



Mrs. Nurazima Ismail
Lecturer
Faculty of Mechanical Engineering,
Universiti Malaysia Pahang,
26600 Pekan, Pahang,
MALAYSIA.
Tel: 609-424 6272, Fax: 609-424 6222
Email: nurazima@ump.edu.my
Google Scholar: <https://scholar.google.com.my/citations?user=punPdfoAAAAJ&hl=en>

Academic Qualification

M.Eng. (Hons)(Mechanical Engineering), Universiti Kebangsaan Malaysia, 2008.
B.Eng. (Mechanical and Materials), Universiti Kebangsaan Malaysia, 2010.

Working Experiences

- | | |
|-------------------------------|--|
| 1. April 2011 ~ to date | Lecturer, Faculty of Mechanical Engineering, Universiti Malaysia Pahang. |
| 2. July 2010 ~ October 2010 | Part time tutor, Universiti Tenaga Nasional (UNITEN) |
| 3. July 2008 ~ September 2008 | Research Assistant, Faculty of Engineering & Built Environment, Universiti Kebangsaan Malaysia |

Expert Area

Fracture Mechanics

Research Interest

Metal Fatigue, Finite Element Analysis (Stress analysis), Signal Processing

Research Project/ Grant

1. A Frequency Domain Approach for Fatigue Life Estimation of an Automotive Suspension System
2. Development of a New Technique to Increase the Sensitivity in Crack Identification For Automotive Component: Vibrations Based Analysis
3. Fatigue Life Prediction Based on Dynamic Characteristics for Metallic Component

List of Publications

A) International and National Journal

1. S. Abdullah, **N. Ismail**, M.Z. Nuawi, Z.M. Nopiah & A. Ariffin. 2010. Using the Hybrid kurtosis-based method to correlate strain and vibration signals. *Journal of WSEAS Transactions on Signal Processing* 6(3): 79-90.
2. **N. Ismail**, S. Abdullah, M.Z. Nuawi, Z.M. Nopiah & A. Lennie. 2011. Durability analysis of an automobile coil spring using hybrid I-kaz. *Key Engineering Materials (KEM)* 462-463: 472-477.
3. **N. Ismail**, S. Abdullah, M.Z. Nuawi, C.K.E. Nizwan & M.F. Abdullah. 2010. The comparative study of total fatigue damage of the original fatigue signal and edited fatigue signal. *Advanced Materials Research (AMR)*.
4. S. Abdullah, **N. Ismail**, M.Z. Nuawi, Z.M. Nopiah, M.N. Baharin. 2009. *On The Need Of Kurtosis-based Technique to Evaluate the Fatigue Life of a Coil Spring*. MASAUM Journal of Basic and Applied Sciences.

5. M.S.M. Yunoh, S. Abdullah, Z.M. Nopiah, **N. Ismail**, Fatigue Feature Classification on Automotive Component. 2012. *IOP Conf. Ser.: Mater. Sci. Eng.*
6. **Nurazima Ismail**, Mohd Fadhlán Mohd Yusof, Che Ku Eddy Nizwan Che Ku Husin, 2014. On the need of the wavelet analysis for fatigue condition monitoring, *International Journal of Fracture Fatigue and Wear*, 2 246-249: 2294-7868
7. ZULKIFLI Nawawi, **NURAZIMA Ismail** and AHMAD RAZLAN Yusoff. 2012. The effect of different damper characteristics in cornering testing for the car suspension systems. *Applied Mechanics and Materials*, 471 (14-19).

B) International and National Conference Papers

8. **Nurazima Ismail**, Shahrum Abdullah, Mohd. Zaki Nuawi dan Zulkifli Mohd Nopiah. 2009. Comparative study of the strain and vibration signal using Hybrid I-kaz method. *Proceeding of Engineering Mathematics Seminar 2009 (EMas'09)*, hlm. 109-119.
9. **N. Ismail**, S. Abdullah, M.Z. Nuawi & Z.M. Nopiah. 2009. *Correlation Study Between Total Fatigue Damage and I-kaz Coefficient of the Strain Signal*. Proceedings of the Regional Engineering Postgraduate Conference 2009 (EPC).
10. **N. Ismail**, M.Z. Nuawi, S. Abdullah & A. Arifin. 2010. Statistical analysis of vibration signal on an automotive suspension system. *The 3rd Regional Conference in Noise, Vibration and Comfort (NVC 2010)*, hlm. 464-472
11. **N. Ismail**, S. Abdullah, M.Z. Nuawi, C.K.E. Nizwan & M.F. Abdullah. 2009. *The Comparative Study of Total Fatigue Damage of the Original Fatigue Signal and Edited Fatigue Signal*. Proceedings of the International Conference on Advances in Materials and Processing Technologies (AMPT2009).
12. **N. Ismail**, S. Abdullah, M.Z. Nuawi, Z.M. Nopiah & A. Lennie. 2010. *Durability Analysis of an Automobile Coil Spring using Hybrid I-kaz*. Proceedings of the 8th International Conference on Fracture and Strength Solids (FEOFS).
13. S. Abdullah, **N. Ismail**, M.Z. Nuawi, Z.M. Nopiah & A. Ariffin. 2010. *Study on Correlation between Strain and Vibration Signal Using Hybrid I-Kaz Method*. Proc. of the 8th WSEAS International Conference on Signal Processing, Robotics, and Automation (ISPRA 2010).
14. M.Z. Nuawi, **N. Ismail**, S. Abdullah & A.R. Ismail. 2009. *Correlation Study Between Fatigue and Vibration Signal Using Newly Developed Statistical Analysis: I-KAZ*. Proceedings of The Sixteenth International Congress on Sound and Vibration (ICSV16).
15. S. Abdullah, **N. Ismail**, M.Z. Nuawi, Z.M. Nopiah, M.N. Baharin. 2009. On the need of kurtosis-based technique to evaluate the fatigue life of a coil spring. *Proceeding of 2009 International Conference on Applied Physics and Mathematics (ICAPM 2009)*, hlm. 986-993.
16. ZULKIFLI Nawawi, **NURAZIMA Ismail** and AHMAD RAZLAN Yusoff. 2012. The effect of different damper characteristics in cornering testing for the car suspension systems. 4th International Conference on Noise, Vibration and Comfort (NVC) 2012, Kuala Lumpur.
17. M.S.M. Yunoh, S. Abdullah, Z.M. Nopiah, **N. Ismail**, Fatigue Feature Classification on Automotive Component, 1st International Conference on Mechanical Engineering Research (ICMER 2011), 5-7 Dec 2011.
18. C.K.E.Nizwan, M. N. Hisyam, **N. Ismail**, 2011. A Time-Frequency Localization Analysis of Vibration Data for Bearing Fault Detection, Malaysian Technical Universities International Conference on Engineering & Technology (MUiCET 2011).

19. **Nurazima Ismail**, Shanrum Abdullah, Mohd Fadhlán Mohd Yusof, Che Ku Eddy Nizwan Che Ku Husin, 2014. On the need of the wavelet analysis for fatigue condition monitoring, 3rd International Conference on Fracture Fatigue and Wear, FFW 2014, Japan.
20. Nurazima Ismail, Muhamad Aizuddin Abdul Aziz, Abdul Ghaffar Abdul Rahman, Che Ku Eddy Nizwan Che Ku Husin, Shahrum Abdullah, 2013. Effect of Natural Frequency to the Fatigue Life of the Metallic Component. 9th International Conference on Fracture & Strength of Solids (FEOFS 2013), June 9-13, Jeju, Korea.

Awards

1. JPA Scholarship, B.Eng, Universiti Kebangsaan Malaysia (2004-2008)
2. MOSTI Scholarship, M.Eng, Universiti Kebangsaan Malaysia (2008-2010)