جامعة عجلون الوطنية
Ajloun National University

ATEF A. M. OBEIDAT

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PROFILE

Associate Professor of Information Technology with a Ph.D. in Computer Science and 25 years of academic experience. A proven leader in curriculum development, having designed and delivered over 35 courses in Cybersecurity, Networks, and Programming. Author of more than 30 peer-reviewed articles, demonstrating a strong record of scholarly publication and research expertise.

Personal Data

Date of birth:01/09/1969
Nationality: Jordanian

EDUCATION

- **PH.D –** Networks, Novosibirsk State Technical University, Novosibirsk, Russia, January (2010)
- **Master –** Computer Science, the University of Jordan, Amman, Jordan, (2001).
- **Bachelor** - Computer Science, Yarmouk University, Irbid, Jordan, (1991).

WORK EXPERIENCE

1. **Associative professor**: Department of IT, Al-Huson university College, Al-Balqa Applied University, Al-Huson, Irbid, Jordan, Jan. 2018 Until Now.

a. Lecturer of computer science in the Information Technology Department from January 2018 until 2019.
b. Lecturer of computer science in the Computer Information Systems Department at Jordan University of Science and Technology (JUST) from January 2019 until 2020.
c. Lecturer of computer science in the Information Technology Department from January 2020 until 2021.
D. Head of Information Technology Department: from September 2021 until September 2023.
E. Lecturer of computer science in the Information Technology Department from January 2023 until now.

2. **Assistance professor**: Department of Information Technology, Al-Huson university College, Al-Balqa Applied University from Feb. 2010 until Jan. 2018.

- Head of Information Technology Department: from September 2011 until September 2014.
- Lecturer of computer science in the IT Department from September 2014 until September 2015.
- Head of IT Department: from September 2015 until September 2016.
- Lecturer of computer science in the IT Department from September 2016 until January 2018.

3. **Lecturer**: Al-Huson University College, Al-Huson –Jordan, from 26\8\1995 until Dec. 2009.

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SKILLS

- Subject Matter Expertise
- Teaching and Instruction Proficiency
- Research Capabilities
- Effective Communication Arts
- Academic Mentoring Ability
- Technological Tool Mastery
- Keeping Pace with Ongoing Developments

Languages

Arabic, Russian, English.

TEACHING EXPERIENCE

1. Computer security
2. Python programming language
3. Special topics (distributed systems)
4. The object-oriented programming
5. The data structure
6. The algorithm theory
7. Visual programming for smart devices
8. The database management system
9. Introduction to Computer.
10. web programming
11. Data Communication & Networking
12. Object-Oriented using Java
13. Web application programming
14. Operating system
15. C++ programming language.

PROFESSIONAL ACTIVITIES

- Research Leadership in Cybersecurity & Steganography: Sustained a prolific research program, leading to over 20 peer-reviewed publications in internationally recognized journals and conferences, with a primary focus on network security, intrusion detection, and advanced information hiding techniques.
- Editorial Review & Contribution: Served as a reviewer and contributor for the editorial process of several international journals, including the International Journal of Communication Networks and Information Security (IJCNIS) and the Journal of Computer Science, helping to maintain the quality and integrity of scholarly literature in the field.
- Pioneering Research in Peer-to-Peer Systems Security: Conducted foundational and applied research on security and resource management in decentralized networks, resulting in a series of influential publications on mutual exclusion protocols and botnet detection for P2P systems.
- Development of Novel AI & Machine Learning Algorithms for Security: Spearheaded the application and development of innovative computational intelligence models, including NeuCube algorithms for cloud intrusion detection and hybrid methods combining simulated annealing with Hopfield neural networks for enhanced threat identification.
- International Conference Participation and Presentation: Actively disseminated research findings at numerous international scientific forums, including IEEE-sponsored conferences in Russia (SIBCON, IFOST) and workshops in Moscow and Saint-Petersburg, fostering global academic exchange.
- Cross-Disciplinary Research Initiative: Applied computational intelligence techniques to diverse fields beyond core cybersecurity, including contributions to bio-inspired swarm intelligence frameworks and biomedical problem-solving, showcasing a broad and adaptable research perspective..

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Publications

1.Mohammed J. Bawaneh, Atef A. **Obeidat**, Obaida M. Al-Hazaimeh Malek M. Al-Nawashi, Amaal Rateb Shorman, " An Adaptive Fractal Image Steganography using Mandelbrot and Linear Congruent Generator", International Journal of Communication Networks and Information Security (IJCNIS), accepting for publishing.2023.

2. Almomani, A., Alauthman, M., Albalas, F., Dorgham, O., & **Obeidat**, A. (2020). An online intrusion detection system to cloud computing based on NeuCube algorithms. In Cognitive Analytics: Concepts, Methodologies, Tools, and Applications (pp. 1042-1059). IGI global.

3. **Obeidat**, Atef Ahmed. "Novel Approach for Intrusion Detection Using Simulated Annealing Algorithm Combined with Hopfield Neural Network." International Journal of Communication Networks and Information Security 12.3 (2020): 289-294.

4. Atef **Obeidat**, Mohammed J. Bawaneh, Majd M.Al-kofahi, An Adaptive FLV Steganography Approach Using Simulated Annealing. International Journal of Communication Networks and Information Security (IJCNIS), 2018. 10(1): p. 56-66.

5. Almomani, A., et al., An Online Intrusion Detection System to Cloud Computing Based on Neucube Algorithms. International Journal of Cloud Applications and Computing (IJCAC), 2018. 8(2): p. 96-112.

6. **Obeidat**, A.A., Hybrid Approach for Botnet Detection Using K-Means and K-Medoids with Hopfield Neural Network. International Journal of Communication Networks and Information Security (IJCNIS), 2017. 9(3).

7. **Obeidat**, A.A., Arabic Text Steganography Using Unicode of Non-Joined to Right Side Letters. Journal of Computer Science, 2017. 13(6): p. 184-191.

8. Atef Ahmed Obeidat, M.M.A.-K., Mohammad Jazi Bawaneh and E.S. Hanandeh, A Novel Botnet Detection System for P2P Networks. Journal of Computer Science, 2017. 13(8): p. 329-336.

9. **Obeidat**, A.A. and M.J. Bawaneh, Survey of the P2P botnet detection methods ,International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), olume, 2016. 5.

10. **Obeidat**, A.A. and M.J. Bawaneh, A novel FLV steganography approach using secret message segmentation and packets reordering. Int. J. Res. Comput. Applic. Robot, 2016. 4: p. 44-54.

11. **Obeidat**, A.A., Analysis the P2P botnet detection methods. IPASJ International Journal of Computer Science (IIJCS), 2016. 4(3).

12. Bawaneh, M.J. and A.A. **Obeidat**, A secure robust gray scale image steganography using image segmentation. Journal of Information Security, 2016. 7(03): p. 152.

13. Ammar ALmomani, A.A.**Obeidat**, Obaida M. Al-Hazaimeh, Spam Email Filtering using ECOS algorithms. Indian Journal of Science and Technology, 2015. 8.

14. Mhamad, A., S. Al-omar, and A. **Obeidat**, Influence of traffic prognostic mechanism on quality of adaptive control of switchboard. International Journal of Engineering Science (IJES). Bethesda (USA), 2014. 7(33): p. 1763-1776.

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14. Mhamad, A., S. Al-omar, and A. **Obeidat**, Influence of traffic prognostic mechanism on quality of adaptive control of switchboard. International Journal of Engineering Science (IJES). Bethesda (USA), 2014. 7(33): p. 1763-1776.
15. Hanandeh, E. and A. **Obeidat**, Evaluating and Improving E-Government in Jordan. INTERNATIONAL JOURNAL OF COMPUTERS & TECHNOLOGY, 2013. 10(9): p. 2021-2026.
16. Al-Omar, S. and A. **Obeidat**, Burst Error Correction Method Based on Arithmetic Weighted Checksums. Engineering, 2012. 4(11): p. 768.
17. Gubarev, V. and A. **Obeidat**, Tree-based Mutual Exclusion Algorithm in Peer-to-Peer Systems. Вестник компьютерных и информационных технологий, 2011(2): p. 42-50.
18. Atef **Obeidat**, M.H.E.A. Noise Stable Feed-Forward Neural Networks. in Proceedings of the 12th workshop on computer science and information technologies CSIT2010, Moscow- Saint-Petersburg, Russia,2010. 2010. http://elementy.ru/events/429654.
19. **Obeidat**, A.A. and V.V. Gubarev. Leader election in Peer-to-Peer systems. in Control and Communications, 2009. SIBCON 2009. International Siberian Conference on. 2009. IEEE.
20. **Obeidat**, A. An Efficient Leader Election in Peer-to-Peer Systems. in Параллельные вычислительные технологии (ПаВТ'2009). 2009.
21.**Obeidat**, A.A., et al. Decentralized and fair mutual exclusion protocol in peer-to-peer systems. in The 10Th International Workshop on Computer Science and Information Technologies (CSIT). 2008.
22.**Obeidat**, A.A. and V.V. Gubarev. Developing End-to-End mutual exclusion protocol in Peer-to-Peer systems. in Strategic Technologies, 2008. IFOST 2008. Third International Forum on. 2008. IEEE.
23.**Obeidat**, A., J. Huson, and M. Essai, Noise Stable Feed-forward Neural Networks.
24.Pulsatile Hemodynamic Optimizer (PHO(— A Novel Bio-Inspired Swarm Intelligence Framework for Dynamic Problem-Solving(under process)