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| Dr. Ghaith Mohammad Jaradat  Faculty of Computer Science & Information Technology  Department of Computer Science  Jerash University  Mobile: +962796888035 Phone: +96226350521 (189)  Fax: +96226350520 P.O.Box 311, 26150 Jerash  g.jaradat@jpu.edu.jo  g.jaradat@outlook.com  ghaith\_jaradat@yahoo.com  http://www.jpu.edu.jo/jpu/profile.php?id=149 |  |

**Education**

Ph.D.               **School of Computer Science, The National University of Malaysia (UKM). Bangi, Selangor, Malaysia, 2012**.

Title of Ph.D. Dissertation: *Diversification and Intensification strategies in Population-based Meta-heuristics for Post-Enrolment Course Timetabling Problems.*

Area of Specialization: *Search Methodologies (Algorithms), Combinatorial Optimization using Metaheuristics, Course Timetabling techniques, Population-based Metaheuristics, Constraint Satisfaction Problems, Graph-Coloring Problems, Mathematical Programming, Statistical Analysis, Data Structure and Object Oriented Programming, and Empirical studies.*

M.Sc.               **School of Science and Art, University of North Malaysia (UUM). Sentok, Kedah, Malaysia, 2007.**

Thesis Title: *Improving Secondary School Examination Timetabling using Genetic Algorithm*

Area of Specialization: *Data Mining techniques, Optimization techniques, Metaheuristics and applications, Timetabling and Scheduling techniques, Search Algorithms, Neural Network approaches, Agent Systems, Expert Systems, Statistical Analysis, Data Structure and Object Oriented Programming, and Empirical studies.*

**B.Sc.**   **School of Science, Jerash University, Jerash, Jordan, 2004.**

Thesis Title: *A Hybrid RSA-RC4 (Base64) algorithm for text encryption.*

Area of Specialization:  *Programming Languages, Data Structure, Object Oriented Programming, Analysis and Design of Algorithms, Computer Systems and Architecture concepts.*

**Professional Experience (Academia)**

1/2018 – present     Jerash University

Associate Prof. Dr. at the Department of Computer Science, Faculty of Computer Science and Information Technology.

Teaching undergraduate courses:

- Artificial Intelligence (Prolog, Python, Java, Matlab).

- Operations Research (LINDO, LINGO, Excel).

- Design and Analysis of Algorithms (C++).

- Simulation Models (Netlogo, Matlab-Simulink, Arena).

- Data Mining (SPSS, SAS, Rosetta, Weka, Python, Java, Matlab).

- Machine Learning (Matlab, Python, Java, Weka, SPSS).

- Data Warehouse.

- Information Retrieval Systems (PHP Web Mining, Weka, Python).

- Object Oriented Programming (C++, Java).

- Data Structures (C++).

- Discrete Mathematics.

- Fundamentals of Programming/Object Oriented (C++, Java, C#).

- Web Programming (ASP.Net, SQL-server, HTML5, JavaScript,

CSS3, PHP, Python, XML).

- Visual Programming (C#).

- Computer Graphics (OpenGL-C++).

- Multimedia (Adobe Flash CS3 Professional, Adobe Animate CC,

Unity).

- Management Information Systems.

- Fundamentals of Information Technology.

- Fundamentals of E-Commerce.

- Computer Skills (A+, MS Windows, Linux Ubuntu, MS Office,

LaTex).

1/2018 – present     Jerash University

Head of Quality Assurance section, Faculty of Computer Science and Information Technology.

10/2012 – 12/2017     Jerash University

Assistant Prof. Dr. at the Department of Computer Science.

11/2009 – 12/2010      University College of TwinTech, Bangi, Malaysia

Lecturer at the Department of Computer Science.

Teaching undergraduate courses:

- Fundamentals of Information Technology.

- C++/Java Programming (Fundamentals /Advanced).

- Computer Organization and Architecture.

- Microprocessor and Assembly Language.

10/2007 – 6/2008     University College of Irbid, Al-Balqa’ University, Irbid, Jordan.

Lecturer at the Department of Computer Science.

Teaching undergraduate courses:

- Introduction to Information Technology.

- Introduction to Internet.

- HTML/JavaScript/VBScript Web Programming.

- C++ Programming (Fundamentals/Advanced).

**Publications: Refereed Journals:**

* Almarashdeh, Ghaith Jaradat, Abuhamdah, Alsmadi, Alazzam, Alkhasawneh, Awawdeh (2019). The Difference Between Shopping Online Using Mobile Apps and Website Shopping: A Case Study of Service Convenience, International Journal of Computer Information Systems and Industrial Management Applications, Volume 11, pp. 151-160.
* Al-Marashdeh, Ghaith M. Jaradat, Ayob, Abu-Al-Aish, Al-Smadi (2018). An Elite pool-based Big Bang-Big Crunch metaheuristic for Data Clustering, Journal of Computer Science, Science Publications, 14(9): 1-18.

* Almarashdeh, Alsmadi, G. M. Jaradat, Althunibat, Albahussain, Qawqzeh, Badawi, Farag, Eldaw (2018). "*Looking Inside and Outside the System: Examining the Factors Influencing Distance Learners Satisfaction in Learning Management System*", Journal of Computer Science, Science Publication, pp 1-13.
* Almarashdeh, Alsmadi, Farag, Albahussain, Badawi, Altuwaijri, Almaimoni, Asiry, Alowaid, Alshabanah, AlrAlrajhi, Alfraihet, Ghaith M Jaradat (2018). "Real-Time Elderly Healthcare Monitoring Expert System using Wireless Sensor Network". International Journal of Applied Engineering Research, Research India Publications, 13(6): 3517-3523.
* G. M. Jaradat, M. Ayob, A. Al-Badareen, M. Al-Smadi, I. Al-Marashdeh, M. Ash-Shuqran, E. Al-Odat (2018). "Hybrid Elitist-Ant System for Nurse-Rostering Problem", Journal of King Saud University - Computer and Information Sciences, Elsevier, x(x):xx. ISSN: 1319-1578.
* G. M. Jaradat (2017). “Internship Training in Computer Science: Exploring Student Satisfaction Levels”, Journal of Evaluation and Program Planning, Elsevier, 63: 109-115.
* Alsmadi, Hamed, Badawi, Almarashdeh, Salah, Farag, Hassan, G. M. Jaradat, Alomari, Alsmadi (2017). “Face image recognition based on partial face matching using genetic algorithm", SUST Journal of Engineering and Computer Sciences, 18(1): 51-61.
* Al-Smadi, Al-Marashdeh, Al-Thunibat, G. M. Jaradat, Al-BaHussain (2017). “Examining the Factors Influencing Distance Learners Satisfaction in Learning Management System”. International Journal of Computers, Communications and Control, 12(6): 1-15.
* G. M. Jaradat (2016). “Hybrid Elitist-Ant System for a Symmetric Traveling Salesman Problem – Case of Jordan”, Journal of Neural Computing and Applications, Springer, 27(2): 1-14.
* G. M. Jaradat, M. Ayob, & I. AlMarashdeh (2016). “The Effect of Elite Pool in Hybrid Population-based Meta-heuristics for Solving Combinatorial Optimization Problems”, Journal of Applied Soft Computing, Elsevier, Vol. 44, pp. 45-56.
* Jaradat, G., Ayob, M., & Ahmad Z. (2014). On the performance of Scatter Search for Post-Enrolment Course Timetabling Problem. In: Ding-Zhu Du (Ed.): International Journal of Combinatorial Optimization, Springer, 27(3): 417-439.
* G. M. Jaradat, M. Ayob, & Z. Ahmad (2013). “Scatter Search metaheuristic for Post-Enrolment Course Timetabling Problems: A Review”, IJACT: International Journal of Advancements in Computing Technology, 5(11): 118-125.
* G. M. Jaradat and M. Ayob. (2013). Effect of Elite Pool and Euclidean Distance in Big Bang-Big Crunch metaheuristic for Post-Enrolment Course Timetabling Problems, International Journal of Soft Computing, Medwell, 8(2): 96-107.
* Jaradat, G., & Ayob, M. (2011). A Comparison between Hybrid Population-based Approaches for solving Post-Enrolment Course Timetabling Problems. In: Jun, J.M. (Ed.): International Journal of Computer Science and Network Security, 11(11): 116-123.

**Publications: Book Chapters:**

* Jaradat, G., & Ayob, M. (2010). An Elitist-Ant System for Solving the Post-Enrolment Course Timetabling Problem. In: Y. Zhang et al. (Eds): Database Theory and Application, Bio-Science and Bio-Technology, Communications in Computer and Information Science, LNCS 2010, Volume 118, pp. 167-176. Springer, Heidelberg.

**Publications: Conference Papers and Proceedings**

* Almarashdeh, Eldaw, Alsmadi, Badawi, Haddad, Adbelkader, Jaradat, Alkhaldi, Qawqazeh (2018). Search Convenience and Access Convenience: The Difference Between Website Shopping and Mobile Shopping. In: A. M. Madureira et al. (Eds.): SoCPaR: Proceedings of the Tenth International Conference on Soft Computing and Pattern Recognition (SoCPaR 2018), Springer, Cham, AISC 942, pp. 33-42.
* M. Al-shugran, M Abu-Shqier, Ghaith M Jaradat (2018). [Adaptive Dynamic Update for Greedy Routing Protocol Using Fuzzy Logic Controller and Mobility Prediction](https://ieeexplore.ieee.org/abstract/document/8500126/), 2018 IEEE International Conference on Electro/Information Technology (EIT), IEEE, Rochester, MI, USA, pp. 0852-0857. DOI: [10.1109/EIT.2018.8500126](https://doi.org/10.1109/EIT.2018.8500126)
* Almarashdeh, I., Elias, N.F., & Jaradat, G. (2013). Towards a Better understanding Of Factors Influencing Instructors’ Satisfaction in Distance Learning Course: A Technology Perspective. 4th World Conference on Learning, Teaching and Educational Leadership, WCLTA 2013, 27-29 Oct 2013, Barcelona, Spain.
* Ayob, M., Jaradat, G., Hamdan, A.R., Sarim, H., & Nazri, Z. (2011). Solving the Viva Presentations Timetabling Problem: A case study at FTSM-UKM. In: the proceedings of the 3rd International Conference on Electrical Engineering and Informatics, ICEEI'2011, art no. 6021816, pp. 1-4, ISSN 2155-6822.
* Jaradat, G., & Ayob, M. (2011). Scatter Search for Solving the Course Timetabling Problem. In: the Proceedings of the 3rd IEEE Conference on Data Mining and Optimization, DMO’11, art no. 5976530, pp. 213-218, ISSN 2155-6938.
* Jaradat, G., & Ayob, M. (2010). Big Bang-Big Crunch Optimization Algorithm to Solve the Course Timetabling Problem. In: the Proceedings of the 10th IEEE International Conference on Intelligent Systems Design and Applications, ISDA’10, art no. 5687114, pp. 1448-1452, ISBN 978-1-4244-8134-7.
* Ayob, M., & Jaradat, G. (2009). Hybrid Ant Colony Systems for Course Timetabling Problems. In: the Proceedings of the 2nd IEEE Conference on Data Mining and Optimization, DMO’09, art no. 5341898, pp. 120-126, ISBN 978-1-4244-4944-6.
* Yasin, A., Jaradat, G. & Daud, R. (2007). Secondary School Examination Timetabling using Genetic Algorithm. Malaysia-Japan International Symposium on Advanced Technology 2007, MJISAT 2007, 12th -15th November, Kuala Lumpur, Malaysia.

**Publications: Seminar Papers/Technical Reports:**

* Jaradat, G., & Ayob, M. (2010). Solving University Post Enrolment-based Course Timetabling Problems using Population-based Approaches. Extended Abstract. In: the 1st National Doctoral Seminar in Artificial Intelligence Technology (CAIT'2010).

**Publications: Books**

Jaradat G. (2016). Search Strategies of Population-based Metaheuristics in Timetabling. Editor: Csevcenco, Scholars' Press, Germany, ISBN: 978-3-659-83823-1.

**Publications: Theses**

* Jaradat, G. (2012). "Diversification and Intensification strategies in Population-based Meta-heuristics for Post-Enrolment Course Timetabling Problems". Ph.D. Thesis. National University of Malaysia (UKM), Malaysia.
* Jaradat, G. (2007). "Improving Secondary School Examination Timetabling using Genetic Algorithm"*.* Master's Thesis. University of North Malaysia (UUM), Malaysia.

**University and Community Service**

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| Period | Memberships |
| Jan. 2018 - present | Quality Assurance, Jerash University |
| May 2017 | The 4th Annual Symposium for Information Technology Students in Jordan, Jerash University |
| Feb. 2016 - present | Scientific Research, Jerash University |
| Jan. 2016 – Dec. 2017 | Crisis Management, Jerash University |
| Jan. 2015 - present | Public Safety, Jerash University |
| Oct. 2015 – Dec. 2017 | Strategic Planning, Jerash University |
| May 2015 | The 3rd Annual Symposium for Information Technology Students in Jordan, Jerash University |
| Oct. 2014 – Oct. 2015 | University Council, Jerash University |
| Jan. 2013 – present | Football team management for the faculty, Jerash University |
| May 2013 | The 1st Annual Information Technology Students "Posters Exhibition", Jerash University |
| Oct. 2012 – Jan. 2013 | Technical follow-up and Laboratories Management, Jerash University |
| Oct. 2012 – present | Syllabus and Certificate Accreditation, Jerash University |
| Oct. 2012 – Jan. 2013 | Electronic Exams Administration, Jerash University |
| Oct. 2012 – Jan. 2013 | Social and Scientific Activities, Jerash University |
| 2012 | Participate at the short course of "Effective Academic Assessment Strategies", Jerash University |

**Research Interest**

* Combinatorial Optimization.
* Metaheuristics.
* Soft Computing.
* Ant Colony Optimization.
* Evolutionary Computation.
* Simulation Models.
* Data Mining.
* Sustainable Energy (in Jordan).
* Database and information system for water resource (in Jordan).
* Topography of Jordan.
* Quality Assurance for Higher Education.

**Workshops and Institutes Attended**

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| Nature of participation | Date and place | Title of Conference / Workshop / Training | No |
| Coordinator | 14 May 2015, Jerash, Jordan | The 3rd Annual Symposium for Information Technology Students in Jordan | 1 |
| Presenter | 27-29 Oct 2013, Barcelona, Spain | The 4th World Conference on Learning, Teaching and Educational Leadership, WCLTA' 2013 | 2 |
| Coordinator | 14 May 2013, Jerash, Jordan | The 1st Annual Information Technology Students "Posters Exhibition" | 3 |
| Presenter / Volunteer reviewer | July 2011, Putrajaya, Malaysia | The 3rd IEEE Conference on Data Mining and Optimization, DMO’2011 | 4 |
| Presenter | July 2011, Bandung, Indonesia | The 3rd International Conference on Electrical Engineering and Informatics, ICEEI'2011 | 5 |
| Presenter | November 2010, Cairo, Egypt | The 10th IEEE International Conference on Intelligent Systems Design and Applications, ISDA’2010 | 6 |
| Presenter | August 2010, UKM, Bangi, Malaysia | The 1st National Doctoral Seminar in Artificial Intelligence Technology, CAIT '2010 | 7 |
| Participant | January 2010, UKM, Melaka, Malaysia | International Conference on Soft Computing and Pattern Recognition, SoCPaR'10 | 8 |
| Presenter | June 2009, UKM, Bangi, Malaysia | The 2nd IEEE Conference on Data Mining and Optimization, DMO’2009 | 9 |
| Presenter | August 2007, Kuala Lumpur, Malaysia | Malaysia-Japan International Symposium On Advanced Technology, MJISAT' 2007 | 10 |
| Participant | June 2008, UKM, Bangi, Malaysia | The 1st IEEE Conference on Data Mining and Optimization, DMO’2008 | 11 |
| Participant | Oct. 2012, Jerash University | Effective Academic Assessment Strategies | 1 |
| Participant | Jun. 2011, UKM, Langkawi, Malaysia | Workshop on Research Methodology, How to Write a Journal Paper | 2 |
| Participant | Apr. 2010, UKM, Seremban, Malaysia | Workshop on Research Methodology, How to Write a Ph.D. Thesis | 3 |
| Participant | Dec. 2010, UKM, Bangi, Malaysia | Workshop on How to Analyze Your Data using SPSS | 4 |
| Participant | Sep. 2010, UKM, Bangi, Malaysia | Workshop on Mathematical Programming & Constraint Satisfaction Problems | 5 |
| Participant | Mar. 2009, UKM, Bangi, Malaysia | Workshop on Artificial Immune System & Research Writings | 6 |
| Participant | Dec. 2008, UKM, Melaka, Malaysia | Workshop on Research Methodology, How to Write a Ph.D. Proposal | 7 |
| Participant | Jun. 2007, UUM, Kedah, Malaysia | Workshop on Applying Data Mining Techniques Using SAS Enterprise Miner | 8 |
| Participant | Dec. 2009, UKM, Melaka, Malaysia | Tutorial Participant at the International Conference on Soft Computing & Pattern Recognition (SoCPaR) | 9 |

**Consultation and External Activities**

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| Period | Activity Description |
| 2015 – present | Project Manager for Enhancing the Jordanian Transportation System using Geographic Information Systems techniques |
| 2015 – present | Community service member , Public Safety - Jerash province |
| 2015 – present | Community service member, Crises management - Jerash province |
| Mar. 2013 – present | Member of the Jordanian Academicians Society |
| Oct. 2013 – Jan. 2017 | Consultant for the Support to Research, Technological Development and Innovation in Jordan (SRTD-II) programme |
| Oct. 2013 – Jan. 2016 | Representative of Jerash university and Coordinator at RUCAS-Tempus IV Project – CLIMASP  (Development of an Interdisciplinary Programme on Climate Change and Sustainability Policy) |
| Oct. 2012 – Jan. 2013 | Project Consultant for Al-UrdonialilEbda' - JSMP II |
| 2012 – present | Project Consultant for Nature-Inspired Algorithms for Constrained and Unconstrained Optimisation Problems |
| 2012 – present | Member of the National Researchers' Database |
| 2015 – present | Mendeley: https://www.mendeley.com/profiles/ghaith-jaradat2/ |
| 2012 – present | Academia.edu: <http://jpu.academia.edu/GhaithJaradat> |
| 2012 – present | Publons Reviewer Profile: https://publons.com/a/491740 |
| 2012 – present | Google Scholar Citations: https://scholar.google.com/citations?user=q\_Q9C88AAAAJ&hl=en |
| 2011 – present | ORCID: 0000-0002-5166-1576 |
| 2011 – present | Research Gate: https://www.researchgate.net/profile/Ghaith\_Jaradat2 |
| 2009 – present | SCOPUS Author ID: 35230017200 |
| Jan. 2017 – present | Member of the Editorial board in the International Journal of Optimization, Hindawi |
| Jan. 2017 – present | Member of the Editorial board in the Advances of Computer Sciences, Boffin Access Inc. |
| May 2016 – present | Volunteer reviewer for the European Journal of Operational Research |
| Nov. 2016 – present | Volunteer reviewer for the Egyptian Journal of Basic and Applied Sciences |
| Jun. 2016 | Volunteer reviewer for the International Journal of Engineering Optimization |
| Apr. 2016 – Jul. 2016 | Volunteer reviewer for the international conference on Fuzzy Systems and Data Mining |
| Apr. 2016 – Jun. 2016 | Volunteer reviewer for the 6th international conference on Electronics, Communications and Networks |
| Mar. 2013 – present | Volunteer reviewer for the International Journal of Neural Computing and Applications |
| Jan. 2012 – present | Volunteer reviewer for the International Journal of Swarm and Evolutionary Computation |
| Jun. 2011 | Volunteer reviewer for the 3rd Conference on Data Mining and Optimization |
| Nov. 2008 – present | Working Group on Automated Timetabling |
| Jul. 2008 – present | Data Mining and Optimization research group |