

## MOHAMED ASLAN ABDELSALAM

Computer Engineer  
Ottawa, ON, Canada

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## OBJECTIVE

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I am seeking an industrial research-oriented position at a reputable company, preferably in a research and development laboratory. I am mostly interested in exploring the areas of computer networks and systems software. Please contact me for a more detailed version of my resume.

## EDUCATION

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- **Ph.D. Systems and Computer Engineering** 2018  
Carleton University Ottawa, ON, Canada
- **M.Sc. Computer Engineering** 2012  
Arab Academy for Science and Technology Alexandria, Egypt
- **B.Sc. Computer Engineering** 2008  
Arab Academy for Science and Technology Alexandria, Egypt

## WORK EXPERIENCE

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- **Software Engineer (5G networks)** Aug. 2022 — Present  
Dell Technologies Inc. Ottawa, ON, Canada
- **Research Associate (Postdoctoral)** Jan. 2020 — Oct. 2020  
Carleton University Ottawa, ON, Canada
- **Research Associate (Postdoctoral)** Oct. 2018 — Jul. 2019  
Carleton University Ottawa, ON, Canada
- **Contract Instructor** Sept. 2017 — Dec. 2017  
Carleton University Ottawa, ON, Canada
- **Research and Teaching Assistant** Jan. 2013 — Dec. 2017  
Carleton University Ottawa, ON, Canada
- **Assistant Lecturer** Jun. 2012 — Jan. 2013  
Arab Academy for Science and Technology Alexandria Egypt
- **Teaching Assistant** Sept. 2008 — May 2012  
Arab Academy for Science and Technology Alexandria Egypt

## COURSES TAUGHT (as an Instructor)

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- Carleton University
  - NET4005 - Networked Applications (Fall 2017)

## COURSES TAUGHT (as a TA)

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- Carleton University
  - NET4005 - Networked Applications
  - SYSC3006 - Computer Organization
  - SYSC3601 - Microprocessor Systems
  - SYSC2006 - Foundations of Imperative Programming
- Arab Academy for Science and Technology
  - Structure Programming
  - Digital Logic Design
  - Data Acquisition Systems
  - Assembly Language
  - Operating Systems
  - Advanced Computer Networks
  - Introduction to Computers
  - Programming Application
  - Object-Oriented Programming
  - Computer Graphics
  - Computing Algorithms
  - Computer Networks

## LIST OF PUBLICATIONS

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The number of citations and other metrics could be found at my Google Scholar profile:  
<https://scholar.google.ca/citations?user=LbnNTvsAAAAJ>

## JOURNALS

- **Mohamed Aslan**, and Ashraf Matrawy, “On Maintaining an Up-to-date Global Network View in Software-Defined Clouds,” *IEEE transactions on Cloud Computing* (2019). Accepted for publication. <http://arxiv.org/abs/1612.04944>.
- **Mohamed Aslan**, and Ashraf Matrawy, “On the Impact of Network State Collection on the Performance of SDN Applications,” *IEEE Communications Letters* **20**(1), pp. 5-8, IEEE (2016). <http://ieeexplore.ieee.org/document/7314891/>.

## CONFERENCES AND WORKSHOPS

- **Mohamed Aslan**, and Ashraf Matrawy, “SDN-VSA: Modeling and Analysis of SDN Control Applications using Vector Spaces” in *Proc. of the IEEE International Conference on Communications (ICC 2018)*. QoS, Reliability, and Modeling Symposium. Kansas City, MO, USA. An errata document was issued for this paper and is available on the authors’ websites.
- **Mohamed Aslan**, and Ashraf Matrawy, “Could Network View Inconsistency Affect Virtualized Network Security Functions?” in *Proc. of the 3rd IEEE Workshop on Security and Privacy in the Cloud (SPC 2017)*. Las Vegas, NV, USA.
- **Mohamed Aslan**, and Ashraf Matrawy, “A Clustering-based Consistency Adaptation Strategy for Distributed SDN Controllers” in *Proc. of the IEEE Workshop on Smart network Technologies and Edge computing for the Tactile Internet (STET 2018)*. Montreal, QC, Canada.
- **Mohamed Aslan**, and Ashraf Matrawy, “Adaptive Consistency for Distributed SDN Controllers” in *17th International Network Strategy and Planning Symposium (Networks 2016)*. Montreal, QC, Canada.
- Alejandro De Gante, **Mohamed Aslan**, and Ashraf Matrawy, “Smart wireless sensor network management based on software-defined networking” in *27th Biennial Symposium on Communications (QBSC)*, pp. 71-75, IEEE (2014). Kingston, ON. **This is a highly-cited paper with more than 250 citations according to Google Scholar.**
- Sherin M. Youssef, M. Abou El-Nasr, and **Mohamed Aslan**, “WiEmu: The Design and Implementation of a Flexible Agent-based Scalable Network Emulator for Wireless Sensor Networks” in *The 2012 International Conference on Network and Computer Science (ICNCS 2012)*. Hong Kong, China.

## References

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References and letters of recommendation are available upon request.