

Hala Shaari

(Ph.D., M.Sc., B.Sc)

Staff member, Faculty of Information Technology- University of Tripoli



Profile

Hala is an assistant professor with a solid research background and exceptional teaching portfolio. She is interested in developing a career which combines teaching and research, while maintaining my interest in public engagement with wider STEM field. Hala demonstrated teaching skills and the ability to work in a team setting as well as independently with effective communication with groups from different backgrounds. Her current research interests include data science, computer vision, deep learning and NLP with recent focus on medical image processing domain using deep learning – particularly, generative networks. Hala obtained her BSc degree in Computer Science from University of Tripoli in 1997, Libya, and her MSc in Computers and Internet Technologies from University of Strathclyde, UK in 2009. Recently she earned her Ph.D degree in Information Technologies from IBU university in November 2022.

She is former head of quality and performance evaluation department at faculty of information technology 2018-2022 and former head of web technologies department 2017-2018. Hala current research interests include data science, medical image analysis, computer vision and deep learning. Hala is a creative member at the Data and Multimedia Lab (D&M Lab) at the Faculty of Information Technology. She has several in-progress research projects in agent-based modelling, deep learning and data science with multidisciplinary teams, such as: modelling of epidemiological disease and detection and classification of landmines and explosive remnants of war (ERW) using deep learning. Recently, Hala is working on medical image processing domain using deep learning – particularly, generative networks to develop an accurate automated segmentation methodologies for 3D MRI pediatric brain tissues.

Contacts



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Education



Ph.D. Information Technologies- Deep Learning

IBU University, Sarajevo, November 2022.

M.Sc. Computer & Internet Technology

University of Strathclyde, Glasgow, September 2009.

B.Sc. Computer Science

University of Tripoli, Tripoli, Libya. July 1997.



Employment/Work Experience

Academic Experience

- **04/2021 to date** :Assistant Professor, Web Technologies Department, Faculty of Information Technology, University of Tripoli. Tripoli, Libya
- **09/2013 to 09/2021** :Lecturer/ Assistant Professor at Software Engineering department, Faculty of Information Technology, Tripoli University, Tripoli.
- **09/2017 to 03-2022** :Head of Quality and Performance Assessment Department- Faculty of Information Technology, University, Tripoli, Libya
- **09/2016 to 09/2017** :Head of Internet Technologies Department – Faculty of Information Technology, University, Tripoli, Libya.
- **09/2017 to date** :Research member at Data and Multimedia Lab (D&M Lab) in the Faculty of Information Technology.
- **Teaching**: Internet programming languages, Java Programming Language, Mobile Application Development, Introduction to Information Technology, User Interface Design, Introduction to 2D Computer Graphics, Software Construction, Software Reuse and Component Based Software Engineering, Web Application Development, Image Processing. Regularly supervise practical courses for undergraduate students and have supervised many undergraduate research projects.

Work Experience

- **08/2002 to 07/2012** :High school ICT teacher. Tripoli, Libya.
- **08/1997 to 08/1999** :Software Developer, Computers and Information Technology Company. Tripoli, Libya.

Languages



Arabic



English



Training Courses

- **04/2016:** 98-375 MTA :HTML5 Application Development Fundamentals Certificate.
- **08/2007 to 06/2008 :**English Language courses at Anniesland College in Glasgow, UK.



Awards and promotions

- **04/2021 :**Promoted to Assistant Professor, Faculty of Information Technology, University, Tripoli, Libya.
- **04/2017 :**Promoted to Lecturer, Faculty of Information Technology, University, Tripoli, Libya.



Other experiences

- Many papers have been published at high-quality Journals and scientific conferences.
- Teaching, guiding and supervising undergraduate students, developing study programs and curricula, developing and managing research projects in field computer engineering.
- Preparing courses for graduate and undergraduate study programs in the field of Computer science.



Publications

1. Shaari, H., Kevric, J., Saracevic M., and Ahmed, N. (2023). Performance Investigation of Several Convolutional Neural Network Models in Healthcare System: Blockchain Technology Solutions for the Security of IoT-Based Healthcare Systems in Cognitive Data Science in Sustainable Computing Series. Elsevier Science & Technology, ISBN:9780323991995.
2. Shaari, H., Kevrić, J., & Jukić, S. (2022). Machine learning algorithms: practical case studies. International Burch University, ISBN - 978-9958-834-72-1. COBISS.BH-ID – 49297926.
3. Irtaymah, Hatim Abu, Hala Shaari, and Nuredin Ahmed. “Agile Project Management Approaches: A Case Study with Respect to Their Application in Finance Technology Projects.” Journal of Pure & Applied Sciences 21.4 (2022): 24-29.
4. Dakhila, Safa Salem, Nuredin Ali Salem Ahmed, and Hala Shaari. “Comparison of Two Face Recognition Machine Learning Models.” Journal of Pure & Applied Sciences 21.4 (2022): 30-34.
5. Shaari H., Durmić N., Ahmed N. Modern ABI Platforms for Healthcare Data Processing. In: Ademović N., Mujčić E., Akšamija Z., Kevrić J., Avdaković S., Volić I. (eds) Advanced Technologies, Systems, and Applications VI. IAT 2021. Lecture Notes in Networks and Systems, vol 316. Springer, , Cham.
6. H. Shaari, J. Kevrić, S. Jukić, L. Bešić, D. Jokić, N. Ahmed, and V. Rajs, “Deep Learning-Based Studies on Pediatric Brain Tumors Imaging: Narrative Review of Techniques and Challenges,” Brain Sciences, vol. 11, no. 6, p. 716, May 2021.
7. Nuredin Ahmed, Hala Shaari, Adel Saad Emhemmed, “Design, Modeling and implementation of Smart grid using PROTEUS and Arduino”, 2021 IEEE 1st International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering MI-STA, 25-27 May 2021, Tripoli-Libya, vol. 1, pp. 623-627, 2021.
8. Abdelhamid Elwaer, Marwa Solla, Fatima Ben Lashiher, Hassan Ali Hassan Ebrahim, Hala Shaari and Rudwan A. Husain, “Applying Multiple Deep Learning Models for Antipersonal Landmines Recognition”, Libyan Conference on Automation and Robotics (LCAR 2021), Tripoli-Libya, vol. 1, pp. 35-42, 2021.
9. Hala Shaari and Nuredin Ahmed, “An Extensive Study on Online and Mobile Ad Fraud”, The Third Conference for Engineering Sciences and Technology (CEST2020) ,AL-Khoms, Libya, vol. 3, pp. 223-234, 2020.
10. Rudwan A. Husain , Hala Shaari , Hassan Ali Hassan Ebrahim and Marwa Solla, “Simulation of Leishmaniasis Epidemiology in Libya Using Agent Based Modelling”, 19th International conference on Sciences and Techniques of Automatic control & computer engineering. March 24-26, 2019, Sousse, Tunisia. DOI: 10.1109/STA.2019.8717262, IEEE.
11. Rudwan A. Husain , Hala Shaari , Marwa Solla and Hassan Ali Hassan Ebrahim , “Agent Based Computing Technique for Epidemiological Disease Modelling”, International Conference on Technical Science ICTS 2019. March 4-6 Tripoli, Libya.
12. Hala Shaari and Nuredin Ahmed, “Improving Performance and Progression of Novice Programmers: Factors Considerations”, International Journal of Information and Education Technology vol. 8, no. 1, pp. 7-10, 2018.