

## YAZAN A. AL-SARIERA – PhD in Software Engineering

Ar'ar, Northern borders, Kingdom of Saudi Arabia

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Website: [yznss.com](http://yznss.com) , [Google Scholar](https://scholar.google.com/citations?user=...) and [ResearchGate](https://www.researchgate.net/profile/...): Yazan A. Alsariera



### CAREER OBJECTIVE

As a disciplined and motivated PhD holder with research background in computer science and software engineering, I aim to build a strong research contributions and teaching software engineering and computer science related subjects in a leading organization. Ambition is to eventually have broad-based academic career including research and management responsibilities.

### KEY SKILLS

- Artificial intelligence, Secure software development, Software testing and Optimization methods.
- Software and web development with a high-level security implementation.
- Management and strategic plans.

### EXPERIENCE (2 years as Faculty member, and 3 as a Teaching assistant)

#### Assistance Professor

August 27, 2018 – present

Department of Computer Science, Faculty of Science, Northern Borders University, Arar – KSA.

- Information Technology Consultant @ The Vice Presidency of Academic Affairs, Higher Administration.
- Faculty member: Teaching classes and labs for graduate and undergraduate.
- Software analysis, including the design and deployment of new academic IT systems and services with the Deanship of IT.
- Conducting research within the department of computer science.

#### Research and Teaching Assistant

September 8, 2014 – February 18, 2017

University of Malaysia Pahang, Kuantan, Malaysia.

- Assisting in postgraduate colloquiums and events. I have appointed as faculty postgraduate colloquium committee for ten months (from 1<sup>st</sup> Mar 2016 to 31<sup>st</sup> Dec 2016) as committee vice chairman.
- Conducting research within the department of software engineering.
- Help in teaching classes and labs for both graduate and undergraduate.

#### Software and Web Developer

September 5, 2010 – March 17, 2011

Mawaq'e Lil Tasweeq Company, Amman, Jordan.

- Develop software and web application using code first approach and maintain stored procedures, user defined functions, indexes, views, tables, and relationships on SQL Server databases.

### EDUCATION

#### Doctor of Philosophy in Software Engineering (Excellent)

January 17, 2018

University of Malaysia Pahang, Kuantan, Malaysia

Dissertation: "A Bat-Inspired T-Way Strategy for Mixed-Strength Test Suite Generation."

- In short, the research focuses on optimizing exponential test data in software testing using artificial intelligence algorithms.

#### Master of Computer Science in Software Engineering (Very Good)

August 15, 2013

University of Putra Malaysia, Selangor, Malaysia

Thesis: "An Object-Oriented Anti-Patterns Tracking and Detection Technique."

- In short, the research focuses on the detection of object-oriented design anti-patterns that leads to high complexity.

#### Bachelor of Science in Computer Science (Good)

September 5, 2010

University of Mut'ah, Al-Karak, Jordan

**AWARDS**

- Certificate of Merit** **2016**  
 Invention Expo (INPEX 2016), America's Largest Invention Trade Show, 7<sup>th</sup> – 9<sup>th</sup> of June 2016, Monroeville Convention Center, Pittsburgh, Pennsylvania, USA.
- Gold Medal** **2015**  
 In the International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA15), 4<sup>th</sup> – 6<sup>th</sup> of December 2015, Kuala Lumpur Convention Centre, Malaysia.
- Gold Medal** **2015**  
 In the Creation, Innovation, Technology and Research Exposition (Citrex2015), 9<sup>th</sup> – 10<sup>th</sup> of March 2015, Universiti Malaysia Pahang (UMP), Kuantan, Malaysia.
- Certificate of Best Paper Award** **2014**  
 In the 8th Malaysian Software Engineering Conference (MySEC2014), 23<sup>rd</sup> – 24<sup>th</sup> of September 2014. Melitus Langkawi Hotel, Langkawi, Kedah, Malaysia.

**PUBLICATIONS JOURNALS / CONFERENCES PAPERS / SYMPOSIUMS**

- 2020
- [1]. Yazan A. Alsariera. "A Hamming Distance based Bat-Inspired Strategy for Combinatorial Test Suite Generation", (*submitted to ISI indexed Journal - Swarm and Evolutionary Computation*).
  - [2]. Yazan A. Alsariera, Victor E. Adeyemo, Abdullateef O. Balogun. "AI Meta-Learners and Extra-trees Algorithm for the Detection of Phishing Websites. ", (*submitted to ISI indexed Journal - Kuwait Journal of Science, IF = 0.891, Q3 – 18*).
  - [3]. Yazan A. Alsariera, Adeyemo V. Elijah, Abdullateef O. Balogun. "Phishing Website Detection: Forest by Penalizing Attributes Algorithm and Its Enhanced Variations", *Arabian Journal for Science and Engineering, Springer. (Accepted: ISI indexed IF = 1.518, Q3 – 18)*.
  - [4]. D.M. Hoat, Omar Tarawneh, Yazan A. Alsariera, Khaled Salehi, Mosayeb Naseri, "Strain tunable electronic and optical properties of 2D orthorhombic Lithium Sulfur Monolayer", *Chemical Physics, Elsevier. (ISI indexed IF = 1.822, Q3 – 18)*.
- 2019
- [5]. AK Alazzawi, HM Rais, S Basri, YA Alsariera. "PhABC: A Hybrid Artificial Bee Colony Strategy for Pairwise test suite Generation with Constraints Support", *IEEE Student Conference on Research and Development (SCORED), 106-111, 2019*.
  - [6]. AK Alazzawi, HM Rais, S Basri, YA Alsariera. "Pairwise Test Suite Generation Based on Hybrid Artificial Bee Colony Algorithm", *Advances in Electronics Engineering 619, 137-145*.
- 2018
- [7]. Ameen A. BA Homaid, AbdulRahman A. Alsewari, Kamal Z. Zamli, Yazan A. Alsariera and Ammar K. Alazzawi. "Adapting the Elitism on the Greedy Algorithm for Variable Strength Combinatorial Test Cases Generation", *IET Software. (ISI indexed IF = 0.733, Q4)*.
  - [8]. Yazan A. Alsariera, Hammoudeh S. Alamri and Kamal Z. Zamli. "A Bat-Inspired Testing Strategy for Generating Constraints Pairwise Test Suite", *In the 5th International Conference on Software Engineering and Computer Systems (ICSECS2017)*.
  - [9]. Hammoudeh S. Alamri, Yazan A. Alsariera, and Kamal Z. Zamli. "Opposition-based Whale Optimization Algorithm". *In the 5th International Conference on Software Engineering and Computer Systems (ICSECS2017)*.
  - [10]. Hussam Alddin S. Ahmed, Mohamad F. Zolkipli, Yazan A. Alsariera, Saba M. Ismail. "Pseudo random bits' generator based on Tent chaotic map and linear feedback shift register". *In the 5th International Conference on Software Engineering and Computer Systems (ICSECS2017)*.
- 2017
- [11]. Ahmed HA, Ali MH, Kadhum LM, Zolkipli MF, and Yazan A. Alsariera. "A Review of Challenges and Security Risks of Cloud Computing". *Journal of Telecommunication, Electronic and Computer Engineering*, vol. 9, no. 1-2. pp. 87-91, 2017. (*Scopus SJR: 0.11*)
  - [12]. AbdulRahman A. Alsewar, Ammar K. Alazzawi, Taha H. Rassem, Muhammad N. Kabir, Ameen A. Ba Homaid, Yazan A. Alsariera, Nasser M. Tairan and Kamal Z. Zamli, "ABC Algorithm for Combinatorial Testing Problem", *Journal of Telecommunication, Electronic and Computer Engineering*, vol. 9, no. 3-3. pp. 85-88, 2017. (*Scopus SJR: 0.11*)
  - [13]. Yazan A. Alsariera and Kamal Z. Zamli. "A real-world test suite generation using the bat-inspired t-way strategy. *In the 10<sup>th</sup> Asia Software Testing Conference (SOFTEC2017)*, Kuala Lumpur, Malaysia.

- 2016 [14]. [Yazan A. Alsariera](#), Abdullah M. Nasser, Kamal Z. Zamli, "Benchmarking of Bat-inspired Interaction Testing Strategy". *International Journal of Computer Science and Information Engineering*, vol. 7, no. 1, 71-79, 2016.
- 2015 [15]. [Yazan A. Alsariera](#) and Kamal Z. Zamli. "A Bat-inspired Strategy for T-Way Interaction Testing", *Advanced Science Letters*, American Scientific Publishers, vol. 21, no. 7, pp. 2281-2284, 2015. (Scopus SJR: 0.135)
- [16]. [Yazan A. Alsariera](#), Mazlina A. Majid, and Kamal Z. Zamli. "A Bat-inspired Strategy for Pairwise Testing", *ARPN Journal of Engineering and Applied Sciences*, ARPN, vol. 10, no. 18, pp. 8500-8506, 2015. (Scopus Q3 SJR: 0.2)
- [17]. Kamal Z. Zamli, [Yazan A. Alsariera](#), Abdullah B. Nasser, and Abdul Rahman A. Alsewari. "On Adopting Parameter Free Optimization Algorithms for Combinatorial Interaction Testing", *ARPN Journal of Engineering and Applied Sciences*, ARPN, vol. 10, no. 19, pp. 8987-8994, 2015. (Scopus Q3 SJR: 0.2)
- [18]. [Yazan A. Alsariera](#), Mazlina A. Majid, and Kamal Z. Zamli. "SPLBA: An Interaction Strategy for Software Product Line System Configuration Using Bat-Inspired Algorithm", *In the 4<sup>th</sup> International Conference on Software Engineering and Computer Systems (ICSECS2015)*, Kuantan, Malaysia, IEEE Press, 2015.
- [19]. [Yazan A. Alsariera](#), Mazlina A. Majid, and Kamal Z. Zamli. "An Interaction Testing Case Study Using Bat-Inspired T-Way Strategy", *In the 8<sup>th</sup> Asia Software Testing Conference, (SOFTEC2015)*, 8<sup>th</sup> - 10<sup>th</sup> September 2015, Kuala Lumpur, Malaysia.
- [20]. Abdullah B. Nasser, [Yazan A. Alsariera](#), AbdulRahman A. AlSewari, Kamal Z Zamli. "A cuckoo search based pairwise strategy for combinatorial testing problem", *Journal of Theoretical and Applied Information Technology*, vol. 82, no. 1, pp. 154-162, 2015. (Scopus Q3 SJR: 0.167)
- [21]. Abdullah B. Nasser, [Yazan A. Alsariera](#), AbdulRahman A. AlSewari, Kamal Z Zamli. "Assessing optimization-based strategies for t-way test suite generation: The case for flower-based strategy", *In the International Conference on Control System, Computing and Engineering (ICCSC2015)*, Penang, Malaysia, pp. 150-155, IEEE Press, 2015.
- 2014 [22]. [Yazan A. Alsariera](#) et al. "Comparative performance analysis of bat algorithm and bacterial foraging optimization algorithm using standard benchmark functions", *In the 8<sup>th</sup> Malaysian Software Engineering Conference (MySEC2014)*, pp. 295-300. IEEE Press, 2014.
- [23]. Abdullah M. Nasser, [Yazan A. Alsariera](#), Kamal Z. Zamli and B AlKazcmi. "Late Acceptance Hill Climbing Based Strategy for Addressing Constraints within Combinatorial Test Data Generation". *In the 7<sup>th</sup> Asia Software Testing Conference (SOFTEC2014)*, Malaysia, pp. 12-16, 2014.

## REVIEWING EXPERIENCE

- [1]. Multimedia Tools and Applications, Springer.
- [2]. IET Software.
- [3]. Information and Software Technology, Elsevier
- [4]. Journal of Engineering Science & Technology (Taylor's)
- [5]. International Journal of Software Engineering and Technology.
- [6]. In the International Conference on Software Engineering and Computer Systems (2015).

## JURY EXPERIENCE

- [1]. The International Competition and Exhibition on Computing Innovation (iCE-CInno 2016), December 6 – 8, 2016.

## Memberships

- [1]. International Journal of Software Engineering and Technology.
- [2]. Committee member In the International Conference on Software Engineering and Computer Systems (2015).

## Taught Courses

- [1]. **Secure Software development** (at Northern Border University for graduate student)
- [2]. **Secure operating system** (at Northern Border University for graduate student)
- [3]. **Ethical hacking** (at Northern Border University for graduate student)
- [4]. **Artificial intelligence** (at Northern Border University for undergraduate student)
- [5]. **Web programming** (at Northern Border University for undergraduate student – PHP and MySQL)
- [6]. **Computer graphics** (at Northern Border University for undergraduate student)
- [7]. **Final year project for undergraduate** (at Northern Border University)
- [8]. **Database** (at University Malaysia Pahang)
- [9]. **Web Development** (at University Malaysia Pahang – ASP.NET and MS-SQL)
- [10]. **Software Testing** (at University Malaysia Pahang)

## Committees

- [1]. Member of Computer labs Committee at Northern Border University.
- [2]. Member of Computer Science Counselor at Northern Border University.
- [3]. Member of Classroom Needs and Teaching Aids Committee at Northern Border University.
- [4]. Member of the Executive Committee for Follow-up of the Electronic KPI's of the National Anti-Corruption Commission (Nazaha).
- [5]. Member of the Institutional Accreditation Committee.

## SEMINARS

- [1]. Certificate of participation in the “postgraduate seminar faculty of computer system and software engineering, UMP in collaboration with faculty of computer science and information technology, USU”, March 23, 2015, organized by FSKKP, UMP, Malaysia.

## SHORT COURSES

- [1]. Academic technical writing course, March 30-31, 2016, organized by UMP, Malaysia.
- [2]. Technical writing using LaTeX Workshop, September 30, 2016, organized by UMP, Malaysia.
- [3]. Performance Standards using Key Performance Indicators (KPI's)
- [4]. New faculty members qualifying (15 hours).
- [5]. Quality standards and academic accreditation (25 hours).
- [6]. Admission and registration using Bannar System.
- [7]. Argos SQL report and query.

## EXHIBITION AND COMPETITION PARTICIPATION

- [1]. Creation, Innovation, Technology & Research Exposition (CITREx 2016), March 7 – 8, 2016, Universiti Malaysia Pahang, Kampus Gambang, Kuantan, Malaysia.
- [2]. UMP 3 Minutes thesis competition, March 30, 2016, Universiti Malaysia Pahang, Kampus Gambang, Kuantan, Malaysia.
- [3]. International Conference on Computational Science and information Management (ICoCSIM 2015), 19 - 21 August 2015, Swiss-Garden Beach Resort, Kuantan, Pahang, Malaysia.
- [4]. Information Technology Students Activity Fair (ITSFA2010), July 7 – 8, 2010, Petra University, Amman, Jordan.

## DEVELOPMENT SKILLS

- Proficient in: Microsoft Visual Studio.NET (C#, VB) , PHP and Java.
- Practical experience in MySQL, and MS-SQL server databases.
- Familiar with:
  - Programming technologies: C++, Payton, LINQ, ADO.NET, ASP.NET, Ajax, JQuery and MVC.
  - Scripting languages: HTML5, JavaScript and CSS3.
  - Cross-platform Apache such as: ASP Core, XAMPP and AMPPS.
  - Oracle PL-SQL.
  - OpenGL and WebGL development.

**TROUBLESHOOTING SKILLS**

- Capable of Identify malwares and viruses and disable it manually, also extract it is functionality when needed.
- Android devices (root, bootloader troubleshooting, system installing).
- Routers (Linksys system, TP-Link system and D-Link system).
- Troubleshooting workstations and Laptops for hardware and software issues.
- Printers (USB, Parallel, IP/LAN) (Laser, Bubble/InkJet and All-in-One) and Scanners.

**OTHER SKILLS**

- Platforms: Microsoft Windows and many of Linux distributions such as: Red hat, Ubuntu, kali Linux and openSUSE.
- Office package: Microsoft Office and Open Office.
- Backup software: AOMEI Backupper, EaseUS Todo Backup, Symantec Ghost, and Paragon Backup & Recovery.
- Disk partition software: Minitool Partition Wizard, Paragon Partition Manager, Partition Disk, Disk Manager.
- Design and video editing: Professional in Adobe Photoshop, illustrator, in design, Adobe Premiere Pro and familiar with Adobe After effects (example available on [yznss.com](http://yznss.com)).

**LANGUAGES**

- Arabic – native language.
- English – speak fluently and read/write with high proficiency.
- Malay – speak, read, and write with basic competence.

**References available upon request**