

Abbas A. Tarhini

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Biography

Abbas A. Tarhini is an Associate Professor and Chairperson of the Department of Information Technology and Operations Management at Lebanese American University (LAU). He received his BS and MS in Computer Science from Lebanese American University, Lebanon, and his PhD in Information Systems from the University of Reims, France.

Dr. Tarhini is a member of the Association for Information Systems (AIS) and an honorary member of the Beta Gamma Sigma honor society. He is the Past President of the Middle East and North Africa Chapter of the Association for Information Systems (MENA-AIS) and currently serves as President of the Lebanese Chapter of the Association for Information Systems (L-AIS). He also served as Vice President for Research at the Information and Communication Technologies in Organizations and Society (ICTO) alliance, France.

His academic and professional activities focus on artificial intelligence, digital transformation, entrepreneurship and innovation ecosystems, intelligent operations systems, and technology-enabled organizational transformation. He plays an active role in interdisciplinary academic initiatives related to AI, innovation, sustainability, doctoral education, experiential learning, and industry-academia collaboration, and has contributed to the development and leadership of entrepreneurship and innovation initiatives at LAU.

Dr. Tarhini has held leadership and organizational roles in several international conferences and academic initiatives, including serving as Program Chair for the VIP Consortium at Georgia Institute of Technology (Georgia Tech), USA. He also serves on the editorial boards of leading journals, including the *Journal of Innovation & Knowledge* and *Computers & Industrial Engineering*, and contributes as a guest editor, reviewer, and organizer of international research and paper development workshops.

His research explores applications of artificial intelligence, analytics, optimization, and intelligent systems in areas including healthcare, emergency response systems, sustainability, security, and operational transformation. His work has been published in leading international journals, including *IEEE Transactions on Intelligent Transportation Systems*, *Journal of Business Research*, *Technological Forecasting and Social Change*, *Annals of Operations Research*, *Journal of Enterprise Information Management*, *Journal of Innovation & Knowledge*, and *Communications of the Association for Information Systems*.

Education

PhD in Information Systems, December 2005

University of Reims, France

Dissertation: Scalable Architectures and Robust Validation of Distributed 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

Academic Experience

Lebanese American University, Beirut, Lebanon,

*Associate Professor & Chairperson, Department of Information Technology and Operations Management
Adnan Kassar School of Business | Associate Professor: August 2022 – Present | Chairperson: September 2026 – Present*

Academic Leadership & Institutional Service

- Chairperson, Department of Information Technology and Operations Management (ITOM), AKSOB, September 2026 – Present.
Provide academic and administrative leadership for the department, including curriculum and program development, faculty coordination, course scheduling and academic planning, assessment and accreditation activities, student engagement, and strategic initiatives.
- Chair, University Admissions and Financial Aid Council (UAFAC), 2024 – present.
- Chair, Strategic Committee on Entrepreneurship and Innovation, AKSOB, 2025 – present.
Lead and contribute to strategic initiatives aimed at strengthening entrepreneurship and innovation across AKSOB, including experiential learning, interdisciplinary collaboration, industry engagement, and development of innovation-oriented academic and ecosystem initiatives.
- Chair, ITOM Program Assessment Committee, 2024.
- Member, Strategic Committee on Family Business, AKSOB, 2025 – present
- Member, Doctoral and Research Impact Committee, AKSOB, 2025 – present.
- Member, PhD/DBA Program Review and Development Committee, 2024 – present.
- 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 (SRO) Events and Outreach Activities, 2024 – present.
- Faculty Fellow, LAU Artificial Intelligence and Cyber Systems (AICS) Research Center.
- Advisor, Beta Gamma Sigma (BGS) Honor Society – AKSOB, LAU, 2017 – present.

Entrepreneurship, Innovation & Strategic Initiatives

- Lead strategic entrepreneurship and innovation initiatives at AKSOB, supporting an integrated ecosystem connecting academic programs, experiential learning, venture development, industry engagement, and interdisciplinary collaboration.
- Lead and contribute to the development of entrepreneurship and innovation platforms connecting students, faculty, industry partners, entrepreneurs, and investors.
- Leading the conceptual development of a proposed AKSOB Venture Studio initiative designed to connect interdisciplinary expertise, industry-defined challenges, technological innovation, intellectual property development, and venture creation.
- Program Chair, VIP Consortium, Georgia Institute of Technology (Georgia Tech), Atlanta, USA, May 2025, May 2026.
- Mentor on the Vertically Integrated Projects (VIP) initiative under the MEPI-TLP program.
- Jury Member, COBE Competition, 2021 – 2025
- Mentor and Judge, Open Banking Hackathon, Financial Academy sponsored by the Saudi Central Bank (SAMA), Kingdom of Saudi Arabia, 2024.

Research & Applied Projects

- Co-leading interdisciplinary initiatives related to artificial intelligence, digital transformation, entrepreneurship, and intelligent systems applications.

- Co-leading a research project on the Fifth Industrial Revolution (5IR) in partnership with Saint Joseph University (USJ), Lebanon.
- Leading research initiatives on blockchain applications in security and defense toward trustworthy supply chain systems for the Lebanese Armed Forces.
- Leading and contributing to AI and optimization projects related to emergency medical systems, healthcare logistics, and operational efficiency.
- Leading research initiatives on intelligent routing and optimization systems for emergency response and mobile clinics.

Teaching & Curriculum Development

- Designed and developed the graduate course Web and Social Media Analytics, integrating social media analytics, web analytics, Python-based data analysis, web scraping, natural language processing, social network analysis, and applied analytics.
- Taught ITM211 – Information Technology Management.
- Redesigned and taught ITM302 – Data and Information Management.
- Taught ITM420 – Systems Analysis and Design.
- Co-designed and taught ITM880I – Business Analytics for Competitive Advantage.
- Contributed to curriculum and academic initiatives related to artificial intelligence, analytics, entrepreneurship, digital transformation, and executive-oriented education.

Student Mentorship & Experiential Learning

- Mentored multidisciplinary student innovation and applied industry projects through VIP and related experiential learning initiatives.
- Advised MBA thesis students and served on several thesis committees.
- Advised MBA applied projects and multidisciplinary student projects.

Lebanese American University, Beirut, Lebanon

Assistant Professor, Department of Information Technology and Operations Management

Adnan Kassar School of Business | August 2016 – July 2022

Academic Leadership & Institutional Service

- Served on the NECHE Academic Standard Sub-Committee.
- Served on the advisory committee for the Center for Teaching and Learning (CTL), LAU.
- Served as Faculty Fellow at the Center for Innovative Learning (CIL), LAU.
- Served on an ad hoc Smart Campus Committee reporting to the Board of Trustees.
- Served as AKSOB representative on the interdisciplinary MS in Data Analytics proposal committee.
- Served on the ITOM committee responsible for developing LAU's Minor in Data Analytics curriculum.
- Served as host and presenter for Information Technology sessions during AKSOB recruitment and outreach events.
- Served as secretary of departmental meetings for the ITOM Department.
- Served on the Program Specific Assessment and Examination Committee.
- Contributed to the ITOM section of the AKSOB Essential Knowledge booklet.
- Collaborated with LAU Development Office on sponsorship activities related to LCIS 2017 conference organization.

Research & Applied Projects

- Participated in a research cluster on capacity building in emergency response in partnership with the Lebanese Red Cross.
- Initiated and contributed to research initiatives related to emergency management systems, healthcare operations optimization, and intelligent operational analytics.
- Participated in interdisciplinary projects related to digital transformation, artificial intelligence applications, and operational optimization.

Teaching Innovation & Faculty Support

- Participated in seminars and workshops on online learning, active learning, synchronous and asynchronous teaching methodologies, and digital pedagogy.
- Provided one-to-one support and mentoring on online teaching and learning practices to faculty members from several LAU schools during the transition to online education.

Teaching & Curriculum Development

- Taught ITM211 – Information Technology Management.
- Redesigned and taught ITM302 – Data and Information Management.
- Taught ITM420 – Systems Analysis and Design.
- Designed and taught ITM398B – Web Analytics and Development.
- Co-designed BDA211 – Introduction to Applied Data Analytics.
- Designed the course: Forensic Data Analytics.

Student Mentorship & Experiential Learning

- Mentor on the Vertically Integrated Projects (VIP) initiative under the MEPI-TLP program.
- Advisor, Beta Gamma Sigma (BGS) Honor Society – AKSOB, LAU.
- Advised MBA thesis students and multidisciplinary student projects.
- Mentored multidisciplinary student innovation and experiential learning activities integrating analytics, technology, and applied business problem-solving.

Lebanese American University, Beirut, Lebanon

*Visiting Lecturer, Department of Information Technology and Operations Management
Adnan Kassar School of Business | September 2014 – July 2016*

Research & Applied Projects

- Initiated and participated in a research project on capacity building in emergency response in partnership with the Lebanese Red Cross.

Teaching & Curriculum Development

- Designed and taught ITM401 – Information Security and Protection.
- Redesigned and taught ITM201 – Computer Programming.
- Redesigned and taught ITM420 – Systems Analysis and Design.
- Taught ITM211 – Information Technology Management.

Lebanese American University, Beirut, Lebanon

Part-time Instructor, Department of Information Technology and Operations Management and Department of Computer Science and Mathematics | October 2006 – June 2014

Teaching

- 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

Part-time instructor, Department of Computer Science | October 2006 – June 2014

Academic Contributions

- Participated in updating the Computer Science curriculum.

Teaching

- 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

Academic Leadership, Professional Associations & International Service

- Program Chair, VIP Consortium Annual Meeting, Georgia Institute of Technology (Georgia Tech), Atlanta, USA, 2025 and 2026. *Led program planning and review for the international annual meeting, coordinating the selection and organization of presentations, workshops, panels, site updates, and collaborative think-tank sessions.*
- Academic Collaboration with the IEEE Society on Social Implications of Technology (SSIT), 2026–Present. *Contributing to the development of collaborative initiatives connecting socio-technical systems, responsible technology, ethics, experiential learning, and student engagement with the VIP Consortium and LAU.*
- Member, VIP Consortium Steering Committee, Georgia Institute of Technology (Georgia Tech), Atlanta, USA, 2023 – present.
- Past President, Middle East and North Africa Chapter of the Association for Information Systems (MENA-AIS), 2018 – 2020.

- President, Lebanese Chapter of the Association for Information Systems (L-AIS), 2022.
- Chair, Ethics Committee of the MENA Chapter of the Association for Information Systems (AIS), 2022.
- Program Co-Chair, MENA Conference on Information Systems (MENACIS), Dhahran, Kingdom of Saudi Arabia, 2022.
- General Track Chair, MCIS and MENACIS 2023 Conference, IE University, Madrid, Spain, September 2023.
- Co-founder of the Information and Communication Technologies in Organizations and Society (ICTO) Alliance comprising 8 leading AIS-affiliated chapters in AIS Region 2.
- Vice President for Research, Information and Communication Technologies in Organizations and Society (ICTO), Paris, France, 2018 – 2019.
- Treasurer, Arab Computer Society (ACS), 2017.
- Secretary, Lebanese Association for Information Systems (L-AIS), 2017 – 2018.
- Member, Institute for Operations Research and the Management Sciences (INFORMS), 2019 – present.
- Member, Association for Information Systems (AIS).
- Honorary Member, Beta Gamma Sigma (BGS) Honor Society.

Editorial Leadership, Guest Editing & Research Development Activities

- Editorial Board Member, Journal of Innovation & Knowledge, 2018 – present.
- Editorial Board Member, Computers & Industrial Engineering, 2020 – present.
- Guest Editor, Special Issue on “Digital Transformation for Societal Sustainability and Human Betterment in Asian Countries”, Journal of Asia Business Studies, 2025.
- Guest Editor and Organizer, Meet the Editors Workshop, Journal of Innovation & Knowledge (Q1), 2025.
- Guest Editor and Organizer, Paper Development Workshop for the Journal of Asia Business Studies (Q1), Leonardo Da Vinci Research Center, Paris, France, June 2024.
- Contributed to international paper development workshops, editorial mentoring activities, and interdisciplinary research initiatives related to artificial intelligence, digital transformation, innovation, and sustainability.
- Member of the International Program Committee and Editorial Board of the International Conference on Electronic Business (ICEB).

Conference Leadership, Scientific Committees & International Academic Engagement

- Organizing Co-Chair, Pacific Asia Conference on Information Systems (PACIS 2020), Dubai, UAE.
- Program Chair, Lebanese Conference on Information Systems (LCIS 2017), Beirut, Lebanon.
- Steering Committee Member and Track Chair, Artificial Intelligence in Security and Defence Conference (AISD 2019), Research and Strategic Studies Centre (RSSC), Lebanese Armed Forces, Beirut, Lebanon.
- Steering Committee Member, Cognitive Analytics Management Conference (CAM 2018), Beirut, Lebanon.
- Steering Committee Member, ACIEK Academy, 2017 – present.
- Representative for ACIEK Academy Legates in Arab Countries, 2018 – present.

Review Activities

Reviewer for leading international journals and conferences including:

- Journal of Business Research
- Technological Forecasting and Social Change
- Journal of Innovation & Knowledge
- Journal of Enterprise Information Management
- Information Technology & People
- Communications of the Association for Information Systems
- IEEE Access
- IEEE Transactions on Intelligent Transportation Systems
- International Journal of Educational Management
- International Journal of Hospitality Management
- Annals of Data Science
- IEEE Transactions on Services Computing
- International Conference on Electronic Business (ICEB)
- Innovation, Entrepreneurship and Knowledge Academy (INEKA).

Session Chairing & Track Leadership Activities

- Session Chair, Information and Communication Technologies in Organizations and Society (ICTO 2019/2020/2022/2023/2024/2025).
- Session Chair, MENA Conference on Information Systems (MENACIS 2021/2022/2024).
- Session Chair, Pacific Asia Conference on Information Systems (PACIS 2020).
- Session Chair, Artificial Intelligence in Security and Defence (AISD 2019).
- Session Chair, Innovation, Entrepreneurship and Knowledge Academy (INEKA 2019).
- Session Chair, International Conference on Organization and Management (ICOM 2018).
- Session Chair, Lebanese Conference on Information Systems (LCIS 2017).
- Track Chair, “Digital Transformation and Social Impact in the MENA Region”, Pacific Asia Conference on Information Systems (PACIS 2020), Dubai, UAE.
- Track Chair, “Technology, Organizations and Society”, Artificial Intelligence in Security and Defence Conference (AISD 2019), Beirut, Lebanon.

Invited Talks, Keynotes & Panels

- Keynote Speaker, Swansea University Research Seminar Series, Swansea University, Wales, United Kingdom, November 2023.
Topic: “Paving the Pathways Towards Sustainable Competitiveness”.
- Keynote Speaker, MENA Conference on Information Systems (MENACIS 2020), Morocco, December 2020.
- Keynote Speaker, Association of Academic Health Centers International (AAHCI), American University of Beirut (AUB), Beirut, Lebanon, September 2018.
Topic: “The Role of Artificial Intelligence in Personalized Medicine”.
- Invited Speaker, United Nations ESCWA Technovation Seminar Series, Beirut, Lebanon, March 2019.
Topic: “Internet of Things and Cloud Computing: A Practical Introduction”.
- Panellist, “Data to Decisions” Brainstorming Session, Mindsets Conference, Beirut, Lebanon, June 2019.

Graduate Supervision, Doctoral Mentorship & Research Advising

PhD Dissertation Co-Advisor / First Reader

- Co-advisor, Kassem Danach, PhD candidate, École Centrale de Lille, Lille, France, 2016.
- First Reader, Yara Attallah, PhD Dissertation titled: “Redefining Adaptability and Social Exchange Dynamics in the Technological Workplace: A Comprehensive Study”, Rennes School of Business, France, 2024.

MBA Thesis Supervision & Applied Projects

- Primary advisor for MBA thesis students in information systems, analytics, artificial intelligence, and digital transformation-related topics.
- Served on several MBA thesis committees and applied graduate project committees.
- Advised MBA applied projects involving business analytics, operations management, digital transformation, and technology-enabled organizational initiatives.

Student Mentorship & Experiential Learning

- Mentor on the Vertically Integrated Projects (VIP) initiative under the MEPI-TLP program.
- Mentored multidisciplinary student innovation and applied industry projects integrating artificial intelligence, analytics, entrepreneurship, and operational optimization.
- Supported experiential learning initiatives linking academia, industry collaboration, applied research, and innovation-oriented student activities.
- Advisor, Beta Gamma Sigma (BGS) Honor Society – AKSOB, Lebanese American University (LAU), 2017 – present.
- Mentored students participating in innovation, entrepreneurship, analytics, and technology-related activities and competitions.

Grants, Sponsored Projects & Research Collaborations

Externally Funded Research

- META-Funded Research Project, 2024–2025 — Co-Investigator. *International research project examining the role of artificial intelligence and digital technologies in SME transformation and sustainable development in the MENA region. Contributed to research design, data collection and analysis, project reporting, dissemination, international conference presentations, and the development of journal publications arising from the project.*

EBRD-Supported Innovation & Industry Projects

- EBRD Innovation Programme – Sham Development (Levantine), 2025–2026 — Project Lead / Consultant, LAU Industrial Hub. *Led the LAU Industrial Hub engagement supporting Sham Development under Component 1 of the EBRD Innovation Programme, focusing on research and innovation activities related to technology-enabled learning and business development. Subsequently contributed to the development of the Component 2 proposal for an AI-enabled self-paced learning platform.*
- EBRD Innovation Programme – WiFast — Consultant / Research Contributor, LAU Industrial Hub. *Contributed to the development of an IoT-based intelligent asset-tracking and operational*

monitoring solution through the LAU Industrial Hub, building on work undertaken under the EBRD Innovation Programme.

- EBRD-Supported LAU Industrial Hub – VBOUT Project — Consultant / Research Contributor. *Contributed to the development of AI-enabled multichannel customer engagement and intelligent chatbot solutions integrating artificial intelligence, applied analytics, and digital transformation.*
- Consultant and Research Contributor, LAU Industrial Hub – Wakilni Project (supported through European Bank for Reconstruction and Development initiatives). *AI-driven customer support optimization and operational enhancement initiatives.*
- Consultant and Research Contributor, LAU Industrial Hub – Elephants Ride Project (supported through European Bank for Reconstruction and Development initiatives). *AI-enabled operational efficiency and sustainability enhancement initiatives.*

Research & Innovation Collaboration Initiatives

- Co-Lead, Fifth Industrial Revolution (5IR) Research Collaboration with Saint Joseph University (USJ), Lebanon. *Co-leading interdisciplinary research examining emerging dimensions of the Fifth Industrial Revolution and their implications for organizations, technology, and society.*
- Research Collaboration with the Lebanese Red Cross. *Initiated and contributed to research on capacity building, emergency response systems, emergency medical services, and healthcare operations optimization.*
- Security and Defense Research Collaboration with the Lebanese Armed Forces. *Led and contributed to research on blockchain applications and trustworthy supply-chain systems in security and defense contexts.*
- Intelligent Emergency Response and Healthcare Optimization Research. *Led and contributed to research involving intelligent routing, mobile clinics, emergency medical systems, healthcare logistics, and optimization-based decision support.*

Industry Experience & Consulting Services

AI, Digital Transformation & Innovation Projects

- Faculty Fellow, LAU Artificial Intelligence and Cyber Systems (AICS) Research Center.
- Consultant, LAU Industrial Hub – VBOUT Project: Development of AI-enabled multichannel customer engagement and intelligent chatbot solutions.
- Consultant, LAU Industrial Hub – WiFast Project: Internet of Things (IoT)-based intelligent asset tracking and monitoring solutions.
- Consultant, LAU Industrial Hub – Wakilni Project: AI-driven customer support optimization and operational enhancement solutions.
- Consultant, LAU Industrial Hub – Elephants Ride Project: AI-enabled operational efficiency and sustainability enhancement initiatives.
- Consultant, LAU Industrial Hub – Sham Development Project (Levantine): Designing an AI-Enabled Self-Paced Learning Platform - Levantine.
- Contributed to interdisciplinary AI and digital transformation initiatives integrating academia, industry collaboration, applied research, and innovation-oriented solutions.
- Participated in applied projects and consulting initiatives related to intelligent systems, analytics, optimization, automation, and operational transformation.

Entrepreneurship, Innovation & Industry Initiatives

- Contributed to entrepreneurship and innovation ecosystem initiatives linking academic programs, industry engagement, applied projects, and experiential learning activities.
- Participated in mentoring and innovation-focused activities involving startups, applied business challenges, and interdisciplinary collaboration.
- Mentor and Judge, Hackathon on Open Banking at the Financial Academy sponsored by the Saudi Central Bank (SAMA), Kingdom of Saudi Arabia, 2024.
- Designed and delivered mentoring activities related to Open Banking, financial innovation, and digital transformation at the Financial Academy (SAMA KSA), 2024.
- Participated in industry-oriented initiatives related to digital transformation, AI adoption, operational analytics, innovation management, and technology-enabled organizational transformation.

Industry Consulting & Operations Management

- Consultant, LC Waikiki Congo: Information Technology and Operations Management, 2018.
- Consultant, Adnan Al-Zurufi, Governor of Najaf Governorate, Iraq: Strategic roadmap and planning activities related to establishing the American University in Al Najaf, 2015.
- Consultant, Rafic Hariri University Project, Lebanon: Business process reengineering and institutional operational planning, 2012.
- Consultant, Management & Engineering Co., Kinshasa, Congo: Operations management and coordination with labor service provider companies, 2011 – 2015.
- Consultant, AfriPile, Kinshasa, Congo: Operations management and coordination with labor service provider companies, 2013 – 2015.
- Operations Manager, Matrix Design Co., Lebanon, 2012 – 2014.

Earlier Industry Experience

- Founder and Manager, Future Media Center, Lebanon – Information Technology Solutions, 1999 – 2002.
- Military Service, Lebanese Armed Forces – Center of Automation and Military School, 1998.
- Graduate Assistant, Lebanese American University – Registrar Office, 1996 – 1997.
- Programmer, Automation Company, Lebanon, 1995.
- Programmer, Bank Beirut Al-Riyadh, Lebanon, 1994.

Professional Development

- Participated in the AI & Machine Learning Workshop, Lebanese American University (LAU) School of Engineering, August 2025.
- Participated in professional development activities related to artificial intelligence, machine learning, digital transformation, analytics, innovation, and emerging technologies.
- Participated in the Data Science and Machine Learning Boot Camp, Beirut AI, December 2020.
- Participated in workshops and training activities related to online learning, digital pedagogy, active learning methodologies, and technology-enhanced education.
- Participated in the “Blackboard – Fundamentals of Digital Teaching and Learning” Workshop, Lebanese American University (LAU), July 2019.
- Participated in the Professional Paper Development Workshop, Lebanese American University (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, Lebanese American University (LAU), 2017.
- Participated in the “Big Data and Social Intelligence” workshop, Saint Joseph University (USJ), Lebanon, June 2017.
- Participated in the AACSB Assurance of Learning Seminar, Lebanese American University (LAU), November 2017.
- Participated in the AACSB Best Practices Series, American University in Dubai (AUD), 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 SAP ERP Train-the-Trainer Workshop, SAP University Alliance, Lebanese American University (LAU), April 2016.
- Participated in SAP ERP Training Workshop, SAP University Alliance, American University of Beirut (AUB), May 2015.
- Participated in the Information Security Workshop: “A Deep Walk on the Dark Side of Information Security”, LAU Software Institute, January 2015.

Honors & Awards

- Recipient of the Association for Information Systems (AIS) MENA Chapter Distinguished Career Achievement Award, 2022.
The Distinguished Career Achievement Award is the highest and most prestigious recognition granted by the AIS MENA Chapter for outstanding and sustained contributions to the field of Information Systems, academic leadership, and professional service.
- Recipient of the Association for Information Systems (AIS) Outstanding Chapter Award for two consecutive years, 2018/2019 and 2019/2020.
- Recipient of the Beta Gamma Sigma (BGS) Honors Award for two consecutive academic years, 2018/2019 and 2019/2020.
- Recipient of the Lebanese Armed Forces Commander-in-Chief National Merit Award for contributions and initiatives developed in collaboration with 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 the Information and Communication Technologies in Organizations and Society (ICTO), Paris, France, 2018.
- Recipient of the Best Paper Award, International Conference on Organization and Management (ICOM), Abu Dhabi, United Arab Emirates, November 2017.

Research Interests

- Artificial Intelligence and Applied Data Analytics
- Digital Transformation and Intelligent Organizational Systems
- Entrepreneurship, Innovation Ecosystems, and Technology-Enabled Innovation
- ICT Adoption, Implementation, and Organizational Transformation
- Business Analytics and Decision Support Systems
- Intelligent Operations Systems and Optimization

- Stochastic Search Algorithms, Metaheuristics, and Heuristic Optimization
- Emergency Response Systems and Healthcare Operations Optimization
- AI-Driven Solutions for Sustainability and Societal Impact
- Blockchain Applications, Security, and Trustworthy Digital Systems
- Web Technologies, Software Engineering, and Information Security
- Distributed Systems Synchronization and Real-Time Systems

Publications

Selected High-Impact Publications

- Tarhini, A., Yunis, M., & Chamseddine, M. (2016). Natural optimization algorithms for the cross-dock door assignment problem. *IEEE Transactions on Intelligent Transportation Systems*, 17(8), 2324–2333.
- Yunis, M., Tarhini, A., & 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, 344–356.
- Dabbous, A., & Tarhini, A. (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.
- Tarhini, A., Danach, K., & Harfouche, A. (2022). Swarm intelligence-based hyper-heuristic for the vehicle routing problem with prioritized customers. *Annals of Operations Research*.
- Chedrawi, C., Haddad, G., Tarhini, A., Osta, S., & Kazoun, N. (2025). Exploring the impact of responsible AI usage on users' behavioral intentions. *Journal of Innovation & Knowledge*, 10(6).
- Dabbous, A., Barakat, K. A., Tarhini, A., & Aoun, G. (2026). Advancing Sustainable Development: The Interplay between Artificial Intelligence, Digitalization, Green Finance and Regulatory Quality. *Communications of the Association for Information Systems*, 58(1).

Refereed Journal Articles

A) Artificial Intelligence, Digital Transformation & Sustainability

- 1) Dabbous, A., Barakat, K. A., Tarhini, A., & Aoun, G. (2026). Advancing Sustainable Development: The Interplay between Artificial Intelligence, Digitalization, Green Finance and Regulatory Quality. *Communications of the Association for Information Systems*, 58(1), 48.
- 2) Danach, K., Tarhini, A., Aly, W. H. F., & Hejase, H. J. (2025). A Multi-Level Optimization Framework for Blockchain Security: Integrating Metaheuristics, Reinforcement Learning, and Game Theory. *European Journal of Pure and Applied Mathematics*, 18(4), 6555–6555.
- 3) Danach, K., Aly, W. H. F., Tarhini, A., & Laouadi, S. (2025). Toward Transparent Optimization: A Systematic Review of Explainable AI in Decision-Making Systems. *European Journal of Pure and Applied Mathematics*, 18(4), 6707–6707.
- 4) Chedrawi, C., Haddad, G., Tarhini, A., Osta, S., & Kazoun, N. (2025). Exploring the impact of responsible AI usage on users' behavioral intentions. *Journal of Innovation & Knowledge*, 10(6), 100813.
- 5) 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.

- 6) 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.
- 7) Aoun Barakat, K., Dabbous, A., & Tarhini, A. (2021). An empirical approach to understanding users' fake news identification on social media. *Online Information Review*, 45(6), 1080–1096.
- 8) Dabbous, A., & Tarhini, A. (2021). Does sharing economy promote sustainable economic development and energy efficiency? Evidence from OECD countries. *Journal of Innovation & Knowledge*, 6(1), 58–58.

B) Organizational Transformation, ICT & Innovation

- 9) 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.
- 10) Tarhini, A., Balozain, P., & Srour, F. J. (2021). Emergency management system design for accurate data: A cognitive analytics management approach. *Journal of Enterprise Information Management*, 34(2), 697–717.
- 11) 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), 218–236.
- 12) Dabbous, A., & Tarhini, A. (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).
- 13) Chedrawi, C., Howayeck, P., & Tarhini, A. (2019). CSR and legitimacy in higher education accreditation programs: An isomorphic approach of Lebanese business schools. *Quality Assurance in Education*, 27(1), 70–81.
- 14) Tarhini, A., Tarhini, J., & 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), 1466–1482.
- 15) Tarhini, A., Yunis, M., & El-Kassar, A. (2018). Innovative sustainable methodology for managing in-house software development in SMEs. *Benchmarking: An International Journal*, 25(3), 1085–1103.
- 16) Yunis, M., Tarhini, A., & 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, 344–356.
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- 1) Tarhini, A., Rahme, P., Elkhoury, M., Nasr, G. E., & Jamali, D. (2026). Entrepreneurship as a Core Competency: Building Institutional Culture and Capacity in Higher Education. 2026 ASEE Annual Conference & Exposition, Charlotte, North Carolina.
- 2) Elkhoury, M., Tarhini, A., Nasr, G. E., & Rahme, P. (2026). From Classroom to Startup: Integrating Entrepreneurial Projects, Labs, and SDG Challenges into Engineering Curricula. 2026 ASEE Annual Conference & Exposition, Charlotte, North Carolina.
- 3) Rahme, P., Elkhoury, M., Tarhini, A., & Nasr, G. E. (2026). Integrating Innovation and Entrepreneurship Development through the Vertically Integrated Projects Plus Program. 2026 ASEE Annual Conference & Exposition, Charlotte, North Carolina.
- 4) 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

- 5) 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.
- 6) **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.
- 7) **Tarhini, A.** (2025). Insights and Impact: Evaluating VIP Programs Across Contexts, VIP Consortium, Georgia Institute of Technology (GT), 2025, Atlanta, USA.
- 8) **Tarhini, A.**, ElKhoury, M., Rahme, P., Nasr, G. (2025). Bridging the Gap: Integrating Vertically Integrated Projects (VIP) Courses into University Curricula, June 2025, Paper presented at 2025 American Society for Engineers and Education - ASEE Annual Conference & Exposition , Montreal, Quebec, Canada . 10.18260/1-2--56021
- 9) 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 Annual Conference & Exposition , Montreal, Quebec, Canada . 10.18260/1-2--56340
- 10) 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 Annual Conference & Exposition , Montreal, Quebec, Canada . 10.18260/1-2—56835
- 11) 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.
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- 14) **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.
- 15) 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.
- 16) **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
- 17) 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
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- 19) **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.
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Research Projects & Work in Progress

- Hamzeh, S., Tarhini, A., & Chedrawi, C. Can AI Save Us from Burnout? Exploring Developers and QA Engineers' Well-Being. Manuscript under revision at Business and Society Review.
- Danach, K., Tarhini, A., Hejase H. J., Rammal, A. Traumatic Brain Injury Metaheuristic Optimization: Harnessing Memory and Learning for Enhanced Problem Solving. *Annals of Operations Research*.
- Yu, J., Tarhini, A & Albashrawi, M. Cultural Influences on Mobile Banking Satisfaction and Loyalty: A Comparative Analysis of the U.S. and the Middle East
- Harb, H., Danach, K., Tarhini, A., Belhor, M., Kanj, H. From Syntax to Semantics: Logic Fermentation as a Cognitive Model for Programming Learning. *International Journal of Knowledge and Learning*.
- Tarhini, J., Tarhini, A. Managing Instructional Technology Adoption in Higher Education: The Role of Organizational Culture, Usability, Motivation and Innovation.

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 Trustees of the reservist Lieutenants, (1997-1998:
- Founder and member of the administrative board of the Academic Youth Association-Abba, (2000- present)