MOHAMAD DARWICHE

1. Name and academic rank

Mohamad Darwiche, Associate professor, full time.

2. Education – degree, discipline, institution, year

- Ph.D., Structural Mechanics and Acoustics, Maine University, France, 2013.
- M.S.2, Materials and devices for microwave communication systems EEA STIC components and systems, Occidental Bretagne University, France, 2009.
- M.S.1, EEA STIC components and systems, Blaise Pascale University, France, 2008.
- B.S., Industrial & Automation Engineering, Lebanese University, 2006.

3. Academic and Professional experience

3.1. Academic experience

- Beirut Arab University, Lebanon, Associate Professor, Fall 2024 - present, full time.
- Beirut Arab University, Lebanon, Assistant Professor, Fall 2015-2024, full time.
- Beirut Arab University, Lebanon, Lecturer, Spring 2014, part time.

3.2. Non-academic experience

- Beirut Arab University, Assistant Professor, September 2014- present, full time
- Beirut Arab University, Assistant Professor, Spring 2014, part time
- France Telecom R&D Orange Labs, Internship, April 2009 – September 2009
- ISEN Research department, Internship, April 2008 – June 2008
- Khatib & Alami (K&A), Engineering Consulting Company, 2006 –2008

4. Professional credentials, certificates, or licensing

Member of ASME since 2018 – present.
BAU-ASME Section advisor since 2016.

5. Professional development activities

Lebanese Industrial Research Achievements (LIRA) Program Second place price award for the senior project “Automatic Filling Machine”, 2016.

6. Contribution to the discipline

6.1. Service activities

- Member of the university student affairs committee (representative of the FoE).
- Member of Engineering Projects Day committee BAU.
- Member of the Faculty of Engineering Students’ Activities committee at BAU.
- Member of the Faculty of Engineering Self-study Report committee at BAU.
- Member of the Faculty of Engineering Libraries committee at BAU.

- Member of the Faculty of Engineering Laboratories committee at BAU.

6.2. Publications and presentations from the past five years

6.2.1. Journal publications

- **M. Darwiche**, O. Mokhiamar, SVR approach for predicting vehicle velocity for comfortable ride while crossing speed humps, Alexandria Engineering Journal, Volume 61, Issue 8, 2022, Pages 6119-6128, ISSN 1110-0168, https://doi.org/10.1016/j.aej.2021.11.045.
- K.A. Chebo, Y. Temsah, Z. Abou Saleh, **M. Darwiche**, Z. Hamdan, Experimental Investigation on the Structural Performance of Single Span Hollow Core Slab under Successive Impact Loading. Materials 2022, 15, 599. https://doi.org/10.3390/ma15020599.
- Y. Al Rawi, Y. Temsah, O. Baalbaki, A. Jahami, **M. Darwiche**, Experimental investigation on the effect of impact loading on behavior of post- tensioned concrete slabs, Journal of Building Engineering, Volume 31, 2020, 101207, ISSN 2352-7102, https://doi.org/10.1016/j.jobe.2020.101207.
- A. Jahami, Y. Timsah, K. Khatib, O. Baalbaki, **M. Darwiche**, S. Chaaban, Impact behavior of rehabilitated post-tensioned slabs previously damaged by impact loading, Magazine of Civil Engineering. 2020. 93(1). Pp. 134–146. DOI: 10.18720/MCE.93.11.
- A. Jahami, Y. Timsah, O. Baalbaki, **M. Darwiche**, M. Elani, Y. Al Rawi, S. Chaaban, Effect of Successive Impact Loads From a Drop Weight on a Reinforced Concrete Flat Slab, MATEC Web of Conferences 281, 02003 (2019).
- **M. Darwiche**, W. El-Hajj-Chehade, Speed Bump Detection for Autonomous Vehicles Using Signal Processing Techniques, BAU J. –Sci. Technol. 1. (1) 2019, Article 5.
- Y. Zein, **M. Darwiche**, Fuzzy Logic Velocity Optimization of Autonomous Vehicles Based On Road Bump Geometry, BAU J.– Sci. Technol. 1 (2) (2018). Article 2.
- Y. Zein, **M. Darwiche**, O. Mokhiamar, GPS Tracking Systemfor Autonomous Vehicles, Alexandria Eng. J. 57 (4) (2018)3127–3137, https://doi.org/10.1016/j.aej.2017.12.002.

6.2.2. Conference Proceedings

- Creep-rupture prediction by native bayes classifiers, **M. Darwiche**, G. Bousaleh, M. Feuilloy, D. Schang and R. El Guerjouma Acoustics 2012, 11th Congress Français d'Acoustique and 2012 IOA annual meeting, 23 – 27 April 2012, Nantes, France.

- A normalization method for life-time prediction of composite materials, **M. Darwiche**, G. Bousaleh, M. Feuilloy, D. Schang and R. El Guerjouma, Acoustics 2012, 11ème Congrès Français d'Acoustique and 2012 IOA Annual meeting.
- Creep-rupture prediction by support vector machines, **M. Darwiche**, R. Berbaoui, M. Feuilloy, D. Schang, G. Bousaleh, R. El Guerjouma, 18th international congress on sound and vibration July 10-14, 2011. Rio de Janeiro – Brazil.
- Prédiction de la durée de vie de matériaux soumis à des essais de fluage par des classifieurs bayésiens, **M. Darwiche**, R. Berbaoui, M. Feuilloy, D. Schang., G. Bousaleh, R. El Guerjouma, Journées scientifiques et techniques – Association pour les matériaux composites, IST AMAC, Octobre 2011. Lyon – France
- Prediction of blood transfusion donation, **M. Darwiche**, G. Bousaleh, M. Feuilloy, D. Schang, IEEE Conference on Research Changelings in Information Science (RCIS 2010), May 19-21, 2010 Nice - France