Abbas A. Tarhini

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Information Technology and Operations Management
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Biography

Abbas A. Tarhini is an associate professor at the Information Technology and Operations Management Department at the Lebanese American University (LAU). He received his BS and MS in Computer Science from the Lebanese American University, Lebanon and his PhD in Information Systems from University of Reims, France. Dr. Tarhini is a member of the Association for Information Systems (AIS) and an honorable member of the Beta Gamma Sigma honor society. He is the past president of the Middle East and North Africa Association for Information Systems (MENA-AIS), the AIS MENA chapter and the President of the Lebanese Association for Information Systems (AIS Lebanon chapter) and the VP for research at the association of Information and Communication Technologies in Organizations and Society (ICTO), France. He is on the steering committees of a number of international conferences and on the editorial board of the Journal of Innovation and Knowledge and the Journal of Computers & Industrial Engineering. His research interests include applications of data analytics and Artificial Intelligence, ICT adoption and implementation, Web-enabling analytics, software and security, distributed systems synchronization, and stochastic search algorithms and heuristics relevant for finding solutions to business problems like vehicle routing, cross docking and task scheduling. His research is published in recognized journals including IEEE Transactions on Intelligent Systems, Journal of Business Research, Technological Forecasting and Social Change, Annals of Operation Research, Journal of Enterprise Information Management, Journal of Innovation & Knowledge and more.

Education

PhD in Information Systems, December 2005
University of Reims, France
Dissertation: Designing and testing component-based real time information systems

Mater of Science in Computer Science, June 1997
Lebanese American University, Lebanon
Thesis: Simulated Annealing and Genetic Algorithms for Exam Scheduling

Bachelor of Science in Computer Science, June 1994
Lebanese American University, Lebanon
Capstone Project: Multimedia information system: Lebanon – the pearl of the east

Academic Experience

Lebanese American University, Beirut, Lebanon, August 2016 –Present
Associate Professor, Department of Information Tech. and Operation Management, Adnan Kassar School of Business

- Mentor, Financial Academy (SAMA KSA): Design a technical course on Open Banking, 2024.
- Mentor, Hackathon on Open Banking at the Financial Academy (SAMA KSA), February 2024.

- Mentor on the vertically integrated projects (VIP) under the MEPI-TLP program.
- Chair, University Admissions and Financial Aid Council (UAFAC), 2024 – present.
- Chair, ITOM Program Assessment Committee, 2024
- Member, AI Taskforce Committee, 2023 – present.
- Member, PhD Program Review Committee, 2024.
- Member, AKSOB Promotion Committee, 2024-2025.
- Member, AKSOB Undergraduate and Graduate Program Review Committee, 2024-2025.
- Member, AKSOB Undergraduate Admission Council, 2023- present.
- Member, MS in Data Analytics Admission Committee, 2025.
- Coordinator, AKSOB – Student Recruitment Office Events, 2024 – present.

Assistant Professor, Department of Information Tech. and Operation Management, Adnan Kassar School of Business
- Mentor on the vertically integrated projects (VIP) under the MEPI-TLP program.
- Participating in a research cluster on capacity building in emergency response in partnership with the Lebanese Red Cross.
- Co-leading a research project on 5IR – the 5th industrial revolution in partnership with the University of Saint Joseph, Lebanon.
- Leading a research study on blockchain in the security and defense sector: towards a trustworthy supply chain system for the Lebanese Armed Forces.
- Leading a research project on mobile clinics resource optimization during COVID19 pandemic.
- Serving as the advisor of the Beta Gamma Sigma (BGS) Honorable Society - AKSOB, LAU, 2017 – present
- Served on the NECHE Academic Standard Sub-Committee.
- Served on the advisory committee for the Center for Teaching and Learning, LAU, 2017 – 2018.
- Served as a faculty fellow of the Center for Innovative Learning, LAU, 2018 – present.
- Served on an ad hoc smart campus committee reporting to the Board of Trustees, Spring 2019.
- Served as AKSOB representative on ad-hoc committee to draft a proposal for an interdisciplinary MS in Data Analytics, 2018.
- Served on ITOM committee to write the curriculum of LAU's minor in data analytics, Spring 2019.
- Served as host for a session on information technology at the AKSOB recruiting day, 16 March 2019.
- Served as host for a session on data analytics and ITM at the AKSOB recruiting day, 22 Feb 2020.
- Served as secretary in Departmental Meetings for the ITOM department, 2017-2018 and 2020-21.
- Served as a secretary on the Program Specific Assessment and Examination Committee, September 2016 - present.
- Served on the AKSOB Undergraduate Admissions Council, September 2018 – present.
- Contributed to the ITOM section of the AKSOB essential knowledge booklet, 2019.
- Worked with the Director of Development at LAU on sponsoring the LCIS 2017 conference held at LAU with 5,000 USD.
- Participated in several seminars and workshops on 'designing online courses for meaningful learning', 'synchronous versus asynchronous learning', and 'Active Learning Tools in Online Teaching and Learning', 2019 – 2020.
- Provided one-to-one support on online learning to LAU faculty members from different schools including AKSOB, school of medicine, School of nursing, school of arts and sciences and school of engineering, 2019 -2020.

Teaching:
- Taught ITM211 – Information Technology Management (Fall 2016 – Present)
- Redesigned and Taught ITM302 – Data and Information Management (Fall 2016 – Present)

A. Tarhini; 2025

- Taught ITM420 – System Analysis and Design (Fall 2016 – Present)
- Designed and Taught ITM398B –Web Analytics and Development (Spring 2017/2018/2019)
- Co-Designed BDA211- Introduction to Applied Data Analytics, CIL Summer 2019 workshop
- Co-Designed and Taught ITM 880I - Business Analytics for Competitive Advantage (Spring 2020)
- Designed the course: Forensic Data Analytics
- Advised two MBA thesis students as primary advisor; served on eight thesis committees.
- Advised one MBA projects as primary advisor.

Lebanese American University, Beirut, Lebanon, September 2014 – July 2016
Visiting Lecturer, Department of Information Tech. and Operation Management, Adnan Kassar School of Business
- Initiated the idea of and participated in a research project on capacity building in emergency response in partnership with the Lebanese Red Cross.

Teaching
- Designed and Taught ITM401- Information Security & Protection (Fall 2014 - Spring 2016)
- Redesigned and Taught ITM201 – Computer Programming (Fall 2014, Fall 2015)
- Redesigned and Taught ITM420 – Systems Analysis and Design (Spring 2015, Spring 2016)
- Taught ITM211 – Info. Tec. Mgt. (Fall 2014 - Spring 2016)

Lebanese American University, Beirut, Lebanon, October 2006 – June 2014
Part-time instructor, Department of Information Tech. and Operation Management, Adnan Kassar School of Business and Department of Computer Science and Mathematics
- Taught CSC722 – Distributed Systems (MS)
- Taught CSC791 – Advanced Software Engineering (MS)
- Taught ITM211 - Information Technology Management
- Taught CSC234 – Intro. To Object Oriented programming
- Taught CSC245- Objects and Data Abstraction
- Taught CSC310 - Algorithms and Data Structures
- Taught CSC320- Computer Organization
- Taught CSC375- Database Management Systems
- Taught CSC490 - Software Engineering
- Taught CSC443- Web Programming
- Taught CSC242 – Intro. To Computing

American University of Science and Technology, Beirut, Lebanon, October 2006 – June 2014
Part-time instructor, Department of Computer Science
- Participated in updating the computer science curriculum
- Taught Programming I
- Taught Programming II
- Taught Algorithms and Data Structures
- Taught Computer Organization
- Taught Web Programming
- Taught Distributed Systems (MS)
- Taught Advanced Topics in Software Engineering (MS)

Professional Affiliations and Activities

- Chair, VIP Consortium Program Chair, Georgia Tech University, Atlanta, USA, May 2025
- Guest Editor, Meet the Editors Workshop, Journal of Innovation & Knowledge (Q1), 2025

A. Tarhini; 2025

- Guest Editor, Paper Development Workshop – Guest editor for Journal of Asia Business Studies – Leonardo Davinci Research Center (Paris), June 2024.
- General Track Chair - MCIS and MENACIS 2023, IE University, Madrid, September 6-9, 2023.
- Keynote at Swansea University, Wales, UK – Research seminar series. Topic: Paving the Pathways Towards Sustainable Competitiveness, November 3, 2023.
- VIP Consortium Steering Committee, Georgia Tech University, Atlanta, USA, May 2023.
- Research Visiting Scholar – Moffitt Cancer Center- Machine Learning Department, May 2022
- Jury member - LAU VIP+ Innovation Showcase Competition sponsored by US Department of State, MEPI-TLP, April 2022.
- President of the Lebanese Chapter of the Association for Information Systems (AIS), 2022.
- Program co-chair of the MENA Conference on Information Systems, Dahran, KSA, 2022.
- Chair of the Ethics committee of the MENA chapter of the Association for Information Systems (AIS), 2022
- President of the MENA chapter of the Association for Information Systems (AIS), 2018 – 2020.
- Co-founder of the ICTO alliance that comprises eight of the most active AIS chapters in AIS region 2.
- Treasurer of the Arab Computer Society (ACS), 2017 – Present.
- Secretary of the Lebanese Association for Information Systems (LAIS), 2017-2018.
- Member of the editorial board of the Journal of Innovation and Knowledge, 2018 – present.
- Steering committee member of the ACIEK Academy, 2017 - present.
- Organizing co-chair of the PACIS 2020 international conference, Dubai, June 2020.
- Steering committee member and track chair of the Artificial Intelligence in Security and Defence Conference (AISD 2019), The Research and Strategic Studies Centre (RSSC) of the Lebanese Armed Forces, Beirut, March 2019.
- Steering committee member of the Cognitive Analytics Management Conference (CAM 2018), Beirut, 2018.
- Representative for the ACIEK Academy Legates in Arab Countries, 2018 – Present.
- Member of the International Program Committee and Editorial Board of the International Conference on Electronic Business (ICEB).
- Member of the editorial board of the Journal of Computers & Industrial Engineering, 2020.
- Vice president for Research for the Information and Communication Technologies in Organizations and Society (ICTO), Paris, 2018 – 2019.
- Program chair of the Lebanese Conference on Information systems (LCIS 2017), Beirut, April 2017.
- Keynote speaker at the MENACIS 2020 conference, Morocco, December 3, 2020.
- Panellist at a brainstorming session on 'Data to Decisions' at Mindsets, Beirut, June 2019.
- Speaker at the UN ESCWA Technovation Seminar Series, Talk on Internet of Things & Cloud Computing: A Practical Introduction, March 2019.
- Member of Institute for Operations Research and the Management Sciences (INFORMS), 2019 – present.
- Organized an event on "Artificial intelligence impact on society- Are Robots Coming for Our Jobs?" in coordination with the Betta Gama Sigma society, LAU, October 2018.
- Keynote speaker at the Association of Academic Health Centers International (AAHCI) meeting on Transformation of Medical Education in the New Era, School of Medicine, AUB, Talk on: "The Role of Artificial intelligence on Personalized Medicine", September 2018.
- Interviewed and assessed candidates for Part-time faculty at ITOM and the supervisors for the Beirut and Byblos Academic Computer Center (2015-2018).

Review Activities:
- Reviewer, IEEE Access, (2019).

A. Tarhini; 2025

- Reviewer, Journal of Business Research, (2019 – 2020).
- Reviewer, IEEE Transactions on Intelligent Transportation Systems, (2017 - 2020)
- Reviewer, Journal of Innovation & knowledge, (2020)
- Reviewer, Journal of Enterprise Information Management (2020, 2021)
- Reviewer, Technological Forecasting & Social Change (2019, 2020, 2021)
- Reviewer, International Journal of Hospitality Management (2019)
- Reviewer, Annals of Data Science(2020)
- Reviewer, International Conference on Electronic Business (2018, 2019)
- Reviewer, IEEE Transactions on Services Computing (2013)
- Reviewer, Innovation, Entrepreneurship and Knowledge Academy (2019)

Session Chairing Activities
- Information and Communication Technologies in Organizations and Society (ICTO 2020/2022/2023/2024/2025).
- Mena Conference of the Association for Information Systems (MENACIS 2021/2022/2024)
- The Pacific Asia Conference on Information Systems (PACIS 2020).
- Artificial intelligence in security and defense (AISD 2019).
- Information and Communication Technologies in Organizations and Society (ICTO 2019).
- Innovation, Entrepreneurship and Knowledge Academy (INEKA 2019).
- International Conference on Organization and Management (ICOM 2018).
- Lebanese Conference for Information Systems (LCIS 2017).
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Track Chair Activities
- Track chair – Track: Digital transformation and Social Impact in the MENA Region, the PACIS 2020 international conference, Dubai, June 2020.
- Track chair – Track: Technology, organizations and society, Artificial intelligence in Security and defence (AISD2019). March 26, 2019

Editorial – Guest editor
- **Tarhini, A**., Dabbous, A., Harfouche, A. and Wamba, S.F. (2025), "Editorial for the special issue: "Digital transformation for societal sustainability and human betterment in Asian countries: strategies, challenges, and impact"", Journal of Asia Business Studies, Vol. 19 No. 3, pp. 583-585. https://doi.org/10.1108/JABS-05-2025-696

- **Tarhini, A.**, Harfouche, A., and De Marco, M. (2022). Artificial Intelligence-Based Digital Transformation for Sustainable Societies: The Prevailing Effect of COVID-19 Crises, Pacific Asia Journal of the Association for Information Systems, 14(2), DOI: 10.17705/1pais.14201

- **Tarhini, A.** and Harfouche, A. (2018). ICT for a better life and a better world, *International Journal of Services and Standards*, 12(2), https://www.inderscience.com/info/dl.php?filename=2018/ijss-5718.pdf

PhD Dissertation co-advisor / first reader
- Kassem Danach, Phd candidate at Ecole Centrale de Lille, Lille, France, 2016.

- Yara Attallah, PhD Dissertation title: "Redefining Adaptability and Social Exchange Dynamics in the Technological Workplace: A Comprehensive Study", Renne School of Business, France 2024

Industry Experience & Consulting Services

- Consultant at LAU Industrial Hub– WiFast project: IOT Asset Tracking & Monitoring application
- Consultant at LAU Industrial Hub– VBOUT project: Multichannel AI Chatbot for VBOUT marketing platform.
- Consultant at LAU Industrial Hub– Wakilni project: Innov-R&D-Cohort7 -AI-Driven Customer Support Optimization.
- Consultant at LAU Industrial Hub– Elephants Ride project: Enhancing Elephants Ride's Efficiency and Sustainability through AI-powered solutions.
- Conducted a Hackathon on Open Banking at the Saudi Financial Academy sponsored by SAMA, kingdom of Saudi Arabia, 2024.
- Consulting – LCWAIKIKI Congo: IT & Operations Management, (2018).
- Consulting - Adnan al-Zurufi - governor of Najaf Governorate: Presented on a road map for establishing the "American University in Al Najaf" – Iraq, (2015).
- Consulting - Al Sheikh Anas Alkarout: Business process reengineering for Rafic Hariri University, Al Mechref – Lebanon, (2012).
- Consulting- Management & Engineering Co., Kinshasa: Operations Management including the relation with labor service provider companies, (2011-2015)
- Consulting- AfriPile, Kinshasa: Operations Management including the relation with labor service provider companies, (2013 -2015)
- Matrix Design Co., Lebanon - Operations Manager, (2012-2014)
- Founder and Manager of Future Media Center, Lebanon – IT Solutions, (1999-2002)
- Military Service at the Lebanese Armed Forces – Center of Automation & Military School, (1998)
- Lebanese American University, Graduate assistant - Registrar office, (1996-1997)
- Automation Company- programmer, (1995).
- Bank Beirut Al-Riyadh- programmer, (1994).

Professional Development

- Participated in the Data Science and Machine Learning boot camp, Beirut AI, December 2020.
- Participated in the "Blackboard-Fundamentals of digital teaching and learning" workshop, LAU, July 2019.
- Participated in the Professional Paper Development Workshop, LAU, May 2019.
- Participated in the Joint Faculty Qualifications Development Workshop, USEK-LAU, July 2018.
- Participated in a workshop on Statistical Learning Methods and Data Visualization, LAU, 2017.
- Participated in the Big Data and social intelligence, University of Saint Joseph, June 20-22, 2017.
- Participated in the AACSB Assurance of Learning Seminar, LAU, November 2017.
- Participated in the AACSB Best Practices Series, American University of Dubai, April 2017.
- Participated in the "Summer School on Decisional Statistics, Data Mining and Data-driven optimization via search heuristics", Lebanese University, August 2017.
- Participated in the SAP ERP Train the Trainer Workshop, SAP University Alliance, LAU, April 2016.
- Participated in the SAP ERP Training Workshop, SAP University Alliance, American University of Beirut, May 2015.
- Participated in the information security workshop: "A deep walk on the dark side of information security". LAU Software Institute. January 23-24, 2015.

Publications

Refereed Journal Articles

A. Tarhini; 2025

Tarhini, A., Dabbous, A., Harfouche, A. and Wamba, S.F. (2025), "Editorial for the special issue: "Digital transformation for societal sustainability and human betterment in Asian countries: strategies, challenges, and impact"", Journal of Asia Business Studies, Vol. 19 No. 3, pp. 583-585. https://doi.org/10.1108/JABS-05-2025-696.

Tarhini, A., Chedrawi, C., & Khazaal, A. (2024). Exploring the impact of economic crisis on psychological wellbeing and employee performance. Journal of Decision Systems, 1–25. https://doi.org/10.1080/12460125.2024.2421560

Yu, J., Albashrawi, M., & **Tarhini, A.** (2024). The determinants of the loyalty of mobile banking: The integrated model of IS success model and UTAUT. Pacific Asia Journal of the Association for Information Systems, 16(2), 3. DOI: 10.17705/1pais.16203. Available at: https://aisel.aisnet.org/pajais/vol16/iss2/3

Dabbous, A., Barakat, K. A., & **Tarhini, A.** (2024). Digitalization, crowdfunding, eco-innovation and financial development for sustainability transitions and sustainable competitiveness: Insights from complexity theory. Journal of Innovation & Knowledge, 9(1), 100460. https://doi.org/10.1016/j.jik.2023.100460.

El-Kassar, A. N., Yunis, M. M., Alsagheer, A., **Tarhini, A. A.,** & Ishizaka, A. (2023). Effect of corporate ethics and social responsibility on OCB: The role of employee identification and perceived CSR significance. In Management in the MENA Region (pp. 34-52). Routledge.

Tarhini, A., Harfouche, A., and De Marco, M. (2022). Artificial Intelligence-Based Digital Transformation for Sustainable Societies: The Prevailing Effect of COVID-19 Crises, *Pacific Asia Journal of the Association for Information Systems*, 14(2), DOI: 10.17705/1pais.14201

Tarhini, A. (corresponding), Danach, K. and Harfouche, A. (2022). Swarm intelligence-based hyper-heuristic for the vehicle routing problem with prioritized customers. *Annals of Operations Research*, https://doi.org/10.1007/s10479-020-03625-5

Aoun Barakat, K., Dabbous, A. and **Tarhini, A.** (2021). An empirical approach to understanding users' fake news identification on social media, *Online Information Review*, 45(6), pp. 1080-1096. https://doi.org/10.1108/OIR-08-2020-0333

Tarhini, A., Balozain, P. and Srour, F.J. (2021). Emergency management system design for accurate data: a cognitive analytics management approach, *Journal of Enterprise Information Management*, 34 (2), pp. 697-717. https://doi.org/10.1108/JEIM-11-2019-0366

Dabbous, A., and **Tarhini, A**. (2021). Does sharing economy promote sustainable economic development and energy efficiency? Evidence from OECD countries, *Journal of Innovation & Knowledge*, 6(1), pp. 58-58 https://doi.org/10.1016/j.jik.2020.11.001

El-Kassar, A., Yunis, M., Alsagheer, A., **Tarhini, A.** & Ishizaka, A. (2021). Effect of corporate ethics and social responsibility on OCB: the role of employee identification and perceived CSR significance, International Studies of Management & Organization, 51(3), pp.218-236, DOI: 10.1080/00208825.2021.1959880

Dabbous, A. and **Tarhini, A. (corresponding)** (2019). Assessing the impact of knowledge and perceived economic benefits on sustainable consumption through the sharing economy: A sociotechnical approach. *Technological Forecasting and Social Change* 149(1). https://doi.org/10.1016/j.techfore.2019.119775

Chedrawi, C., Howayeck, P. and **Tarhini, A.** (2019). CSR and legitimacy in higher education accreditation programs, an isomorphic approach of Lebanese business schools. *Quality Assurance in Education*, 27 (1), pp.70-81. https://doi.org/10.1108/QAE-04-2018-0053

Tarhini, A. (corresponding), Tarhini, J. and Tarhini A.M. (2019). Information Technology Adoption and Implementation in Higher Education: evidence from a case study in Lebanon. *International Journal of Educational Management*, 33(7), pp. 1466-1482, https://doi.org/10.1108/IJEM-04-2018-0144

Tarhini, A. (corresponding), Yunis, M. and El-Kassar, A. (2018). Innovative Sustainable Methodology for managing in-house Software Development in SMEs", *Benchmarking: An International Journal*, 25(3), pp. 1085-1103, https://doi.org/10.1108/BIJ-05-2017-0103

Yunis, M., **Tarhini, A. (corresponding)** and El-Kassar, A. (2018). The role of ICT and innovation in enhancing organizational performance: The catalysing effect of corporate entrepreneurship. *Journal of Business Research*, 88, pp. 344-356, https://doi.org/10.1016/j.jbusres.2017.12.030

Yunis, M., El-Kassar, A. and **Tarhini, A.** (2017). Impact of ICT-based innovations on organizational performance: The role of corporate entrepreneurship, *Journal of Enterprise Information Management*, 30(1), pp. 122-141, https://doi.org/10.1108/JEIM-01-2016-0040

Tarhini, A. (corresponding), Yunis, M. and M. Chamseddine, (2016). Natural Optimization Algorithms for the Cross-Dock Door Assignment Problem, *IEEE Transactions on Intelligent Transportation Systems, 17(8),* pp. 2324-2333, DOI: 10.1109/TITS.2016.2519104

Tarhini, A., Mansour, N., Fouchal, H. (2010). Testing and Regression Testing for Web Services Based Applications. *International Journal of Computing & Information Technology* 2(2), pp.195–217.

Fouchal, H., Rollet, A., and **Tarhini, A.** (2010). Robustness testing of composed real-time systems. Journal Computational Methods Science and Engineering, 10(2), 135-148, DOI: 10.3233/JCM-2010-0274

Mansour, N., Siblini, R., and **Tarhini, A.** (2005). WSDL Mutation for Testing Web Services. International Journal of Computers and Their Applications, 12, 210-216.

Papers Under Review

Tarhini, A., Danach, A. and Harfouche, A. (expected 2023). Mobile Clinics Routing in Response to Covid-19 Outbreak: An Intelligent Variable Neighbourhood Search Approach, Journal of Asia Business Studies.

Papers in Progress

Harfouche, A., **Tarhini, A.**, and Danach, K. Explainable Artificial Intelligence for optimizing Operations of humanitarian NGOs in Emergency Situations: Case of Syrian Refugees in Lebanon, *International Journal of Operations and Production Management* (A, Q1)

Danach, A., **Tarhini, A.** and Harfouche, A. Artificial Intelligence Techniques for Ambulance Travel Time Prediction: A solution to the impact of COVID-19 outbreak on the Emergency Medical Services, International Journal of Information Management (A, Q1).

Book Chapters

Mansour, N., Zeitunlian, H. and **Tarhini, A.** (2013). Optimization Metaheuristic for Software Testing. In: Schütze O. et al. (eds) EVOLVE - A Bridge between Probability, Set Oriented Numerics, and Evolutionary Computation II. Advances in Intelligent Systems and Computing, vol 175. pp. 463-474. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-31519-0_30

Tarhini A., Fouchal H. and Mansour N. (2006). A Simple Approach for Testing Web Service Based Applications. In: Bui A., Bui M., Böhme T., Unger H. (eds) Innovative Internet Community Systems.

IICS 2005. Lecture Notes in Computer Science, vol 3908. Springer, Berlin, Heidelberg. https://doi.org/10.1007/11749776_12

Fouchal H., Rollet A. and **Tarhini A.** (2005) Robustness of Composed Timed Systems. In: Vojtáš P., Bieliková M., Charron-Bost B., Sýkora O. (eds) SOFSEM 2005: Theory and Practice of Computer Science. SOFSEM 2005. Lecture Notes in Computer Science, vol 3381. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-540-30577-4_19

Tarhini A., Fouchal H. (2005) Conformance Testing of Real-Time Component Based Systems. In: Ramos F.F., Larios Rosillo V., Unger H. (eds) Advanced Distributed Systems. ISSADS 2005. Lecture Notes in Computer Science, vol 3563. Springer, Berlin, Heidelberg. https://doi.org/10.1007/11533962_15

Refereed Conference Proceedings and Presentations

Hamzeh, S., **Tarhini**, A., Chedrawi, C. (2025). Can AI Save Us from Burnout? Exploring Developer and QA Engineer Well-Being in Lebanon. The International Conference on Technologies & Organization - AIS affiliated conference, Larochelle, France

Dabbous, A., Dagher, L., Karaki, M., **Tarhini**, A. (2025). Unlocking Sustainable Economic, Environmental and Social Potential in MENA Tourism: Analyzing Meta's Role in Empowering Small and Medium Businesses through Digital Technologies. International Conference on Sustainable Tourism Management (ICSTM 2025), Paris, France.

Tarhini, A., Chedrawi, C., Kazoun, N. (2025). Technology Adoption for Smart Utilities Towards Sustainable Futures: A PRISMA Systematic Literature Review. The International Conference on Technologies & Organization - AIS affiliated conference, La Rochelle, France.

Tarhini, A. (2025). Insights and Impact: Evaluating VIP Programs Across Contexts, VIP Consortium, Georgia Institute of Technology (GT), 2025, Atlanta, USA.

Tarhini, A., ElKhoury, M., Rahme, P., Nasr, G. (2025). Bridging the Gap: Integrating Vertically Integrated Projects (VIP) Courses into University Curricula, June 2025, American Society for Engineers and Education (ASEE), Montreal, Canada.

Rahme, P., Nasr, G., **Tarhini**, A., Elkhoury, M., and Fakhoury, E. (2025). Empowering Innovation and Entrepreneurship: A Cutting-Edge Curriculum Through the VIP+ Program, June 2025, American Society for Engineers and Education (ASEE), Montreal, Canada.

Fakhoury, E., Rahme, P., Nasr, G., **Tarhini**, A., Elkhoury, M. (2025). Integrating Immersive Virtual Reality for Enhanced Learning in Engineering: A Case Study in Higher Education in Lebanon, June 2025, American Society for Engineers and Education (ASEE)

Dabbous, A., **Tarhini, A**., & Harfouche, A. (2023, September). Circulation of Fake News: Threat Analysis Model to Assess the Impact on Society and Public Safety. In 2023 IEEE Explore, International Symposium on Technology and Society (ISTAS) (pp. 1-9). IEEE.

Ali, M., Srour, F.J., Badr, G. N., **Tarhini, A.** (2022). Exploring the System Dynamics of COVID-19 and Reconfiguration of Emergency Medical Services, ITM Web Conf. 41 01004 (2022), DOI: 10.1051/itmconf/20224101004

Dabbous, A. and **Tarhini, A.** (2020). "Does ICT- Enabled Sharing Economy promote Sustainable Development and Energy Efficiency? Evidence from OECD Countries", Proceedings of the Innovation, Entrepreneurship and Knowledge Academy (INEKA). June 2020, Madrid, Spain.

Tarhini, A. Danach, K. (2019). "Artificial Intelligence Techniques for Ambulance Travel Time Prediction: A solution to the impact of coronavirus outbreak on the Emergency Medical Services", The Institute for Operations Research and the Management Sciences (informs), October 19, Seattle, USA.

El-Kassar, A., Yunis, M., and **Tarhini, A.** (2019). CSR, Corporate Ethics, and OCB: the Role of Employee-Company Identification and Perceived CSR Significance. Professional Development Workshop, April 23-24, 2019, Lebanese American University, Beirut, Lebanon.

Tarhini, A. and Chedrawi, C. (2019). "Blockchain in the Security and Defense sector: Towards a trustworthy Supply Chain System", Artificial intelligence in Security and Defence, March 26-29, Lebanese Armed Forces- the Research and Strategic Studies Centre (RSSC), Beirut, Lebanon

Chehab, M., **Tarhini, A.**, Balozian, P. and Fakih, K. (2019). "Legislation of Cyber Law and Digital Forensics in Lebanon", Artificial intelligence in Security and Defence, March 26-29, Lebanese Armed Forces- the Research and Strategic Studies Centre (RSSC), Beirut, Lebanon

Tarhini, A., Danach, K., Harfouche, A., (2018). "Mobile hospitals routing for prioritized patients: an intelligent variable neighborhood search approach". In the Proceedings of the International Conference on Information and Communication Technologies in Organizations and Society (ICTO 2018). October 2018, Paris.

Tarhini, A. and Tarhini, K., (2018). "Organizational Digital Transformation Framework: Towards a Clear Digital Vision and Value Creation". Proceedings of the Innovation, Entrepreneurship and Knowledge Academy (INEKA). June 2018, Spain.

Tarhini, A., F.J. Srour, Badr, N. (2017). "Emergency management system design for accurate data: A case study". In Proceedings of the 17th International Conference on Electronic Business ICEB, Dubai, UAE, https://aisel.aisnet.org/cgi/viewcontent.cgi?article=1012&context=iceb2017

Tarhini, A., Tarhini, J., and Tarhini, A.M. (2017). "Information Technology Adoption and Implementation in Higher Education". International Conference on Organization and Management (ICOM), Abu Dhabi, UAE, November 19-20, 2017.

El-Kassar, A., Yunis, M., and **Tarhini, A.** (2017). "CSR, Corporate Ethics, and OCB: the Role of Employee-company Identification and Perceived CSR Significance". International Conference on Organization and Management (ICOM), Abu Dhabi, UAE, November 19-20, 2017.

Yunis, M., **Tarhini, A.**, and Kassar, A. (2017). "The Role of ICT and Innovation in Enhancing Organizational Performance: The Catalyzing effect of Corporate Entrepreneurship". In the Proceedings of the Global Innovation and Knowledge Academy (GIKA 2017), Lisbon, Portugal, June 28-30, 2017.

Tarhini, A., Yunis, M., and Kassar, A. (2016). "Innovative Sustainable Methodology for Managing in-house Database Application Development in SMEs". International Conference on Organization and Management (ICOM), Abu Dhabi, UAE, November 20-21, 2016.

Yunis, M., **Tarhini, A.**, and Kassar, A. (2016). "Corporate Entrepreneurship: A Mediator in The ICT-Organizational Performance Relationship". Information and Communication Technologies in Organizations and Society (ICTO) 2016, Paris, France, March 3 – 4, 2016. (Paper nominated for best paper award).

Yunis, M., Kassar, A., and **Tarhini, A.** (2015). "Impact of ICT-based Innovations on Organizational Performance: The Role of Corporate Entrepreneurship", The International Conference on Organization and Management (ICOM) 2015, Abu Dhabi, UAE, November 22- 23, 2015.

Shour, A., Danash, K., **Tarhini, A.** (2015). "Modified clarke wright algorithms for solving the realistic vehicle routing problem". In the Proceedings of the 3rd International Conference on Technological Advances in Electrical, Electronics and Computer Engineering, TAEECE 2015, DOI: 10.1109/TAEECE.2015.7113606

Tarhini, A., Makki, J., Chamseddine, M.M.J. (2014). "Scatter search algorithm for the cross-dock door assignment problem", In the Proceedings of the Mediterranean Electrotechnical Conference – MELECON, pp. 444-450, DOI: 10.1109/MELCON.2014.6820575

Fouchal, H., Rollet, A., and **Tarhini, A.** (2009). "Robustness testing on composed timed systems". In the proceedings of the 18th International Conference on Software Engineering and Data Engineering 2009, SEDE 2009, pp. 161-167,

Tarhini, A., Ismail, A. and Mansour, N. (2008). "Regression Testing Web Applications," *International Conference on Advanced Computer Theory and Engineering*, Phuket, 2008, pp. 902-906, doi: 10.1109/ICACTE.2008.82

Tarhini, A. and Fouchal, H. (2006). "Robustness evaluation of real-Time Protocols,"Advanced Int'l Conference on Telecommunications and Int'l Conference on Internet and Web Applications and Services (AICT-ICIW'06), Guadelope, French Caribbean, 2006, pp. 95-95, doi: 10.1109/AICT-ICIW.2006.162.

Tarhini, A., Fouchal, H. and Mansour, N. (2006). "Regression Testing Web Services-based Applications," IEEE International Conference on Computer Systems and Applications, Dubai, UAE, 2006, pp. 163-170, doi: 10.1109/AICCSA.2006.205085

Tarhini, A., Rollet, A. and Fouchal, H. (2005). "A pragmatic approach for testing robustness on real-time component based systems," The 3rd ACS/IEEE International Conference on Computer Systems and Applications, 2005., Cairo, 2005, pp. 143-, doi: 10.1109/AICCSA.2005.1387132.

Fouchal, H., Rabat, C., Rollet, A., and **Tarhini, A.** (2004). Experimental Test Generation for Real-Time Systems. "Proceedings of the 13th International Conference on Intelligent and Adaptive Systems and Software Engineering", IASSE 2004. Nice. pp : 284-289.

Mansour, N., **Tarhini, A.**, and Ishakian, V. (2003). "Three-phase simulated annealing algorithms for exam scheduling," ACS/IEEE International Conference on Computer Systems and Applications, 2003. Book of Abstracts., Tunis, Tunisia, 2003, pp. 90-, doi: 10.1109/AICCSA.2003.1227522.

Tarhini, A. and Mansour N., (1998). Natural Optimization Algorithms for Exam Scheduling, Proceedings of International Conference on Computer Systems, Irbid, IASTED, ACTA Press, pp. 124-127.

Honors and Awards

- Recipient of the Association for Information Systems MENA Chapter **Distinguished Career Achievement Award** (2022): The Distinguished Career Achievement Award is the highest and the most prestigious award given by the MENA-AIS for lifetime career achievements. It recognizes outstanding individuals in the field of information systems.

- Recipient of the Beta Gamma Sigma **Honors Award** for two consecutive years (2018/2019 and 2019/2020).

- Recipient of the Association for information systems (AIS) **Outstanding Chapter Award** for two consecutive years (2018/2019 and 2019/2020).

- Recipient of the Lebanese Armed Forced Commander in Chief **National Merit Award** for the initiative at the Research and Strategic Studies Centre (RSSC) of the Lebanese Armed Forces, 2019.

- Recipient of the **Leadership Award** from the Lebanese Association for Information Systems (L-AIS), Lebanon (2017).

- Recipient of the **Leadership Award** from Information and Communication Technologies in Organizations and Society, Paris, 2018.

- Recipient of the Center for Innovative Learning **Faculty Fellows Award** at the Lebanese American University, 2019.

- Recipient of the **Best Paper Award**, International Conference on Organization and Management (ICOM), Abu Dhabi, UAE, November 19-20, 2017.

Research Interests

- Applications of data analytics and Artificial Intelligence
- ICT adoption and implementation
- Web-enabling analytics, software and security
- Distributed systems synchronization
- Stochastic search algorithms and heuristics relevant for finding solutions to business problems like vehicle routing and task scheduling

Social/Environmental Activities

- Member of the Green Forum Association, (1993-1998)
- Member of the administrative board of the Green Forum, (1996-1997)
- Vice president of the Board of Trusties of the reservist Lieutenants, (1997-1998:
- Founder and member of the administrative board of the Academic Youth Association-Abba, (2000- present)