# Curriculum Vitae

| C.V. |
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| **Name:** Bilal M. Zahran |
| **Academic Rank:** Assistant Professor |
| **Department:** Computer and Network Engineering |
| **Faculty:** Engineering Technology |
| **Phone no.:** 0777169352-0785284732 |
| **Email: zahranb@bau.edu.jo, zahranb@yahoo.com** |
| **Field of Specialization:** Computer information system |
| **- Major:** Computer information system |
| **- Minor:** Communication Engineering. |
| **Research Interest:**<br>-Artificial intelligence (AI) & Optimization:  Evolutionary computation techniques, Neural networks and Fuzzy logic, Engineering applications of AI<br>-Data mining: Text classification<br>-Digital signal Processing: speech processing, signal detection & image processing<br>- Computer & wireless networking |

| Education | Specialization | Graduation Year | University | Country | Title of the Dissertation |
|-----------|----------------|-----------------|------------|---------|---------------------------|
| **Ph.D.** | Computer Information System | 2009 | Arab Academy for Banking and Financial Sciences. | Jordan | TEXT FEATURE SELECTION USING PARTICLE SWARM OPTIMIZATION ALGORITHM |
| **MSc.** | Communications Eng. | 1999 | University of Jordan | Jordan | ANALYSIS OF VOICED AND UNVOICED STOP CONSONANTS USING WAVELET TRANSFORM |
| **BSc.** | Electrical and Electronic Eng. | 1996 | Middle East Technical Univ. | Turkey | - |

| University Courses Taught: |
|----------------------------|
| Analysis & design of algorithms |
| Artificial intelligence |
| Machine learning |
| Data structures |
| Information Technology |
| Modeling and simulation |
| Engineering mathematics |
| Discrete math |
| Wireless networking |
| Computer network security |
| Digital signal processing |
| Computation theory |
| Operating system |

| **Students Supervision:** |
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| The department (I work in) does not offer doctorate or master's degrees. |
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| **Honors, Academics Awards and Patent:** |
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| **Meeting and Conferences:** |
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| Member of preparatory committee of the activity titled **" Electrical Engineering Days 2016 (JEED2016)**" which held in Amman in 2016 under supervision of Jordan Engineers Association (**JEA)**. |
| Participated in a technical paper which presented in International Conference on Networked Digital Technologies, NDT 2010, Prague, Czech Republic and published in the proceeding: Communications in Computer and Information Science. Paper title: **Genetic Cryptanalysis**. |
| Participated in the activity titled" **Towards an Electronic Arab Municipality"** which held in Amman in 2009 under supervision of League of Arab States**.** Article title: **"Electronic classification of Arabic documents".** |
| Participated in the workshop titled "**Simulation and Modeling (MESM'99)**" under supervision of the society for computer simulation (SCS) international, which held in Amman in 1999.  Paper title "A **wavelet-Based RBF Neural Network for the Detection of Stop Consonants**". |

## Publications:

1. Ziad Alqadi, Bilal Zahran, Jihad Nader, " **Estimation and Tuning of FIR Lowpass Digital Filter Parameters**", International Journal of Advanced Research in   Computer Science and Software Engineering,  Volume 7, Issue 2, 2017, pp:18-23.

2. Ahmad Sharadqh , Ziad Al-Qadi, Bilal Zahran, Jihad Nader, " **Experimental Investigation of Wave File Compression-Decompression**", International Journal of Computer Science and Information Security (IJCSIS), Vol. 14, No. 10, 2016.pp:774-780

3. B. Zahran , Z. Alqadi , J. Nader and A. Abu Ein, " **A Comparison between Parallel and Segmentation Methods Used for Image Encryption-Decryption"** International Journal of Computer Science & Information Technology (IJCSIT) Vol 8, No 5, 2016.pp:127-133

4. T. Alwada'n, A. Hamdan, Th. Khdour and B. Zahran, "**Enhance Broker Topology for Computational Grid System**" International Journal of Advanced Research (IJAR)  4(11), 1670-1676. 2016

5. B. Zahran, A Mesleh, M. Matouq, O. AlHeyasat, T. Alwada'n, " **Rainfall prediction in Semi-arid regions in Jordan using back propagation neural networks**". International Journal on Engineering Application (IREA). Vol 3. No 6. 2015.pp:158-161

6. L. Al-Qaisi, A. Mesleh, A. Al-Qaisi, A. Sharadqh, B.zahran, J. Alkasassbeh and M. Olaimat, "**Evaluation of E-Commerce Website Functionality**". Engineering, Technology & Applied Science Research(ETASR). Vol 5, No 5. 2015. -pp: 860-863.

7. B.Zahran**, " Using Neural Networks to Predict the Hardness of Aluminum Alloys**". Engineering, Technology & Applied Science Research(ETASR). Vol 5, No 1. 2015. -pp: 757-759.

8. B.Zahran**, " Classification of Brain Tumor using Neural Network".** International Review on Computers and Software (IRECOS). Vol 9, No 4. 2014**. pp:673-679.**

9. B.Zahran**, ..etall " Automated Blood Cells Extraction and counting"** International Journal of Computers & Technology (IJCT): Vol 12, No 9. 2014**.pp: 3906-3911.**

10. Z. Alasmer, B. Zahran, B. Ayyoub, M. A. Hammouri and J. Ababneh Kanan. "**A Comparison between English and Arabic Text Compression**" Contemporary Engineering Sciences, Vol. 6, 2013, no. 3, 111 – 119.

11. Meseleh, B. Zahran, A. Al-Abadi, S. Hamed, N. Al-Zabin, H. Bargouthi, and I. Maharmeh **" Genetic Cryptanalysis "** Communications in Computer and Information Science, 2010, Volume 87, Part 2, 321-332.Springer.

12. B. Zahran and G. Kannan." **Text Feature Selection using Particle Swarm Optimization**". World applied sciences Journal 7 (special issue of computer & IT: 69-74, 2009. ISSN 1818-4952.

13. M. Abdallah and B. Zahran**. "Analysis: Signal-Step Analysis of Surface Myoelectric Signal**". European Journal of Scientific Research. ISSN 1450-216X Vol.26 No.2 (2009), pp.298-304

14. M. Abdallah, B. Khhaleh, S. Odeh and B. Zahran **"A wavelet-Based RBF Neural Network for the Detection of Stop Consonants".** *1st Middle East Workshop on Simulation and Modeling (MESM'99)*. SCS, the society for computer simulation international. Amman.1999.

## Administrative Positions:

- Member of the **faculty council** in 2014/2015. The faculty council is the governing body of the faculty of engineering technology and shall establish policy on all academic matters pertaining to the Faculty.
- **Dean assistant** for computer issues in 2015/2016. This includes supervising the following: Faculty data center, ELearning system, online exams, computer labs.
- Member of the **Committee on Student Discipline** in 2016/2017. The committee is responsible for administering the stated rules and regulations governing both academic integrity matters and serious non-academic misconduct; for assessing reported violations; and, when necessary, for assigning appropriate penalties.

## Academic experience:

| Institution/Country | Department | Position | from | to |
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| Al-Balqa' Applied Univ. (Jordan) | -Computer Engineering Dept. | Instructor, Assistant professor | 8/1999 | now |
| King AbduAziz Univ. (S. Arabia) | Computer & IS Dept./ | Assistant professor | 19/1/2011 | 20/1/2012 |
| Arab Community College (Jordan) | Engineering Dept. | Instructor | 2/1998 | 8/1999 |

## Skills & Delivering Technical and Professional  Lectures :

- *Cisco certified trainer in CCNA* **Routing & switching** (*Cisco Certified Network Associate*).
- Cisco certified trainer in CCNA **Security** (computer network security)
- Dr. Zahran is a reviewer for some local and international Journals.