Ibrahim AbuAlhaol

PhD | MEng | SMIEEE

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Summary

Cyber-Security R & D engineer working on operationalizing **collective intelligence** with **artificial intelligence** to improve **cyber-security** | Hands-on experience in machine learning using Python and MATLAB | Hands-on experience in data analysis using R and Python | Data visualization using Visjs and D3 JavaScript open source libraries | Digital signal processing to secure cyber physical systems | Design and development of 4G Wireless systems | PHY/MAC layers simulation using C, C++, and MATLAB.

Education

2014–2015 **M.Eng. in Technology Innovation Management**, *Carleton University*, Canada, *GPA:11/12*.

2005–2008 **Ph.D. in Electrical Engineering**, *University of Mississippi*, United States, *GPA:4.0/4.0*.

2002–2004 **M.Sc. in Electrical Engineering**, *Jordan University of Science & Technology*, Jordan, *GPA:84.0%*.

1995–2000 **B.Sc. in Electrical Engineering**, *Jordan University of Science & Technology*, Jordan, *GPA:84.4%*.

Experience

2015-Present **Cyber-Security R & D Engineer**, *VENUS Corporation*, Ottawa, Canada.
Collective Intelligence | Machine Learning | Data Mining | Cyber Physical Systems | Intrusion Detection | Visualization with Visjs and D3 | Data Analysis with R, Python, and MATLAB.

2014-2015 **Cyber-Security Researcher**, *Carleton University*, Ottawa, Canada.
D2D Wireless Security | Security Scoring Measure | RSA Key exchange | AES Encryption | MATLAB.

2009-2014 **Assistant Professor**, *Khalifa University*, Sharjah, United Arab Emirates.
Cross-Layer Design for Secure Land Transport Systems | VANETs for Intelligent Transportation Systems | Professional Engineering | Probability and Statistics | Wireless Communications | Modulation and Coding | Digital Communications.

2008-2009 **Wireless System Engineer**, *Broadcom Corporation*, San Diego, USA.
3G/4G System Design | RF Compliance | 3GPP Standard | Bluetooth | WLAN.

2008-2008 **System Engineer Intern**, *Qualcomm Corporation*, San Diego, USA.
4G Wireless Network Analysis and Simulation | GSM | HSPA | WiMAX | LTE.

2005-2008 **Research Assistant**, *University of Mississippi*, Oxford, USA.
Cooperative (UAV) network | Transmission rate in MIMO/OFDM systems | MATLAB | C++.

Publications

Statistics: **3** Book chapters | **5** Journals | **33** Conferences | **146** Google Scholar citations | h-index = **6**

Keywords: Intrusion detection | Security | Privacy | VANET | Physical layer attacks | Resource allocation | Cooperative relays | Wireless systems | MIMO-OFDM | UAVs | Optimization | Device-to-Device | Non-coherent detection | Fairness | Multi-Relay | BER Performance | Fading Channels | Wireless sensors Network | Equalization | Capacity analysis | Cooperative Coding | Finite mixture modeling.

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