



1. Name and academic rank

Mohamad Ali, Associate Professor, full time. (Coordinator of the Mechanical Eng. Department (Tripoli Campus)).

2. Education – degree, discipline, institution, year

- Ph.D., National Polytechnic Institute of Toulouse (INPT), France (2009).
- M.Sc., Mechanical Engineering, National Higher School of aeronautical constructions (ENSICA), Toulouse, France (2005).
- B.S. and Master Degree, Mechanical Engineering and Manufacturing, University of Paul Sabatier, Toulouse III, France (2004).

3. Academic experience

- Beirut Arab University, Lebanon, Assistant Professor, Spring 2011 - present, full time.
- Université de Technologie de Compiègne, France, Post-Doc, 2010-2011, full time.
- National School of Engineers of Tarbes (ENIT), France, Teacher and researcher, 2009-2010, full time.

4. Non-academic experience

- Member in the scientific and GIS committees, Order of Engineers & Architects of Tripoli (2021 - 2024)
- Member in Municipality council of Fnaydik, Lebanon.
- President of the Lebanese Development Association – Tripoli, Lebanon.

5. Certifications or professional registrations

None

6. Current membership in professional organizations

- Mechanical Engineer - Member of the Order of Engineers & Architects of Tripoli.
- Member in the Union of Engineers of the National Conservatory of Arts and Crafts, France



7. Honors and awards

Research fund (2020 – 2021) from the Association of Francophone Universities (AUF)

8. Service activities

- Coordinator of the ABET Committee, Tripoli Campus.
- Member of the Faculty of Engineering Quality Unit at BAU for the academic years 2016-2017 and 2017-2018.
- Training short course, “Catia V5 and SolidWorks for beginner intermediate and advanced levels”, Beirut Arab University, Tripoli, Lebanon.

9. Publications and presentations

9.1 Journal publications

- M. Ali, A. Sakout, M. Al Kheir, H. Assoum, Waste heat recovery in injection molding machines. International Journal on “Technical and Physical Problems of Engineering”. Issue 60, Volume 16, Number 3, pages: 27- 35, September 2024.
- Mohammad F. Yakhni, Sebastien Cauet, Anas Sakout, Hassan Assoum, Erik Etien, Laurent Rambault , Mohamad Ali, Mohamed El-Gohary, Induction motor tachless fault detection in transient speeds using adaptive generalized Vold Kalman filter. Results in Engineering, Volume 24, December 2024, 102961, Elsevier. <https://doi.org/10.1016/j.rineng.2024.102961>.
- Mohamad Ali, Mohamad El Dandachy, Ahmed M. Ellakany. Dynamic Response of Steel-Concrete Beams with Partial Interaction Due To Moving Loads. Journal of science and construction ISSN: 2789-7605 (2023). Volume 4 Number 4, pages: 6-22.
- Ali, M., Hussein, M. Characterization and optimization of mechanical properties in design materials using convolutional neural networks and particle swarm optimization. *Asian J Civ Eng* (2023). <https://doi.org/10.1007/s42107-023-00918-5>.
- Ali, M., Hussein, M. Evaluation and prediction of design-time product structural analysis assistance using XGBoost and Grey Wolf Optimizer. *Asian J Civ Eng* (2023). <https://doi.org/10.1007/s42107-023-00916-7>.
- Mohammad Yakhni, M. A. El-Gohary, Mohamad Ali. Magnetorheological damper voltage control using artificial neural network for optimum vehicle ride comfort. *Journal of mechanical engineering and sciences* (2021) 15(1):7648-7661. 2.
- Mohammad Yakhni, Mohamad Ali, M. A. El-Gohary. Control of MR damper using ANFIS and PID controller for optimum vehicle ride comfort. *BAU Journal – Science and*



Technology (2020) Volume 2, Issue 1 ISSN: 2706-784X.

- A. M. Ellakany, M. Ali, M A. El-Gohary and M. Elkholy. Lumped system model for elastic steelconcrete beams with partial interaction. *Multidiscipline Modeling in Materials and Structures*. (2019) 1573-6105.
- H. Assoum, J. Hamdi, K. Abed-Meraïm, M. Ali, M. El Hassan and A. Sakout « Correlation between the acoustic field and the transverse velocity in a plane impinging jet in the presence of self-sustaining tones », *Energy Procedia*, 139, pp. 391–397, 2017
- ALI M., Lorrain B., Karama M., Puel B. «The effect of the cure temperature on the thermomechanical characteristics of an adhesive» *Key Engineering Materials Vol. 446* (2010) pp 43-49.

9.2 Conference Proceedings

- Mohamad Ali, Mohamed El-Gohary. Caractérisations mécaniques des charnières pour meuble. 5^{ème} Congrès International Francophone de Mécanique Avancée. *MATEC Web Conf. Volume 261*, 2019.
- ALI M., « The behavior of the bonded and fastened lap joint» *International Workshop on Mechanical Engineering, IWME-2014 Istanbul, KOC University TURKEY August 8-9, 2014. Scientific Cooperation Publications, ISBN: 978-605-86637-3-2.*
- ALI M., Lorrain B., Karama M., Puel B. «The Effect of the polymerization temperature on ageing bonded joints» *3th International Conference on Structural Analysis of Advanced Materials (ICSAAM – 2009) 7-10 September 2009, Tarbes, France. ISBN : 978-2-9534804-0-5.*
- ALI M., Lorrain B., Karama M., Puel B., «Fatigue behavior of the screwed/riveted joints and the bonded joints» *International conference on the respective input of the numerical simulation and the experimental approach in fatigue design, 21-22 November 2007 - Senlis, France. N° ISBN : 2-85400-802-2*
- ALI M., Lorrain B., Karama M., Puel B., « Etude du comportement d'une liaison mécanique par éléments de fixation ». *8e Colloque National en calcul des structures. 21-25 Mai 2007, Giens, France. Vol.1 p515-521 Ed. Hermes, N° ISBN: 978-2-7462-1822-2.*
- ALI M., Lorrain B., Karama M., Puel B., « Caractérisation des assemblages rivetés et vissés en fatigue 18ème Congrès Français de Mécanique 27-31 août 2007 Grenoble, France. N° ISBN : CFM2007-0550

10. Most recent professional development activities

- Research collaboration between Beirut Arab University and Lebanese University.
- Participation in the Gas and Oil Processing, a Lebanese European Cooperation project.