

## CURRICULUM VITAE

**Full name : Mahmoud Eid Farfoura**

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### 1. Personal Data

Nationality: Jordanian

### 2. Education

- Ph.D. (Information Security) 2013, National Taiwan University of Science and Technology, Taipei, Taiwan
- M.Sc. (Computer Science) 2006, Al Balqa'a Applied University, Salt, Jordan
- B.Sc. (Computer Science) 1998, Princess Sumaya University for Technology, Amman, Jordan

### 3. Ph.D. Dissertation

Advanced Digital Watermarking Techniques for Copyright Protection and Content-authentication of Different Digital Media (Relational Databases & H.264/AVC Compressed Video), National Taiwan University of Science and Technology, Taipei, Taiwan.

### 4. Employment

#### Academic Positions

- Assistant Professor, Department of Science and Information Technology Science,



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Al-Zaytoonah University of Jordan, Amman, Jordan  
Sept 15, 2023 – Now

- Assistant Professor, Department of Computer Science, Applied Science Private University, Amman, Jordan  
Sept 15, 2022 – Sept 15, 2023

### **Administrative Positions**

- Project Manager/ Senior Data Scientist Specialist, Royal Scientific Society, Amman, Jordan – 2020-2022.
- Project Manager/ Senior System Analyst, Royal Scientific Society, Amman, Jordan – 2014-2020
- System Analyst, Royal Scientific Society, Amman, Jordan – 2004-2013
- Developer, Royal Scientific Society, Amman, Jordan – 1998-2004

### **5. Research Interests**

My recent research activities include but not limited to developing novel algorithms for protecting relational databases and various multimedia contents such as compressed domain video namely H.264/AVC standard. The algorithms mainly attempt to protect the sender and the media content at the same time thru fragile, semi-fragile and robust watermarking. Although my dissertation focuses on a single topic, other areas that interest me in a broad sense are 1) Image and video processing 2) Digital watermarking and information hiding 3) Video coding and compression 4) Cryptography and coding 5) Machine Learning and 5) Bioinformatics.

### **6. Membership in Scientific Societies and Associations**

Member in Jordanian Software Testing Qualifications Board (JOSTQB).

### **7. Honors and Awards**

### **8. Fellowships and Scholarships**

Scholarship from the National Science Council - Taiwan Government to study PhD in National Taiwan University of Science and Technology, Computer Science and Information Engineering Department during the Years 2008-2013, excellence grade.

### **9. Teaching Experience**

- *Graduate Courses*



- ***Undergraduate Courses***

- Computer Skills
- Artificial Intelligence
- Software Testing
- Project Management
- User Experience Design
- Web Programming (HTML, CSS and JS)
- Information Security
- Object Oriented Programming using C++
- Visual Programming VB.NET
- Management Information Systems
- Database for Management Information Systems
- Data and Information Security
- Python for Cybersecurity

#### **10. Supervision of Graduate Research**

#### **11. Grants**

#### **12. Patents**

#### **13. Membership of Committees**

- **National and International**
  - Scientific Committee for Control, Informatics and its Applications Conference (IC3INA 2014, IC3INA 2015, 2018, 2019).
- **University**
  - Research Center for Data and Information Science, BRIN, Indonesia

#### **14. Professional and Scientific Meetings**

##### ***Scientific Meetings Organized***

- COMSATS-ISESCO-INIT International Workshop on “Internet Security: Enhancing Information Exchange Safeguards” Sept. 16-20, 2012. Amman, Jordan.

##### ***Participation in Scientific meetings***

- IEEE International Symposium on Parallel and Distributed Processing with Applications, Taiwan, Sept, 2010.



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- Electronic Government Accounting Conference, 3 Days, Amman, 2006
- Instructional Design, Comprehensive Training Course, 70-Days, Tokyo-Japan, 2000.

### **15. Participation in or organization of curricular and/or extra-curricular activities**

### **16. Publications**

- Y. Alshamaila, F. M. Abu Awwad, R. Masa'deh, and **M. E. Farfoura**, "Complexities, Challenges, and Opportunities of Mobile Learning: A Case Study at the University of Jordan," Sustainability, MDPI, vol. 15(12), pages 1-24, June 2023.
- **M. E. Farfoura**, O. Khashan, H. Omar, Y. Alshamaila, N. A. Karim, Hsiao-Ting Tseng and M. Alshinwan, "A Fragile Watermarking Method for Content-Authentication of H.264-AVC Video", Journal of Internet Services and Information Security, DOI: 10.58346/JISIS.2023.I2.014, Volume 13, Issue 2, 211-232, Jun 2023.
- Ali Al-Haj and **M. E. Farfoura**, "Providing Security for E-Government Document Images Using Digital Watermarking in the Frequency Domain", Measurement, 2019 5th International Conference on Information Management (ICIM), 2019.
- Ayoup M.Ghrair, Othman A.Al-Mashaqbeh, Mohmd K.Sarireh, Nedal Al-Kouz, **M. E. Farfoura** and Sharon B.Megdalc, "Influence of grey water on physical and mechanical properties of mortar and concrete mixes", Ain Shams Engineering Journal, Vol. 9, No 4, pp 1519-1525, 2018.
- Ali Al-Haj, **M. E. Farfoura**, and Ahmad A. Mohammad, "Transform-Based Watermarking of 3D Depth-Image-Based-Rendering Images", Measurement, Vol. 95, pp.405-417, Jan 2017.
- **M. E. Farfoura**, Shi-Jinn Horng, Jing-Ming Guo, and Ali Al-Haj: "Low complexity semi-fragile watermarking scheme for H.264/AVC authentication", Multimedia Tools and Applications, May, 2015.
- Jing-Ming Guo, Heri Prasetyo, **M. E. Farfoura**, and Hua Lee: "Vehicle Verification Using Features from Curvelet Transform and Generalized Gaussian Distribution", Transactions on Intelligent Transportation Systems, Vol. 16, No. 4, pp. 1989-1998, 2015.
- **M. E. Farfoura**, Shi-Jinn Horng, Pingzhi Fan, Xian Wang, Tianrui Li, and Jing-Ming Guo: "A low cost fragile watermarking scheme in H.264/AVC compressed domain", Multimedia Tools and Applications, Vol. 72, No. 3, pp 2469-2495, 2013.
- Nisreen Al-Hmoud, Nawar Al-Husseini, **M. E. Farfoura**, Hiyam Al-Rousan, Eric Kübler, and Mohammed A. Ibrahim: "Unconventional P-35S sequence identified in genetically modified maize", GM Crops & Food, Dec., 2013.



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- **M. E. Farfoura**, Shi-Jinn Horng, Jui-Lin Lai, Ray-Shine Run, Rong-Jian Chen, and Muhammad Khurram Khan: “A blind reversible method for watermarking relational databases based on a time-stamping protocol”, Expert Systems with Applications, Vol. 39, No. 3, pp. 3185-3196, 2012.
- **M. E. Farfoura**, Shi-Jinn Horng, and Xian Wang: “A Novel Blind Reversible Method for Watermarking Relational Databases”, Journal of the Chinese Institute of Engineers, Vol. 36, No. 1, pp. 87–97, 2012.
- **M. E. Farfoura**, and Shi-Jinn Horng: “A Novel Blind Reversible Method for Watermarking Relational Databases”, ISPA 2010: pp. 563-569.
- Jui-Sheng Chou, Chien-Kuo Chiu, **M. E. Farfoura**, Ismael Taharwee: “Optimizing the Prediction Accuracy of Concrete Compressive Strength Based on a Comparison of Data Mining Techniques”, Journal of Computing in Civil Engineering, Vol. 25, No. 3, pp. 242-253, 2011.