

# Basima Ahmed Haroun Elshqeirat

## PERSONAL INFORMATION

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**Nationality:** Jordanian

**Current Employer:** Dept. of computer Science

King Abdullah II School for Information Technology, The University of Jordan, Amman 11942, Jordan.

**Phone Number:** +962 6 5355000

**Date of Birth:** April 24th, 1982

**Email:** [b.shoqerat@ju.edu.jo](mailto:b.shoqerat@ju.edu.jo)

## OBJECTIVE

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A highly motivated employee with the passion to engage in a life-long learning. Jobs of interest are those that are mentally challenging and require creativity.

## EDUCATION

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➤ **March 2011 – February 2015 Curtin university** Perth, Australia

PhD/ Computer Science. Research field

➤ **October 2005- January 2008 University of Jordan** Amman, Jordan

Master/ Computer Science GPA: Excellent 4/4, ranking first student

➤ **October 2000 –June 2004 University of Jordan** Amman, Jordan

Bachelor/ Computer Science GPA: Excellent 3.72/4

➤ **September 2000 –Roqaya School** Sharjah,UAE

High School

## ACADEMIC EXPERIENCE:

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**June 2017 – Until now University of Jordan** Amman, Jordan

➤ **Assistant Professor in Computer Science Department, Full Time**

**February 2017 – May 2017 University of Western Australia** Perth, Australia

➤ **Research visit Fellowship in School of Computer Science and Software Engineering**

**February 2016 – May 2017 Curtin University** Perth, Australia

➤ **Academic Staff in Department of Computing, Full Time**

**March 2015 – January 2016 University of Jordan** Amman, Jordan

➤ **Assistant Professor in Computer Science Department**

**September 2009 – February 2011 University of Jordan** Amman, Jordan

➤ **Teaching Assistant in Computer Science Department**

## **NON ACADEMIC EXPERIENCE:**

June 2005 – August 2009 Ministry of Information and Communication Technology Amman, Jordan

### ➤ **GIS Office and Acting GIS Manager:**

- Manages all GIS department activities.
- Manages the daily work for the GIS team.
- Planning and management for the maintenance contracts of the GIS software's.
- Development and Management of GIS applications in various departments.
- Runs different types of analysis and queries to support decision making.
- Hardware and software procurement and management.
- Coordinates with different stakeholders with regard to updates for their datasets.
- Maintains data according to standards set by the national GIS requirements.
- Coordination with the design team for any changes and update of the designs.
- Coordination with the field engineers with regard to their data needs and updates.
- Ensures that GIS updated database are performed according to quality standards.
- Ensures that all changes are updated and reassembles the actual status.
- Provides technical assistance to field engineers and design engineers.
- Provides support for decision making.

### ➤ **Quality Assurance Officer:**

- Updates data obtained from the field engineers.
- Data entry through different means, digitizing scanning, conversion of cad files,...etc.
- Provides technical support for the field engineers.
- Updates data base and base maps as required.
- Prepares and prints maps for the field engineers.
- Field survey to check and digitize relevant datasets.
- Perform data conversion from different formats to approved standards.
- Performs GIS updates according to quality standards.
- Updates all GIS data to reassemble the actual status.
- Provides technical assistance to field engineers and design engineers.

July 2004 – June 2005 Ministry of Information and Communication Technology Amman, Jordan

- Microsoft Trainee in National Broadband Network (GIS Department)

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## **TEACHING COURSES**

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- Design and Analysis of algorithm
- Data Structure and algorithms using java
- Introduction of Software Engineering
- Theory of Algorithm
- Graph Theory

- Special Topics course
- Optimization methods
- C++ language
- Advance programming course" in C++ language.
- Computer skill-2

## **TRAINING COURSES**

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- Effective Project Management (EPM)
- Introduction to ArcGIS 1
- Introduction to ArcGIS 2
- Introduction to Programming Arc Object with VBA
- Developing Stand Alone GIS Applications
- Oracle database

## **PARTICIPATION IN COMMITTEES:**

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- Chairman of Department of computer science Committee for Training, 2017/2018.
- Steering Committee Member, Department of computer science Committee for Quality Assurance, 2015-2017.
- Steering Committee Member, Department of computer science Committee for ABET, 2015-2017.
- Steering Committee Member, Department of computer science Social Committee, 2015-2017.

## **AWARD:**

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- Received in 2012 the Commendation Award (Best Paper Award) on the research paper titled "A Dynamic Programming Approach for Network Design with Cost Constraint, in *9th Postgraduate Electrical Engineering And Computing Symp., PEECS2012.*

## **RESEARCH INTERESTS:**

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**Algorithms, Optimization Methods, Meta-Heuristic Methods, Dynamic Programming, Network Topological Design, Multi-Objective Optimization, QoS, Network Reliability, Network Bandwidth, Graph Theory, Genetic Algorithms , Bioinformatics.**

## ACADEMIC RESEARCH THESIS

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PhD Thesis: **Optimizing Reliable Network Topology Design Using Dynamic Programming**

Master Thesis: **Applying Genetic Algorithm to Design Communication Network**

## PUBLICATION

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- Basima Elshqeirat, Sieteng Soh, Suresh Rai and Mihai Lazarescu (2012). A Dynamic Programming Approach for Network Design with Cost Constraint, *9th Postgraduate Elec. Eng. And Comp. Symp., PEECS2012*. The paper received the Commendation Award.
- Basima Elshqeirat, Sieteng Soh, Suresh Rai and Mihai Lazarescu (2013). Dynamic Programming for Minimal Cost Topology with Two Terminal Reliability Constraint, *Proc. IEEE Asian Pacific Conference on Communication, 2013*, Indonesia.
- Basima Elshqeirat, Sieteng Soh, Suresh Rai and Mihai Lazarescu (2013). A Practical Algorithm for Reliable Communication Network Design, *International Journal of Performability Engineering*, 9(4), 397–408.
- Basima Elshqeirat, Sieteng Soh, Suresh Rai and Mihai Lazarescu (2013). Dynamic Programming for Minimal Cost Topology with Reliability Constraint, *Proceedings of the 5th International Conference on Communication Software and Networks*.
- Basima Elshqeirat, Sieteng Soh, Suresh Rai and Mihai Lazarescu (2013). Dynamic Programming for Minimal Cost Topology with Reliability Constraint, *Journal of Advances in Computer Networks*, 1(4).
- Basima Elshqeirat, Sieteng Soh, Suresh Rai and Mihai Lazarescu (2014). A Dynamic Programming Algorithm for Reliable Network Design, *IEEE Trans. Reliability*, 63(2), 443–454.
- Basima Elshqeirat, Sieteng Soh, Suresh Rai and Mihai Lazarescu (2015). Topology Design with Minimal Cost Subject to Network Reliability Constraint, *IEEE Trans. Reliability*. 64(1).
- Basima Elshqeirat, Sieteng Soh, Suresh Rai and Mihai Lazarescu. Bi-Objective Topology Design of Communication Networks Using Dynamic Programming. *International Journal of Performability Engineering*, May (2015).
- Basima Elshqeirat, Sieteng Soh and Kwan-Wu Chin (2015). Bi-Objective Network Topology Design with Reliability Constraint, *Proc. ICICS2015*, Amman, Jordan.

## **SKILLS**

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- Ability to work as team and working under pressure.
- Hard working and enjoy taking up new challenges.
- Strong desire to acquire new knowledge.
- Highly reliable and well organized.
- Good interpersonal skills.
- Excellent communication skills.
- Good technical and educational knowledge:  
ArcGIS ,AutoCAD , Java ,VB ,C++ & Assembly languages , Microsoft Windows OS & Microsoft Office Tool

## **LANGUAGES**

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**Arabic** (native language),

**English** (Excellent),

**IELTS RESULT IN 18/1/2014:**

LISTING: 7.5

READING: 8.5

WRITING: 6.5

SPEAKING:7.5

OVERALL BAND SCORE:7.5

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## **REFERENCES**

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Eng. Kalil Ihdahid, Managing Director of Arab Access PTY. LTD, Australi, Mobile:+61435566166

Prof.Emad Salah, University of Jordan

Prof. Nadim Obed, University of Jordan