

# MOHAMAD DARWICHE



## 1. Name and academic rank

Mohamad Darwiche, Assistant professor, full time.

Faculty of Engineering, Beirut Arab University-Debbieh Campus

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## 2. Education – degree, discipline, institution, year

- Ph.D., Acoustics, Life-Time Prediction on Composite Materials, Mans University, France, 2013. Supervisor: Prof. Rachid El Guerjouma Co-Supervisors: Dr. Daniel Schang, and Dr. Ghazi Bousaleh.
- M.S.2, Materials and devices high-frequencies, Occidental Bretagne University, France, 2009.
- M.S.1, Electronic Electrotechnics Automatic, 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, Assistant Professor, September 2014-present, 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 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

###### 6.2.1. Journal publications

- **Mohamad Darwiche**, Ali Rabih, Jalal Faraj, Mahdi Keniar, Ibrahim Akl, Samer Ali, Rabib Murr, Mahmoud Khaled, Geothermal energy concept applied to All-Air HVAC system”. J. Phys.: Conf. Ser. 2754 012002
- **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. Timsah, 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.jobee.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).
- Zein, Yassine and **Darwiche, Mohamad** (2020) "FUZZY LOGIC VELOCITY OPTIMIZATION OF AUTONOMOUS VEHICLES BASED ON ROAD BUMP GEOMETRY," *BAU Journal - Science and Technology*: Vol. 1: Iss. 2, Article 2. Available at: <https://digitalcommons.bau.edu.lb/stjournal/vol1/iss2/2>.
- **Darwiche, Mohamad** and El-Hajj-Chehade, Wassim (2019) "SPEED BUMP DETECTION FOR AUTONOMOUS VEHICLES USING SIGNAL-PROCESSING TECHNIQUES," *BAU Journal - Science and Technology*: Vol. 1: Iss. 1, Article 5. Available at: <https://digitalcommons.bau.edu.lb/stjournal/vol1/iss1/5>.
- Y. Zein, **M. Darwiche**, O. Mokhiamar, GPS Tracking System for 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. Feuilloley, 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.