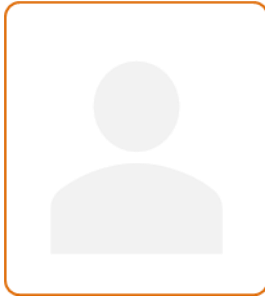# Asma Abdalla Elmangoush

Dr.-Ing Computer Engineering — College of Industrial Technology, Misurata

A. Personal Details

Date of Birth: 4th October 1975

Nationality: Libyan

Contact:

Address: Misurata, Libya

Marital Status: Single

Languages: Arabic, English, German

B. Academic Qualifications

Ph.D.: Technical University Berlin, Germany, 2016 — *"Application-derived Communication Protocol Selection in M2M Platforms for Smart Cities"*

M.Sc.: The Higher Institute Of Industry, Misurata, Libya , 2007 — *"Quality of Service Provisioning within IMS-WLAN Interworking"*

B.Sc.: The Higher Institute Of Industry, Misurata, Libya , 1998

C. Employment History

Dec 2020 - Present
College of Industrial Technology, Misrata, Libya
Assistant Professor

April 2019 - December 2019
College of Industrial Technology, Misurata Libya
Head of Postgraduate Studies Department

September 2011 - March 2016
Technical University Berlin, Germany
Associate researcher

Feb 2007 – August 2011
College of Industrial Technology, Misurata, Libya

Assistant Lecturer

March 2007 – Jan 2008
Misrata Free Zone
Consultant and Member of Technical Management Team

Jan 1999 – Dec 2006
The Higher institute of global professions
Assistance Lecture

D. Research Interests

• Internet of Things (IoT)

• Artificial Intelligence (AI)

• Blockchain Technology

• Smart City applications

E. Selected Publications

[1] A. M. Medhat, T. Taleb, A. Elmangoush, G. A. Carella, S. Covaci, and T. Magedanz, 'Service function chaining in next generation networks: State of the art and research challenges', *IEEE Communications Magazine*, vol. 55, no. 2, pp. 216–223, 2016.

[2] A. Elmangoush *et al.*, 'Towards Unified Smart City Communication Platforms', in *Proceedings of the Workshop on Research in Information Systems and Technologies*, 2015.

[3] M. Fraifer *et al.*, 'Look before you leap: exploring the challenges of technology and user experience in the internet of things', in *2017 IEEE 3rd International Forum on Research and Technologies for Society and Industry (RTSI)*, 2017, pp. 1–6.

[4] A. Elmangoush and T. Magedanz, 'Adaptable Protocol Selection for Reliable Smart City Services', *Journal of Cyber Security*, vol. 6, no. 1, pp. 57–76, 2017.

[5] M. Abdurohman, A. G. Putrada, S. Prabowo, C. W. Wijiutomo, and A. Elmangoush, 'M2M device connectivity framework', *International Journal on Electrical Engineering and Informatics*, vol. 9, no. 3, pp. 441–454, 2017.

[6] A. Elmangoush, H. Coskun, S. Wahle, N. Blum, and T. Magedanz, 'Promoting M2M application development for smart city', in *Wireless World Research Forum Meeting*, 2012, vol. 29.

[7] A. Elmangoush, 'Evaluating the Features of HTTP/2 for the Internet of Things', in *Conference: 1st Conference of Industrial Technology (CIT2017)*, 2017.

[8] M. Abdurohman, A. G. Putrada, S. Prabowo, C. W. Wijiutomo, and A. Elmangoush, 'Integrated Lighting Enabler System Using M2M Platforms for Enhancing Energy Efficiency', *J. Inf. Process. Syst.*, vol. 14, no. 4, pp. 1033–1048, 2018.

[9] H. Hasenfuss, M. Fraifer, S. Kharel, A. Elmangoush, A. Ryan, and W. Elgenaidi, 'It Takes Two to Tango: Merging Science and Creativity to Support Continued Innovation in the IoT Domain', *Advances in Science, Technology and Engineering Systems Journal*, vol. 3, pp. 82–91, 2018.

[10] A. A. Elmangoush, 'Application-derived communication protocol selection in M2M platforms for smart cities', Technische Universitaet Berlin (Germany), 2016.

[11] W. A. Elshibani, A. Elmangoush, and M. Ashibani, 'Towards the Digitalization of Libyan Land Registry', in *Third International Conference on Technical Sciences (ICST2020)*, 2020.

[12] F. Abujalala, A. Elmangoush, and M. Ashibani, 'Intelligent Traceable Cargo System in High-mobility and Connection-less Environment', in *IEEE 1st International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA2021)*, 2021.

[13] A. Elmangoush, F. Abujalala, M. Ashibani, H. Eliwa, and W. Elshibani, 'Digital Transformation with Blockchain Technology: Applications and Research Directions', in *Proceedings of the ILCICT 2022*, 2022, pp. 101–106.

F. Teaching and Supervision

Undergraduate courses taught: Data Network Communication, Computer Programming I/ II, Computer Network Programming, Microprocessors and Embedded Systems.

Postgraduate courses taught: Next Generation Networks, Internet of Things for Industrial Applications.

H. Skills & Technical Competencies

- Programming & software: JAVA, Python, .net , MATlab, Linux, bash scripting

- HCIA DataCom

- VMware Academy: Cloud and Virtualization Concepts, Network Virtualization Concepts

- Dell Information Storage and Management Foundations 2023

- Project management: Agile, Scrum

I. References

Available on request / list referees with contact details