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POSITION: SENIOR LECTURER
DEPARTMENT/SECTION: FAME
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EDUCATION / ACADEMIC QUALIFICATION:

PhD MECHANICAL ENGINEERING, UTM
BEng. MECHANICAL ENGINEERING, UTM

EMPLOYMENT (WORKING EXPERIENCE):

MARCH 2016 – PRESENT : UniKL MITEC – LECTURER

EXPERTISE (RESEARCH AREA):

ACTIVE VIBRATION CONTROL, ARTIFICIAL INTELLIGENT TECHNIQUES,
MECHANICAL MAINTENANCE

RESEARCH PROJECTS/GRANTS: -

SUPERVISION:

4 STUDENTS FYP 2

6 STUDENTS FYP 1

LANGUAGES: ENGLISH, BAHASA MALAYSIA

TEACHING AND LEARNING:

SUBJECTS TAUGHT

1. PUMP AND COMPRESSOR SYSTEM
2. OVERHEAD MATERIAL HANDLING EQUIPMENT
3. STATIC EQUIPMENTS
4. COMPUTER AIDED DESIGN
5. COMPUTER AIDED DESIGN FOR FACILITIES

SELECTED PUBLICATIONS:

JOURNALS

1. **Hanim Mohd Yatim** and Intan Z. Mat Darus (2014), Self tuning Active Vibration Controller using Particle Swarm Optimization for Flexible Manipulator System, *WSEAS Transactions on Systems and Control*, Vol 9, pp.55-66. (Indexed in SCOPUS)
2. **Hanim Mohd Yatim** and Intan Z. Mat Darus (2013), Intelligent Parametric Identification of Flexible Manipulator System, *International Review of Mechanical Engineering*, 8(1), pp.11-21. (Indexed in SCOPUS).
3. Intan Z. Mat Darus, Ameirul A. Mustadza, **Hanim Mohd Yatim** (2013), Harnessing Energy from Mechanical Vibration Using Non-Adaptive Circuit and Smart Structure, *International Review of Mechanical Engineering*, 7(5), pp. 832-840 (Indexed in SCOPUS).

TECHNICAL PAPERS IN CONFERENCES

1. **Hanim Mohd Yatim**, Intan Z. Mat Darus, Muhamad Sukri Hadi, Modeling of Flexible Manipulator Structure using Particle Swarm Optimization with Explorer, *IEEE Symposium on Industrial Electronics and Applications (ISIEA 2014)*, Kota Kinabalu, Sabah, Malaysia, 29 September – 1 Oktober 2014.
2. M. Sukri Hadi, Intan Z. Mat Darus, Rickey Ting Pek Eek, **Hanim Mohd Yatim**, Swarm Intelligence for Modeling a Flexible Plate Structure System with Clamped-Clamped-Free-Free Boundary Condition Edges, *IEEE Symposium on Industrial Electronics and Applications (ISIEA 2014)*, Kota Kinabalu, Sabah, Malaysia, 29 September – 1 Oktober 2014.
3. Rickey Ting Pek Eek, **Hanim Mohd Yatim**, Intan Z. Mat Darus, Shafisshuhaza Sahlan, Development of Controller Graphical User Interface for

Vibration Supression of Flexible Beam, *IEEE Symposium on Industrial Electronics and Applications (ISIEA 2014)*, Kota Kinabalu, Sabah, Malaysia, 29 September – 1 Oktober 2014.

4. Muhammad Sukri Hadi, Intan Z. Mat Darus and **Hanim Mohd Yatim**, Active Vibration Control of Flexible Plate with Free-Free-Clamped-Clamped (FFCC) Edges using Genetic Algrithm, *Australian Control Conference (AUCC 2013)*, Perth, Australia, 4-5 November 2013, pp.109-114.
5. **Hanim Mohd Yatim**, Intan Z. Mat Darus and Sukri M. Hadi, Modeling of Flexible Manipulator Structure Using Genetic Algorithm with Parameter Exchanger, *The proceeding of IEEE the 5th International Conference of Computational Intelligence, Modelling and Simulation (CimSIM 2013)*, Seoul South Korea, 24-26 September 2013, pp.37-42.
6. **Hanim Mohd Yatim**, Intan Z. Mat Darus and Muhammad Sukri Hadi, Particle Swarm Optimization for Identification of a Flexible Manipulator System, *The Proceeding of the IEEE Symposium on Computers & Informatics (ISCI 2013)*, Langkawi, Malaysia, 7-9 April 2013, pp.112-117.
7. Muhammad Sukri Hadi, Intan Z. Mat Darus and **Hanim Mohd Yatim**, Modeling Flexible Plate Structure System with Free-Free-Clamped-Clamped (FFCC) Edges using Particle Swarm Optimization, *The Proceeding of the IEEE Symposium on Computers & Informatics (ISCI 2013)*, Langkawi, Malaysia, 7-9 April 2013, pp. 39-44.
8. **Hanim Mohd Yatim** and Intan Z. Mat Darus, Swarm Optimization of an Active Vibration Controller for Flexible Manipulator, *13th WSEAS International Conference on Robotics, Control and Manufacturing Technology*, Kuala Lumpur, 2–4 April 2013, pp.139-146.
9. Intan Z. Mat Darus, Ameirul A. Mustadza, **Hanim Mohd Yatim**, Comparative Analysis of Piezoelectric Energy Harnessing from Micro Vibration Using Non-Adaptive Circuit, *13th WSEAS International Conference on Robotics, Control and Manufacturing Technology*, Kuala Lumpur, 2 – 4 April 2013, pp. 165-171.
10. **Hanim M. Yatim**, I. Z. Mat Darus and Maziah Mohamad, Parametric Identification and Dynamic Characterisation of Flexible Manipulator System, *Proceedings of 2012 IEEE Conference of Control, System and Industrial Informatics (ICCSII 2012)*, Bandung Indonesia, 22 - 26 September 2012, pp. 16 – 21.

THESES AND PROJECTS

1. 'Evolutionary Algorithm for Active Vibration Control of Flexible Manipulator', PhD Thesis, May 2016.
2. 'Harnessing Energy from micro-vibration', B.Eng. Project, Mac 2011

AWARDS AND RECOGNITIONS:

- ✓ Awarded Bronze medal for 'Self Tuning PID of Active Vibration Control for Flexible Manipulator' in INATEX 2012, UTM

PROFESSIONAL SERVICES AND PROFESSIONAL MEMBERSHIP:

GRADUATE MEMBER OF BOARD OF ENGINEER MALAYSIA (BEM): GE102420A

CONSULTANCE AND COMERCIALIZATION: -

COURSES, WORKSHOPS AND TRAININGS ATTENDED:

1. AutoCAD Plant 3D Short Course Training, SSCR Kajang, 27 Feb – 1 Mac 2017
2. Workshop on '*Problem Based Learning*', UniKL MITEC, 17-18 August 2016
3. Workshop on '*Video Content Management System (VCMS) on Panopto*', UniKL MITEC, 1-2 August 2016
4. Workshop on '*Pedagogy 4*', UniKL MITEC, Johor, July 2016
5. Workshoop on '*Pedagogy 1, Pedagogy 2, and Pedagogy 3*', UniKL Chancellary, KL, 21-26 March 2016
6. Workshop on '*Graphical System Design Summit 2012*', National Instruments, Thistle Hotel, Johor, 24 Oct 2012.
7. Participated a *14th Industrial Art and Technology Exhibition (INATEX) 2012*, UTM Skudai, Johor, 3-5 October 2012.