

# Ammar M.Odeh

Ph.D. in Computer Science and Engineering Department

**Current Position:** - Assistant Professor at Princess Sumaya University for Technology  
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## Summary

In May 2015 I finished my Ph.D. Degree in [Computer science and Engineering](#) with a concentration in Computer Security (Steganography) from [University of Bridgeport](#). In December 2005, I completed my M.S. degree in Computer Science with a concentration in Reverse software Engineering and Computer Security from the [University of Jordan, College of King Abdullah II School for Information Technology \(KASIT\)](#). In 2002, I finished B.Sc. Degree in Computer Science and applications, from the [Hashemite University, Prince Al-Hussein Bin Abdullah II for Information Technology](#). In 2003 I worked as Lab Supervisor in Philadelphia University (Jordan) for two years. After that, I worked as Lecturer in Philadelphia University (Jordan) until 2009. Then I worked in Sur College of Applied Science for 2 years. To improve my skills I applied to the Ph.D. program in University of Bridgeport 2011. During the Ph.D. period, I worked as research Assistant, Teaching Assistant, and Instructor. In 2015 I started my new job with University of Al Maarefa as Assistant Professor, in 2019 I started my new job at Princess Sumaya University for Technology. I am very active in research, In addition, I am involved in the academic community, outreach activities and student recruiting and advising.

## Education

<i>Aug 2011 – May 2015</i>	<b>University of Bridgeport</b> Doctor of Computer Security, Computer Science and Engineering CT, United States
<i>Sep 2004 – Aug 2006</i>	<b>University of Jordan</b> Master of Computer Science, Computer science Amman, Jordan
<i>Sep 1999 – Jul 2002</i>	<b>Hashemite University</b> Bachelor of Technology, Computer Science Zarqa, Zarqa, Jordan
<i>Sep 1998 – Sep 1999</i>	<b>Certificate of Jordanian General Secondary Education,</b> Zarqa, Jordan.

## Primary Teaching and Research Interests

- Unicode Steganography
- Computer Security
- Wireless network

### Specific Research Interests

- Human Computer Interaction.
- Enhancement computer Security for data translation over wireless network
- Text Steganography

### Specific Teaching Interests

- Programming Languages
- Data Communications and Networking
- Operating Systems
- Information Retrieval
- Computer Security

### Experience and Tasks

- Assistant Professor Department of Computer Science, Princess Sumaya University for Technology, Amman Jordan, Sept 2019 Until now
- Assistant Professor Department of Computer Science and Information System, University of Al Maarefa , KSA, May 2015 – Sept 2019
  - Develop and implement innovative instructional methods.
  - Develop professional logistics to improvise student performance.
  - Guide, lead and mentor students in research projects.
  - Evaluate, monitor and mentor student academic progress.
  - Create, innovate and implement career-enhancement programs and activities.
  - Supervise and support teaching assistants.
  - Participate in departmental and college activities.
  - Serve and support functional activities of departmental committees.
- Graduate Assistant/Research Assistant / Webmaster, University of Bridgeport, Bridgeport, CT 08/2011 – 05/2015.
  - Graduate Teaching Assistants lead quiz, discussion, or laboratory sections, serve as a class assistants, or provide supervised teaching.
  - Assist the Supervisor and Senior Research Associate in carrying out the research project. The Research Assistant will be responsible for tool development and the design, collection, and analysis of evaluative project data. The research assistant will work closely with the Industry Partners in the project. The Research Assistant will also be responsible for writing scientific reports, coordinating research activities, participating in the definition of research directions and any other research activities as required.
  - Responsible for maintaining websites. Ensure sites are functioning properly and are available to users. Tests speed of access and improve upon loading speed.
- Instructor, Sur College of Applied Science, Oman, 08/2009 until 08/2011
  - Fundamentals of AI
  - Web Concepts and programming
  - for advanced C++ programming
  - Advance Database
  - Network

- Wireless Network
- Instructor and coordinator, Philadelphia University, Jordan 09/2006 until 08/2009
  - Skills (1) which contains MS applications (Word, Excel, PowerPoint, Internet).
  - Skills (2) Visual Basic, Front page, SPSS, the Internet.
  - skills (2) for scientific faculties (C++)Programming fundamentals
  - Concepts of Programming Languages.
  - Information retrieval system.
- Computer Lab Supervisor, Philadelphia University, Jordan 01/2004 until 09/2006
  - Develops policies and procedures to ensure efficient lab operations and quality service.
  - Make decisions regarding technical and physical changes to the lab
  - Maintain supplies for lab equipment (e.g., paper, printer toner) and maintain working order of lab equipment.
  - Assist student and faculty/staff users regarding the use of supported software applications and hardware.
  - Assist departmental staff regarding office computer use/problems.
  - Coordinate and/or perform software installations, diagnostics, and repairs.

### Academic communities

- Member in academic guidance committee, Faculty of Information Technology, Philadelphia University.
- Member in graduation projects committee, Computer Science & Computer Information Systems Departments, Faculty of Information Technology, Philadelphia University.
- Member in Quality Assurance committee, Faculty of Information Technology, Philadelphia University.
- Member in library committee, Faculty of Information Technology, Philadelphia University.
- Member in developing a syllabus for IT courses, Faculty of Information Technology, Philadelphia University.
- Member in practical training committee, Faculty of Information Technology, Philadelphia University.
- Member in scientific committee, Faculty of Information Technology, Philadelphia University.

### AWARDS AND MEMBERSHIPS

- Member of IEEE Communications Society
- Member of IEEE Computer Science Society
- Member of UPE
- Received TA Full Graduate Scholarship Award from Computer Science Dept. of University of Bridgeport for Jan. 2012- May 2015
- UPE Award 2014 (750.00 \$)
- Member of ACM
- Member of KPK

## Publications

### Book Chapters

**Ammar Odeh**, Khaled Elleithy, Eman Abdelfattah, Miad Faezipour: *Novel Steganography over HTML*. New Trends in Networking, Computing, Informatics, Systems Sciences, and Engineering, Edited by Khaled Elleithy, Tarek Sobh, 01/2014: chapter Novel Steganography over HTML Code; Springer., ISBN: 978-1-4614-3558-7

### Journal Publications

**Ammar Odeh**: *Novel Genetic Algorithm for Early Prediction and Detection of Lung Cancer*. 01/2017; 5(2):15., DOI:10.11648/j.jctr.20170502.13

**Ammar Odeh**, Ibrahim Al Atoum, Bilal AL-Bataineh: *Hook Replacement Method for Mobile Receiver in the Soft Handover Region*. Journal of Mathematical Sociology 01/2017; 2(1):1-5.

Andre Santos, Edson Pinheiro, Rainara Mateus, **Ammar Odeh**, Eman Abdel Fattah: *Analysis of video streaming using LTE technology*. DOI:10.1109/LISAT.2015.7160213

Muneer Alshowkan, Christian Bach, **Ammar Odeh**: *Security of Wireless Sensor Networks in Biomedical*.

B.Baatiah, C.Bach, **A.Odeh**: *Network Overview*.

**A.Odeh**, A.Aboshgifa, C.Bach: *Overview for Cryptography and Steganography*.

W.Elmannai, **A.Odeh**, C.Bach: *Academic Use of Online Social Networks*.

**Ammar Odeh**: *Academic Use of Online Social Networks*.

**Ammar Odeh**, Eman AbdelFattah, Muneer Alshowkan: *Performance Evaluation of AODV and DSR Routing Protocols in MANET Networks*. 08/2012; 3(4).

**Ammar Odeh**: *Performance Evaluation of AODV and DSR Routing Protocols in MANET Networks*. DOI:10.5121/ijdps.2012.3402

Muneer Alshowkan, Eman Abdel Fattah, **Ammar Odeh**: *Performance Evaluation of DYMO, AODV and DSR Routing Protocols in MANET*. International Journal of Computer Applications 07/2012; 49(11-11):29-33., DOI:10.5120/7673-0965

**Ammar Odeh**, Khaled Elleithy: *Steganography in Arabic Text Using Zero Width and Kashidha Letters*. 07/2012; 4(3):1-11., DOI:10.5121/ijcsit.2012.4301

Rebaz Maarouf, Eman AbdelFattah, Muneer Alshowkan, **Ammar Odeh**, Abdul Razaque: *Deployment of Law Enforcement Department Using Manhattan Mobility Model over Hybrid Network*.

### Conference Proceedings

**Ammar Odeh**, Eman Abdelfattah: *Quantum min / max algorithms based on qubits {00, 11}*. 2017 IEEE Long Island Systems, Applications and Technology Conference (LISAT); 05/2017, DOI:10.1109/LISAT.2017.8001972

- Ammar Odeh**, Eman Abdelfattah: *Quantum sort algorithm based on entanglement qubits {00, 11}*. 2016 IEEE Long Island Systems, Applications and Technology Conference (LISAT); 04/2016, DOI:10.1109/LISAT.2016.7494107
- Ammar Odeh**, Khaled Elleithy, Miad Faezipour, Eman Abdelfattah: *Highly Efficient Novel Text Steganography Algorithms*. IEEE Long Island Systems, Applications and Technology LISAT2015, Long Island, NY; 05/2015, DOI:10.1109/LISAT.2015.7160209
- Ammar Odeh**, Khaled Elleithy, Miad Faezipour: *Fast Real-Time Hardware Engine for ZWC Text Steganography*. ICAT'14 International Conference on Advanced Technology & Science, Antalya, Turkey; 08/2014, DOI:10.13140/2.1.2687.9366
- Ammar Odeh**, Khaled Elleithy, Miad Faezipour: *A Reliable and Fast Real-Time Hardware Engine for Text Steganography*. IEEE LISAT 2014 Long Island Systems, Applications and Technology, Long Island, New York, May 2, 2014.; 05/2014
- Ammar Odeh**, Khaled Elleithy, Miad Faezipour: *Fast Real Hardware Engine for Multipoint Text Steganography*. 2014 IEEE Long Island Systems, Applications and Technology Conference, Farmingdale State College - State University of New York.; 05/2014, DOI:10.1109/LISAT.2014.6845184
- Ammar Odeh**, Khaled Elleithy, Miad Faezipour: *Steganography in Text by Using MS Word Symbols*. The 2014 Zone 1 Conference of the American Society for Engineering Education, Bridgeport, Connecticut, U.S.A; 04/2014
- Ammar Odeh**, Khaled Elleithy, Miad Faezipour, Eman Abdelfattah: *Novel Steganography over HTML Code*. 9th Annual International Joint Conferences on Computer, Information, Systems Sciences, & Engineering (CISSE'14.); 12/2013, DOI:10.1007/978-3-319-06773-5\_81
- Ammar Odeh**, Khaled Elleithy, Muneer Alshowkan, Eman Abdelfattah: *Quantum Key Distribution by Using Public Key Algorithm(RSA)*. 2013 Third International Conference on Innovative Computing Technology (INTECH), London, United Kingdom; 08/2013, DOI:10.1109/INTECH.2013.6653697
- Ammar Odeh**, Khaled Elleithy, Marwah Almasri, Abrar Alajlan: *Sorting N Elements Using Quantum Entanglement Sets*. 2013 Third International Conference on Innovative Computing Technology (INTECH), London, United Kingdom; 08/2013, DOI:10.1109/INTECH.2013.6653693
- Muneer Alshowkan, Khaled Elleithy, **Ammar Odeh**, Eman Abdelfattah: *A New Algorithm for Three-Party Quantum Key Distribution*. 2013 Third International Conference on Innovative Computing Technology (INTECH), London, United Kingdom; 08/2013, DOI:10.1109/INTECH.2013.6653692
- Ammar Odeh**, Khaled Elleithy, Miad Faezipour: *Steganography in Arabic Text Using Kashida Variation Algorithm (KVA)*. 2013 IEEE Long Island Systems, Applications and Technology Conference, Farmingdale State College - State University of New York; 05/2013, DOI:10.1109/LISAT.2013.6578239
- Ramadhan J. Mstafa, Abdalraouf Alarabe, Eman Abdelfattah, **Ammar Odeh**, Muneer Alshowkan: *Analysis of Routing Protocols over VANET*. 2013 ASEE American Society for Engineering Education Conference, Norwich University; 03/2013, DOI:10.13140/RG.2.1.1319.1525
- Ammar Odeh**, Khaled Elleithy, Miad Faezipour: *Text Steganography Using Language Remarks*. The American Society of Engineering Education, ASEE 2013, Northfield, VT, USA.; 03/2013

- Ammar Odeh**, Khaled Elleithy: *Steganography in Text by Merge ZWC and Space Character*. 28th International Conference on Computers and Their Applications, CATA-2013, Honolulu, Hawaii, USA.; 03/2013
- Ammar Odeh**, Khaled Elleithy: *Steganography in Arabic Text Using Full Diacritics Text*. 25th International Conference on Computers and Their Applications in Industry and Engineering (CAINE-2012), New Orleans, Louisiana, USA; 11/2012
- Ammar Odeh**, Aladdin Alzubi, Qassim Bani Hani, Khaled Elleithy: *Steganography by Multipoint Arabic Letters*. 2012 IEEE Long Island Systems, Applications and Technology Conference, Farmingdale State College - State University of New York; 05/2012
- Ammar Odeh**, Aladdin Alzubi, Qassim Bani Hani, Khaled Elleithy: *Steganography by multipoint Arabic letters*. Systems, Applications and Technology Conference (LISAT), 2012 IEEE Long Island; 05/2012, DOI:10.1109/LISAT.2012.6223209
- A. M. Odeh**, M. Faezipour: *Improving Wireless Infrastructure Networks Security by Access Point Checking*. ASEE Northeast Regional Conference; 04/2012
- A. M. Odeh**, Miad Faezipour: *Access Point Checking to Improve Security in Wireless Infrastructure Networks*. CISSE Conference, IEEE Connecticut Section; 12/2011, DOI:10.1007/978-1-4614-3535-8\_63