



May Itani



europass

Nationality: Lebanese | **Phone number:** (+961-70949133)

LinkedIn: [may.itani/linkedin](https://www.linkedin.com/in/may.itani/) | **Address:** BEY, LB

Email address: ma.itani@bau.edu.lb, mayitani78@gmail.com

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

Spring 2025 – Present

Associate Professor of Computer Science

Fall 2020 - Spring 2024/25:

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.

- 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**

Receipient 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 – Debbieh Campus - 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”

Yildiz Teknik University – July 2025

Presented in INFUS 2025 conference – « High Fidelity Digital Twin for Intelligent Rescue Response »

International Workshop on Artificial Intelligence for Cybersecurity (AICS 2025) 25-28 November, 2025 | Vienna, Austria

Technical Program Committee Member – paper presenter “A Comparative Study of Credit Card Fraud Detection with Reinforcement Learning”

● **LIST OF PUBLICATIONS**

- Khalaf, Ghofran, May Itani, and Sanaa Sharafeddine. "A UAV-aided digital twin framework for IoT networks with high accuracy and synchronization." *IEEE Transactions on Network and Service Management* (2026).
- Al-Sinji, Leen, et al. "A Comparative Study of Credit Card Fraud Detection with Reinforcement Learning." 2025 3rd International Conference on Foundation and Large Language Models (FLLM). IEEE, 2025.
- A Traboulsi, M Itani, L Abu Daher, A Haidar, " FEDEVD: A federated road traffic event detector from social networks", in BAU Journal-Science and Technology, Dec 2025.
- S. Chamass, L. A. Daher and M. Itani, "An Optimized Approach for Detecting Osteoporosis Using Advanced Machine Learning and Genetic Algorithms," in *IEEE Access*, vol. 13, pp. 214009-214021, 2025, doi: 10.1109/ACCESS.2025.3642471.
- Loubany A., Itani M. and Sharafeddine S., "From Age of Information to Age of Digital Twin: A Review on Synchronization Metrics for IoT Networks," in *IEEE Access*, vol. 13, pp. 131102-131119, 2025, doi: 10.1109/ACCESS.2025.3591589.
- Itani M. , "A High Fidelity Digital Twin for Intelligent Rescue Response ", in *Intelligent and Fuzzy Systems. INFUS 2025. Lecture Notes in Networks and Systems*, vol 1530. Springer, Cham. <https://doi.org/10.1007/978-3-031-98565-2>

- 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.

