



May Itani

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● EDUCATION

- October 2011- June 2017:

PhD Degree in Computer Science, **Beirut Arab University**.

PhD Dissertation Entitled 'Distributed Data Storage Optimization using Erasure Coding'

- October 2001 - February 2004:

Master Degree in Computer and Communications Engineering, American University of Beirut

Master Thesis Entitled 'Cryptographic Algorithms on a Reconfigurable Computer System_MorphoSys :_Algorithm Mapping and Performance Behavior".

- October 1995 – June 1999:

Bachelor Degree in Electrical Engineering, American University of Beirut

- June 1995: Lebanese Bac II – Math

● SKILLS

Language Skills

English & Arabic: Excellent read, written and spoken

Teaching Skills

Teaching university level courses for *twenty-five* years. This included teaching courses independently, teaching coordinated courses and giving labs.

Digital Skills

Microsoft Word - Excel - Powerpoint| C | C++ | Java | Python | Verilog | Assembly | Matlab

● WORK EXPERIENCE

- Fall 2020 - Present:

Assistant Professor at Beirut Arab University, Computer Science Department

- ✓ CMPS241 Introduction to Programming
- ✓ CMPS244 Digital Systems Design with Verilog programming
- ✓ CMPS248 Discrete Structures I
- ✓ GRAD306 Web Design
- ✓ CMPS343 Computer Organization and Architecture
- ✓ CMPS345 Discrete Structures II
- ✓ CMPS346 Theory of computation
- ✓ BMIS403 Web Applications Design & Implementation
- ✓ CMPS443 Senior Project I
- ✓ CMPS444 Senior Project II
- ✓ CMPS445 Concepts of Programming Languages
- ✓ CMPS447 Computer Networks
- ✓ CMPS453 Artificial Intelligence
- ✓ CMPS455 Computer Security
- ✓ CMPS642 Advanced Automata Theory and Formal Languages
- ✓ CMPS680 Individual Studies
- ✓ CMPS682 Research Techniques
- ✓ CMPS715 Emerging Topics in Artificial Intelligence

- Fall 2019 :

Part time Faculty at **American University of Beirut**, Electrical and Computer Engineering Department.

- ✓ Programming for Engineers
- ✓ Numerical Computing with Matlab

- Fall 2012 – Fall 2018:

Part time Faculty at Lebanese American University, Computer Science Department.

- ✓ Computer Organization and Assembly language
- ✓ Digital Systems Design with Verilog programming

- September 1999 – Fall 2011 :

Part time Instructor at **Beirut Arab University**. Teaching labs and problem solving tutorial sessions. Faculties of Science and Engineering.

- ✓ Operations Research
- ✓ Introduction to programming using Java/C++
- ✓ Data Structures (C++)
- ✓ Object Oriented programming
- ✓ Computer Organization and Assembly language
- ✓ Digital Systems Design with Verilog programming

- ✓ Theory of computation
- ✓ Computer Networks

- September 2002 – February 2004:

Graduate Assistant at the **American University of Beirut**. Research and lab assistance work.

- ✓ Microprocessor Lab
- ✓ Analog Electronics Lab
- ✓ Feedback Control Lab

- June 1998 – September 1998:

Training Experience in the Electrical department – Khatib and Alami Consulting Company.
Kind of work: Lighting design, power calculations, load estimation,...

● **AWARDS & SCHOLARSHIPS**

Recipient of « HARIRI FOUNDATION » scholarship for undergraduate study at AUB

Recipient of the « Charli Kurban Award in Recognition of Outstanding Academic Record » during graduate study at AUB

● **SEMINARS & WORKSHOPS**

- Amman – Jordan – December 2022

Attended a workshop on Education Transformation entitled “Computer Science: Game Design & Programming” that took place at Princess Sumaya University for Technology (PSUT) in Amman, Jordan on 28-30 November 2022 under “Erasmus: ELEGANT” project.

- BAU - February 2023 : Participation in community and cultural activities

Presented in Astronomy Event “Explore MARS Rover” held on February 2023 by ASME and BAU Astronomy Club

- BAU – March 2023

Attended Erasmus+ CBHE ELEGANT Project “Enhancing Teaching, Learning and Graduate Employability through University-Enterprise Cooperation” on March 7th, 2023

- Pisa – Italy – June 2023

Attended an advanced course in Robotics & Artificial Intelligence Workshop at the University of Pisa (UNIFI) in Pisa, Italy on June 19-23, 2023, under DeCAIR Erasmus Plus project.

- Beirut – Lebanon – MUBS University – July 2023

Attended Erasmus+ Elegant Workshop on Advanced Security and Connectivity

- BAU - January 2024

Presented in Seminar series Talk

-Mathematical Modeling and Heuristic Optimization

- BAU – April 2024

Presented in Artificial intelligence Workshop organized by BAU Research

- The Future of Academia in Light of Artificial Intelligence

- Attending all faculty seminars in seminar series during the academic year 2023-2024

• LIST OF PUBLICATIONS

- Itani M. and Sharafeddine S., "Toward Industrial Metaverse: A High Fidelity Digital Twin for IIoT With Optimized Age-Accuracy Tradeoff," in IEEE Access, vol. 12, pp. 104242-104253, 2024, doi: 10.1109/ACCESS.2024.3434630.
- Itani M. Towards Reliable V2X Service Using UAV-Aided Coded Content Caching. In 2023 16th International Conference on Developments in eSystems Engineering (DeSE) 2023 Dec 18 (pp. 413-417). IEEE.
- Itani, M; Abu Daher, L.; Hammoud A. 2023, Dec. Towards Digital Twins for Optimizing Metrics in Distributed Storage Systems: A Review. BAU Journal of Science & Technology, 1(5), 2023.
- Itani, M., Basheer, H. and Eddine, F., 2023, July. Attack Detection in IoT-Based Healthcare Networks Using Hybrid Federated Learning. In 2023 International Conference on Smart Applications, Communications and Networking (SmartNets) (pp. 1-7). IEEE.
- Naous T., Itani M., Awad M., Sharafeddine S. Reinforcement learning in the sky: A survey on enabling intelligence in ntn-based communications. IEEE Access. 2023 Jan 13.
- Basheer, H. and Itani, M., 2023. Zero touch in fog, IoT, and manet for enhanced smart city applications: A survey. Future Cities and Environment, 9(1), p.5.

- M Maad, A Owaydate, M Kojok, F Aboudaher, L Abu Daher, M Itani. A tool for aiding people with disability. *BAU Journal of Science & Technology*, 4 (1), 2022.
- Itani, M., Sharafeddine, S. and ElKabani, I., 2018. Dynamic multiple node failure recovery in distributed storage systems. *Ad Hoc Networks*, 72, pp.1-13.
- Itani, M., Sharafeddine, S. and Elkabani, I., 2017. Dynamic single node failure recovery in distributed storage systems. *Computer Networks*, 113, pp.84-93.
- Itani M., Sharafeddine, S. and Elkabbani, I., 2016, March. Practical single node failure recovery using fractional repetition codes in data centers. In *2016 IEEE 30th International Conference on Advanced Information Networking and Applications (AINA)* (pp. 762-768). IEEE.
- Itani, M., Sharafeddine, S. and Elkabbani, I., 2016, March. Practical single node failure recovery using fractional repetition codes in data centers. In *2016 IEEE 30th International Conference on Advanced Information Networking and Applications (AINA)* (pp. 762-768). IEEE.
- Damaj, I.W., Itani, M. and Diab, H.B., 2006, March. Serpent Cryptography on Static and Dynamic Reconfigurable Hardware. In *AICCSA* (pp. 680-684).
- Itani, M. and Diab, H., 2004, July. Reconfigurable computing for RC6 cryptography. In *The IEEE/ACS International Conference on Pervasive Services, 2004. ICPS 2004. Proceedings.* (pp. 121-127). IEEE.
- Diab, H.B. and Itani, M.A., 2004. Mars cryptography on dynamic reconfigurable systems. *Proceedings of the International Conference on Applied Simulation and Modelling; June 2004; Rhodes; Pages:(433-438).*
- Itani, M. and Diab, H., 2004. Serpent Cryptography on Reconfigurable Hardware. *International Conference on Current Issues in Business and Information Technology, Haigazian University, Beirut, Lebanon, May 2004*