



## Aghil Shavalipour

Assistant Professor

College: Faculty of Engineering

Department: Department of Mechanical Engineering

### Education

Degree	Graduated in	Major	University
BSc	2006	Mechanical Engineering	Ilam University
MSc	2011	Mechanical Engineering	National University of Malaysia (UKM)
Ph.D	2015	Mechanical Engineering - Dynamic Systems Control	National University of Malaysia(UKM)

### Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
Velayst University	Assistant Professor	Tenure Track	Full Time	4

### Work Experience

MAY,2019-DEC,2019

Velayat University

Iranshahr, Iran      Administrative and Human Resources Manager (9 months)

Responsible for employment policies and procedures, managing workplace safety, overseeing payroll, and rewards and recognition programs.

### Papers in Conferences

1. Aghil Shavalipour ,Design and Development of an Analytical Solution for Control Vehicle Suspension System ,9th International Conference on Acoustic and Vibration (ISAV) ,TEHRAN - IRAN ,2019.
2. Aghil Shavalipour ,Hydrodynamic analysis of the filling depth of a horizontal cylindrical finned tank using CFD ,5th International Conference on Applied Research in Electrical, Mechanical and Mechatronic

Engineering ,TEHRAN - IRAN ,2019.

3. Aghil Shavalipour ,Numerical study of Sloshing fluid flow in vane fuel tankers based on fuel type ,5th International Conference on Applied Research in Electrical, Mechanical and Mechatronic Engineering ,TEHRAN - IRAN ,2019.
4. Aghil Shavalipour ,Finite Element Analysis of Composite Repaired Pressure vessel with different thickness of wall and composite materials ,3rd International Conference on Mechanical and Aerospace Engineering ,TEHRAN - IRAN ,2018.
5. Aghil Shavalipour , S M Haris , Y Yaacob ,Multiple Model Adaptive Control Design A Computer Algebra Approach ,Third International Conference on Advances in Mechanical and Automation Engineering - MAE ,Rome-Italy ,2015.
6. Aghil Shavalipour, S. M. Haris ,Mixed H<sub>2</sub>/H<sub>∞</sub> with Pole-Placement Control Design Outline for Active Suspension Systems ,RECAR International Conference UKM ,KUALA LUMPUR -MALAYSIA ,2014.
7. Aghil Shavalipour, S. M. Haris ,Algebraic approach to control car suspension system by using spectral factorization and sum of roots ,IEEE International Conference on Industrial Technology (ICIT) ,BUSAN - KOREA ,2014.

### Papers in Journals

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1. Aghil Shavalipour, S Rizeh Bandi,Numerical Investigation of Parameters Affecting Sloshing Fluid in Fuel Tankers,Journal of Mechanical Engineering-Tabriz University,2021.
2. Aghil Shavalipour, Ramin Karimi,Analysis of Fiber-Reinforced Polymer (FRP) Rehabilitation of Cracked Pressure Vessel Using Finite-element Method (FEM),Journal of Stress Analysis,2020.
3. M H Hakemzadeh, Aghil Shavalipour, K Sopian, S H Zaidi,An Investigation of Modelling Diffuse Solar Radiation Under Tropical Climatic Conditions,International Journal of Renewable Energy Research (IJRER),2020.
4. Hu Jun, Liu Jian, Xu Junxin, Yi Hong, Aghil Shavalipour,Pre-thermal buckling and frequency characteristics of imperfect graphene nanoplatelets reinforced composite curved open cylindrical micropanel under nonlinear thermal loading,Mechanics Based Design of Structures and Machines,2020.
5. M Jalali, Aghil Shavalipour, M Safarpour, H Moayedi,,Frequency analysis of a graphene platelet–reinforced imperfect cylindrical panel covered with piezoelectric sensor and actuator,The Journal of Strain Analysis for Engineering Design,2020.
6. A Ghabussi, M Habibi, O N Arani, Aghil Shavalipour,,Frequency characteristics of a viscoelastic graphene nanoplatelet–reinforced composite circular microplate,JVC/Journal of Vibration and Control,2020.
7. K Jermittiparsert, A Ghabussi, A Forooghi, Aghil Shavalipour, M Habibi,Critical voltage, thermal buckling and frequency characteristics of a thermally affected GPL reinforced composite microdisk covered with piezoelectric actuator,Mechanics Based Design of Structures and Machines,2020.
8. Lianghua Ma, Xiaoliang Liu, Aghil Shavalipour,Active vibration control responses of a smart microshell reinforced with graphene nanoplatelets and subjected to external force,Mechanics Based Design of Structures and Machines,2020.
9. H R Hashemi, A Alizadeh, M A Oyarhossein, Aghil Shavalipour,Influence of imperfection on amplitude and resonance frequency of a reinforcement compositionally graded nanostructure,Waves in Random and Complex Media,2020.
10. M Habibi, A Mohammadi, H Safarpour, Aghil Shavalipour, M Ghadiri,Wave propagation analysis of the laminated cylindrical nanoshell coupled with a piezoelectric actuator,Mechanics Based Design of Structures and Machines,2019.
11. Aghil Shavalipour, Ramin Karimi,Parametric Investigation of Repairing Cracked Pressure Vessel Using Composite Patch.,Journal of Engineering Science & Technology Review,2019.
12. A Ghabussi, N Ashrafi, Aghil Shavalipour, A Hosseinpour, M Habibi, H Moayedi,,Free vibration

- analysis of an electro-elastic GPLRC cylindrical shell surrounded by viscoelastic foundation using modified length-couple stress parameter, *Mechanics Based Design of Structures and Machines*, 2019.
13. Aghil Shavalipour, S Mohamed, Y Yaacob, Z Mohd, Multiple Model Adaptive Control Design A Computer Algebra Approach, *International Journal of Advancements in Mechanical and Aeronautical Engineering*, 2016.
  14. Aghil Shavalipour, Sallehuddin Mohamed Ha, Zulkifli Mohd Nopia, Symbolic Parametric LQR Controller Design for an Active Vehicle Suspension System, *Journal of Applied Sciences*, 2015.
  15. Aghil Shavalipour, S M HaRIS, Z M Nopiah, Algebraic H<sub>2</sub> Optimal Control Design in an Active Vehicle Suspension Application, *International Review on Modelling and Simulations (IREMOS)*, 2015.
  16. Aghil Shavalipour, S M Haris, Mixed H<sub>2</sub>/H<sub>∞</sub> with Pole-Placement Control Design Outline for Active Suspension Systems, *Applied Mechanics and Materials*, 2014.
  17. Aghil Shavalipour, S M Haris, An algorithm to estimate speed by colour-based object detection, *International Journal of Signal and Imaging Systems Engineering*, 2014.
  18. Aghil Shavalipour, S M Haris, Algebraic approach to control car suspension system by using spectral factorization and sum of roots, *IEEE International Conference on Industrial Technology (ICIT)*, 2014.
  19. Aghil Shavalipour, M H Hakemzadeh, K Sopian, S M Haris, S H Zaidi, New formulation for the estimation of monthly average daily solar irradiation for the tropics: a case study of Peninsular Malaysia, *International Journal of Photoenergy*, 2013.