

CURRICULUM VITAE

Ibrahim Mustafa Mashal

Cyber Security / Faculty of Sciences and IT

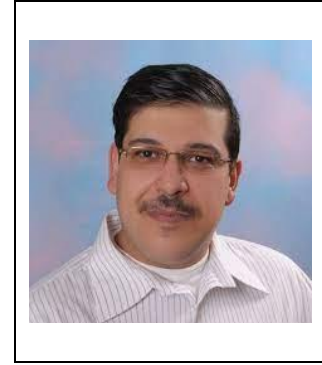
Al-zaytoonah University of Jordan, Amman, Jordan

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1. Personal Data

Date of Birth: -----

Nationality: Jordanian

2. Education

- Ph.D. (Computer Networks) 2016, Yuan Ze University, Taoyuan, Taiwan.
- M.Sc. (Computer Networks) 2007, Jordan University, Amman, Jordan.
- B.Sc. (Computer Networks) 2007, Al Zaytoonah University of Jordan, Amman, Jordan.

3. Ph.D. Dissertation

A Study on a Recommender System for the Internet of Things. Yuan Ze University, Taoyuan, Taiwan.

4. Employment

Academic Positions

- Associate Professor, Department of Cybersecurity and Cloud Computing, Applied Science Private University, Amman, Jordan October 2022 – October 2023
- Associate Professor, Department of Software Engineering, Aqaba University of Technology, Aqaba, Jordan September 2021 – September 2022
- Assistant Professor, Department of Software Engineering, Aqaba University of



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Technology, Aqaba, Jordan September 2019 – September 2021.

- Assistant Professor, Department of Computer Science, Aqaba University of Technology, Aqaba, Jordan September 2017 – September 2019.

Administrative Positions

- Dean, Faculty of Arts and Sciences, Aqaba University of Technology, Aqaba, Jordan (2021-2022).
- Head of Computer Science / Artificial Intelligence and Software Engineering Departments Aqaba University of Technology (2020-2021).

5. Research Interests

Internet of Things, Wireless Sensor Networks, Artificial Intelligence, Recommender Systems, Smart Homes, Multi-Criteria Decision Making Methods, Technology adoption and acceptance.

6. Membership in Scientific Societies and Associations

7. Honors and Awards

8. Fellowships and Scholarships

9. Teaching Experience

- *Graduate Courses*
- *Undergraduate Courses*
 - Computer programming (C++, Python)
 - Operating system for cybersecurity
 - Internet of Things
 - Recommender Systems
 - Database Management Systems.
 - Advanced Database Management Systems
 - Object Oriented Programming
 - Information and Data Security
 - Data Communications and Networks
 - Discrete Mathematics
 - Wireless Networks
 - Analysis and Design of Algorithms
 - Computer Architecture
 - Computer Organization and Assembly Language
 - Theory of Computation

10. Supervision of Graduate Research

11. Grants

**12. Patents****13. Membership of Committees**

- **National and International**
- Program Committee (PC) Member for the 17th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2020), Antalya, Turkey, November 2-5, 2020.
- Program Committee (PC) Member for the 16th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2019), Abu Dhabi, UAE, November 3-7, 2019.
- Technical Program Committee (TPC) for the 7th International Conference on Computer and Communications Management (ICCCM 2019), Bangkok, Thailand, July 27-29, 2019

14. Professional and Scientific Meetings**15. Participation in or organization of curricular and/or extra-curricular activities****16. Publications**

- Papers in refereed journals
1. Ibrahim Mashal, Osama A. Khashan, Mohammad Hijjawi, and Mohammad Alshinwan. "The determinants of reliable smart grid from experts' perspective", Energy Informatics (2023).
 2. Ibrahim Mashal, Ahmed Shuhaiber, and Ayman Al-Khatib. "User acceptance and adoption of smart homes: A decade long systematic literature review", International Journal of Data and Network Science (2023).
 3. Hela Elmannai, Nora El-Rashidy, Ibrahim Mashal, Manal Abdullah Alohal, Sara Farag, Shaker El-Sappagh, Hager Saleh. "Polycystic Ovary Syndrome Detection Machine Learning Model Based on Optimized Feature Selection and Explainable Artificial Intelligence", Diagnostics (2023).
 4. Hela Elmannai, Hager Saleh, Abeer D Algarni, Ibrahim Mashal, Kyung Sup Kwak, Shaker El-Sappagh, Sherif Mostafa. "Diagnosis Myocardial Infarction Based on Stacking Ensemble of Convolutional Neural Network". Electronics (2022).
 5. Mohammad Shehab, Ibrahim Mashal, Zaid Momani, Mohd Khaled Yousef Shambour, Anas AL-Badareen, Saja Al-Dabet, Norma Bataina. "Harris Hawks Optimization Algorithm: Variants and Applications", Archives of Computational Methods in Engineering (2022).
 6. Ibrahim Mashal. "Smart grid reliability evaluation and assessment", Kybernetes (2022).
 7. Ibrahim Mashal, Osama Alsaryrah, Tein-Yaw Chung, and Fong-Ching Yuan. "A multi-criteria analysis for an internet of things application recommendation system", Technology in Society (2020).



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8. Ibrahim Mashal, Ahmed Shuhaiber, and Mohammad Daoud. "Factors influencing the acceptance of smart homes in Jordan", International Journal of Electronic Marketing and Retailing (2020).
9. Ibrahim Mashal and Osama Alsaryrah. "Fuzzy analytic hierarchy process model for multi-criteria analysis of internet of things", Kybernetes (2019).
10. Ahmed Shuhaiber and Ibrahim Mashal. "Understanding users' acceptance of smarthomes", Technology in Society (2019).
11. Ibrahim Mashal, and Ahmed Shuhaiber. "What makes Jordanian residents buy smart home devices? A factorial investigation using PLS-SEM", Kybernetes (2018).
12. Osama Alsaryrah, Ibrahim Mashal, and Tein-Yaw Chung. "Bi-objective optimization for energy aware Internet of Things service composition". IEEE Access (2018).
13. Vu, Van-Huy, Ibrahim Mashal, and Tein-Yaw Chung. "A novel bandwidth estimation method based on MACD for DASH", KSII Transactions on Internet & Information (2017).
14. Ibrahim Mashal, Osama Alsaryrah, and Tein-Yaw Chung. "Performance evaluation of recommendation algorithms on internet of things services", Physica A: Statistical Mechanics and its Applications (2016).
15. Ibrahim Mashal, Osama Alsaryrah, and Tein-Yaw Chung. "Testing and evaluating recommendation algorithms in internet of things" Journal of Ambient Intelligence and Humanized Computing (2016).
16. Ibrahim Mashal, Osama Alsaryrah, Tein-Yaw Chung, Cheng-Zen Yang, Wen-Hsing Kuo, and Dharma P. Agrawal. "Choices for interaction with things on Internet and underlying issues". Ad Hoc Networks (2015).
17. Tein-Yaw Chung, Ibrahim Mashal, Fong-Ching Yuan, Yuan-Hao Chiang, and Osama Alsaryrah, "Hybrid Algorithm for Selecting Multimedia Network Connections in Heterogeneous Networks", Smart Computing Review (2015).

- Books and Book Chapters

1. Ibrahim Mashal, "Evaluation and Assessment of Smart Grid Reliability Using Fuzzy Multi-criteria Decision-Making". In: Rahmani-Andebili M. (eds) Applications of Fuzzy Logic in Planning and Operation of Smart Grids. Power Systems. Springer.

- Conference Presentations

1. Osama Alsaryrah, Ibrahim Mashal, and Tein-Yaw Chung, "A Fast IoT Service Composition Scheme for Energy Efficient QoS Services.". The 7th International Conference on Computer and Communications Management (ICCCM 2019). ACM, Thailand.
2. Ahmed Shuhaiber, Ibrahim Mashal, and Osama Alsaryrah, "The Role of Smart Homes' Attributes on Users' Acceptance". International Conference on Electrical and Computing Technologies and Applications (ICECTA 2019), UAE.
3. Ahmed Shuhaiber, Ibrahim Mashal, and Osama Alsaryrah, "Smart homes as an IoT application: predicting attitudes and behaviours", 16th ACS/IEEE



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- International Conference on Computer Systems and Applications (AICCSA 2019), UAE.
4. Osama Alsaryrah, Ibrahim Mashal, and Tein-Yaw Chung, "Energy-Aware Services Composition for Internet of Things". 2018 IEEE World Forum on Internet of Things (WF-IoT 2018), Singapore.
 5. Ibrahim Mashal, Osama Alsaryrah, Tein-Yaw Chung, Analysis of recommendation algorithms for Internet of things. IEEE Wireless Communications and Networking Conference (WCNC) 2016, Apr.
 6. Ibrahim Mashal, Osama Alsaryrah, Tein-Yaw Chung. Toward service recommendation in Internet of Things. The seventh International Conference on Ubiquitous and Future Networks (ICUFN 2015), IEEE, Japan.
 7. Tein-Yaw Chung, Osama Alsaryrah, Ibrahim Mashal, and Chih-Hsiang Chang. Social Web of Things Services Fault Handling and Queuing Scheduling. The seventh International Conference on Ubiquitous and Future Networks (ICUFN 2015), IEEE, Japan.
 8. Tein-Yaw Chung, Ibrahim Mashal, Osama Alsaryrah, Chih-Hsiang Chang, Tsung-Hsuan Hsu, Pei-Shan Li, Wen-Hsing Kuo. MUL-SWoT: A Social Web of Things Platform for Internet of Things Application Development. IEEE Internet of Things (iThings), 2014 IEEE International Conference on, and Green Computing and Communications (GreenCom), IEEE and Cyber, Physical and Social Computing (CPSCom), 2014, Taiwan.
 9. Tein Yaw Chung, Ibrahim Mashal, Sheng-Wen Lai, Osama Alsaryrah. LGBM: Line Graph-Based Multicast over VANETs. The 11th IEEE Vehicular Technology Society Asia Pacific Wireless Communications Symposium, 2014, Taiwan.
 10. Tein-Yaw Chung, Ibrahim Mashal, Osama Alsaryrah, Tsung-Hsuan Hsu, Chih-Hsiang Chang, Wen-Hsing Kuo. Design and implementation of lightweight smart home gateway for Social Web of Things. The sixth International Conference on Ubiquitous and Future Networks (ICUFN 2014), IEEE, China.
 11. Tein-Yaw Chung, Ibrahim Mashal, Osama Alsaryrah, Van Huy, Wen-Hsing Kuo, Dharma P Agrawal. Social Web of Things: A Survey. International Conference on Parallel and Distributed Systems (ICPADS), 2013, IEEE, Seoul, Korea.
 12. Tein-Yaw Chung, Ibrahim Mashal, Fong-Ching Yuan, Yuan-Hao Chiang, Osama Alsaryrah (2013, Jul). A novel multiple attributes decision making approach for multimedia session selection. The Eighth International Multi-Conference on Computing in the Global Information Technology, (ICCGI 2013), France.
 13. Tein-Yaw Chung, Ibrahim Mashal, Fong-Ching Yuan, Yuan-Hao Chiang, Osama Alsaryrah (2013, Jul). A Novel Algorithm for Selecting Multimedia Network Connections in Next Generation Networks. The Eighth International Multi-Conference on Computing in the Global Information Technology, (ICCGI 2013), France