



**Dr. Adel Dabash A. Rajab**  
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## PERSONAL STATEMENT:

Dr. Adel Rajab's research interests involve Neural Networks, Network Security, Optical Burst Switching Network, Machine Learning, Wireless Sensor Networks, and Cryptography

## EDUCATION AND QUALIFICATION:

- ❖ **Ph.D. in Computer Science and Engineering**  
UNIVERSITY OF SOUTH CAROLINA – USA 2017
- ❖ **Master of Engineering in Computer Science and Engineering**  
UNIVERSITY OF SOUTH CAROLINA – USA 2007
- ❖ **Bachelor of Science in Computer Information Systems**  
UNIVERSITY OF SOUTH CAROLINA – USA 2005

## WORK EXPERIENCES:

- ❖ **Vice Dean of Graduate Studies for Academic Affairs**  
Najran University - Saudi Arabia – KSA, 24/11/2019 to – present
- ❖ **Managing and supervising the website of Graduate Studies**  
Najran University - Saudi Arabia – KSA, 24/11/2019 to – present
- ❖ **Managing and supervising the website of College of Computer Science and Information Systems**  
Najran University - Saudi Arabia – KSA, 11/05/2018 to – present
- ❖ **Assistant Professor-College of Computer Science & Information Systems**  
Najran University - Saudi Arabia – KSA, 2017 to-present
- ❖ **Lecturer – College of Computer Science & Information Systems**  
Najran University - Saudi Arabia – KSA, 2011 to-2012
- ❖ **Research Assistant - Computer Science & Engineering Department**  
University of South Carolina – USA, Fall 2009, Spring 2010.
  - Work on project using C++ for prediction of signal peptides and signal anchors by using different methods like hidden Markov model, probabilistic classification, artificial intelligence technology, support vector machine.
- ❖ **Research Assistant - Computer Science & Engineering Department**  
University of South Carolina – USA, Spring 2009
  - Operate and develop new application for a hybrid simulation for vehicle-to vehicle networks, which developed for efficient broadcast of safety alert, real-time traffic congestion probing and for distribution of on-road multimedia content.

## TAUGHT COURSES:

Network Security (Master Program).

Computer Security.

Programming Language (Java).

## PROFESSIONAL SKILLS:

- ❖ Proficiency in InDesign, photoshop and Paint.net
- ❖ Proficiency in programming languages: C, C++, Java, ASP, COBOL, HTML, Visio, JavaScript, and VB.net.
- ❖ Operating systems: Windows and UNIX.
- ❖ Proficiency in PC repairs and maintenance.

## PUBLICATIONS:

1. Bilal Chandio, Asadullah Shaikh, Maheen Bakhtyar, Mesfir Alrizq, Junaid Baber, Adel Sulaiman, Adel Rajab and Waheed Noor. Sentiment Analysis of Roman Urdu on E-Commerce Reviews using Machine Learning. Computer Modeling in Engineering & Sciences. pp. 1-25, Online First, doi:10.32604/cmes.2022.019535. Impact Factor 1.593, 2022.
2. Rajab, A. (2022). Fault Tolerance Techniques for Multi-Hop Clustering in Wireless Sensor Networks. Intelligent Automation & Soft Computing, 32(3), 1743–1761.
3. Mohammad Tabrez Quasim, Asadullah Shaikh, Mohammad Meraj, Adel Rajab, Sultan Almakdi and Ali Alqahtani. Advanced Fault Detection and Recovering Approach for Clustering based Wireless Sensor Networks. Accepted in Soft Computing by Springer. Impact Factor 3.643, 2021.
4. Hajira Saleem, Faisal Riaz, Asadullah Shaikh, Khairan Rajab, Adel Rajab, Muhammad Akram and Mana Saleh Al Reshan. Optimizing Steering Angle Predictive Convolutional Neural Network for Autonomous Car. Computers, Materials & Continua, vol. 71, no.2, pp.2285-2302, doi:10.32604/cmc.2022.022726. ISI Thomson Reuters, Impact Factor, 3.772, 2021.
5. A. Rajab, “Genetic Algorithm-Based Multi-Hop Routing to Improve the Lifetime of Wireless Sensor Networks”, Eng. Technol. Appl. Sci. Res., vol. 11, no. 6, pp. 7770–7775, Dec. 2021.
6. Adel Rajab, Sehrish Aqeel, Mana Saleh Al Reshan, Awais Ashraf, Sultan Almakdi, Khairan Rajab "Cryptography based Techniques of Encryption for Security of Data in Cloud Computing Paradigm" International Journal of Engineering Trends and Technology 69.10(2021):1-6.
7. Adel D. Rajab (2020) “CONTENTION RESOLUTION BASED ON NODE TRUST CLASSIFIER TO GUARANTEES QUALITY OF SERVICE IN OPTICAL BURST SWITCHED NETWORK”, International Journal of Advanced Computer Systems and Software Engineering, 1(1), pp. 24-32. Available at: <https://journal.scientiaca.org/index.php/ijacsse/article/view/244> (Accessed: 15 October 2021).
8. Adel. Rajab, “Detecting BHP Flood Attacks in OBS Networks: A Machine Learning Prospective.” International Journal of Science and Applied Information Technology, Volume 8, No.6, November –December (2019).
9. A. Rajab, C.T. Huang, M. Alshargabi, and J. Cobb, “Decision tree rule learning approach to counter burst header packet flooding attack in Optical Burst Switching Network.” Optical Switching and Networking, Vol 29, pp. 15–26, Mar 12 (2018).

10. Rajab, A., (2017) Burst Header Packet (BHP) flooding attack on Optical Burst Switching (OBS) Network Data Set. University of California Irvine Data Repository, 2017.
11. A. Rajab, C.-T. Huang, M. Al-Shargabi, and J. Cobb, "Countering burst header packet flooding attack in optical burst switching network," in Proceedings of the International Conference on Information Security Practice and Experience (ISPEC), pp. 315–329, Springer, Melbourne, Australia, December 2016.

Accepted:

1. Muhammad Shahzeb Ali, Ali Alqahtani, Ansar Munir Shah, Adel Rajab, Mahmood ul Hassan, Asadullah Shaikh, Khairan Rajab and Basit Shahzad. Improved-Equalized Cluster Head Election Routing Protocol for Wireless Sensor Networks. Accepted in Computer Systems Science and Engineering. ISI Thomson Reuters, Impact Factor, 1.486, 2022.
2. Adel Rajab. Energy-Efficient Static Data Collector-based Scheme with UAV-Enabled Wireless Power Transfer in Smart Cities. Accepted in Computer Systems Science and Engineering, Impact Factor, 3.772, 2022.

#### **HONORS/AWARDS:**

- ❖ Dean's List (Spring 2001-Spring 2005).
- ❖ Scholarship Award, Computer Science Department 2001, Spring 2002.