 2015.
- **Ahmed Abdelmoamen**, Nadeem Jamali. “[ModeSens: An Approach for Multi-Modal Mobile Sensing](#).” In *Proceedings of the ACM SIGPLAN Conference Companion on Systems, Programming, Languages and Applications (SPLASH '15)*, pages 40–41, Pittsburgh, USA, 2015.
- **Ahmed Abdelmoamen**, Nadeem Jamali. “[CSSWare: An Actor-Based Middleware for Mobile Crowd-Sourced Services](#).” In *Proceedings of the EAI International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous '15)*, pages 287–288, Coimbra, Portugal, 2015.
- **Ahmed Abdelmoamen**, Nadeem Jamali. “[ShareSens: An Approach to Optimizing Continuous Mobile Sensing Workloads](#).” In *Proceedings of the IEEE International Conference on Mobile Services (MS '15)*, pages 89–96, New York, USA, 2015.
- **Ahmed Abdelmoamen** and H. Hamza. “[On Securing Atomic Operations in Multicast AODV](#).” *International Journal of Mobile and Adhoc Network (AHSWN)*, vol. 28, pages 137–159, 2015.
- **Ahmed Abdelmoamen** and Nadeem Jamali. “[Coordinating Crowd-Sourced Services](#).” In *Proceedings of the IEEE International Conference on Mobile Services (MS '14)*, pages 92–99, Alaska, USA, 2014.
- **Ahmed Abdelmoamen** and Nadeem Jamali. “[An Actor-Based Approach to Coordinating Crowd-Sourced Services](#).” *International Journal of Services Computing (IJSC)*, vol. 2, pages 43–55, 2014.
- **Ahmed Abdelmoamen**, H. Hamza, and I. Saroit. “[Secure Multicast Routing Protocols in MANETs](#).” *International Journal of Communication Systems, John Wiley*, vol. 27, pages 2808–2831, 2013.
- **Ahmed Abdelmoamen**, H. Hamza, and I. Saroit, “[New attacks and efficient countermeasures for multicast aodv](#).” In *Proceedings of the international conference on High-Capacity Optical Networks and Enabling Technologies (HONET '10)*, pages 51–57, Cairo, Egypt, 2010.
- **Ahmed Abdelmoamen**, H. Hamza, and I. Saroit, “[A survey on security-enhanced multicast routing protocols in Mobile Ad hoc Networks](#).” In *Proceedings of the International Conference on High-Capacity Optical Networks and Enabling Technologies (HONET '10)*, pages 262–268, Cairo, Egypt, 2010.

Synergistic Activities

Awarded Grants

- Principal Investigator. \$20,000. “An Approach for Supporting Distributed Sensor-Based Services.” Awarded by Prairie View A&M University under the Faculty Research Development Grant Program, January 2018–August 2018.
- Principal Investigator. \$5,000. “Building a Scout Drone for Corrasion Detection in Pipeline Systems.” Awarded by Bechtel Corporation. May 2018– December 2018.
- Principal Investigator. \$5,000. “Designing of a Managed Inventory Tag Generation Web Application.” Awarded by Bechtel Corporation. May 2018– December 2018.

Student Awards

- June 2017: Best Poster Award at ICDCS 2017
- May 2017: IEEE Travel Award to attend ICDCS 2017
- September 2016 – August 2017: Teacher Scholar Doctoral Fellowship (TSDF) valued at \$20,000
- October 2015: University of Saskatchewan Student Travel Award to attend SPLASH 2015 conference

- September 2015 – August 2016: Saskatchewan Innovation and Opportunity Scholarship valued at \$20,000
- September 2012 – August 2015: Department Teaching Scholarship (DTS) valued at \$60,000

Program Committee Member For:

- IEEE/ACM International Conference on Big Data Computing (BDCAT)
- IEEE/ACM International Conference on Utility & Cloud Computing (UCC)
- IEEE International Conference on Mobile Services (MS)

Reviewing Technical Articles For:

- International ACM Workshop on Programming Based on Actors, Agents, and Decentralized Control (AGERE)
- International ACM Conference on Autonomous Agents and Multiagent Systems (AAMAS)
- International IEEE Conference on Mobile Services (MS)
- Journal of Autonomous Agents and Multi-Agent Systems
- International IEEE Workshop on Internet of Things Technologies (IoTT)
- International Conference on Parallel and Distributed Systems (ICPADS)
- International Conference on Mining Software Repositories (MSR)
- International Conference on Program Comprehension (ICPC)

Master's Degree Advisor

Currently advising several graduate students for their final master projects at Prairie View A&M University.