

BRIEF CV



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Areas of interest: Non-traditional machining, finite element analysis, intelligent manufacturing.



Academic Qualification:

- D.Eng, *Okayama University*, Japan.
- M.EngSc, *Universiti Malaya*, Malaysia.
- B.Eng, *The University of Tokushima*, Japan.

Appointments:

- 2012-date: *Lecturer*, Dept. of Mechanical and Manufacturing Engineering, Faculty of Engineering, UPM
- 2003-2012: *Tutor*, Dept. of Mechanical and Manufacturing Engineering, Faculty of Engineering, UPM
- 2001-2003: *Mechanical Engineer*, Mitsubishi Electric (M) Sdn. Bhd.

Professional Membership/ Affiliation:

- Member, *Japan Laser Processing Society (JLPS)*.
- Member, *Japan Society for Precision Engineering (JSPE)*.
- Member, *International Association of Engineers (IAENG)*.
- Graduate Member, *Board of Engineers Malaysia (BEM)*.

Areas of Interest:

Non-traditional machining, finite element analysis, intelligent manufacturing.

Publications:

Journals

- M.I.S. Ismail, Y. Okamoto, A. Okada, Y. Uno, K.Ueoka: Direct Micro-Joining of Flexible Printed Circuit and Metal Electrode by Pulsed Nd:YAG Laser, *International Journal of Precision Engineering and Manufacturing*, Vol.13, No.3, (2012), pp.321-329.
- M.I.S. Ismail, Z. Taha, M. Hamdi: Experimental Design and Performance Analysis in Plasma Arc Surface Hardening, *Jurnal Teknologi*, Vol.57, (2012), pp.57-75.
- M.I.S. Ismail, Y. Okamoto, A. Okada, Y. Uno: Experimental Investigation on Micro-welding of Thin Stainless Steel Sheet by Fiber Laser, *American Journal of Engineering and Applied Sciences*, Vol.4, No.3, (2011), pp.314-320.
- M.I.S. Ismail, Y. Okamoto, Y. Uno: Numerical Simulation on Micro-welding of Thin Stainless Steel Sheet by Fiber Laser, *International Journal of Electrical Machining*, Vol.16, (2011), pp.9-14.
- M.I.S. Ismail, Z. Taha: Prediction of Hardness Distribution in Plasma Arc Surface Hardening using Neural Network, *Journal of Science and Technology*, Vol.16, No.1, (2009), pp.19-28.

Chapter in Book

- M.I.S. Ismail, Y. Okamoto, A. Okada: Micro-welding of Super Thermal Conductive Composite by Pulsed Nd:YAG Laser, *Nd:YAG Laser* (Ed: D.C. Dumitras), InTech, 2012, pp.161-182, ISBN 978-953-51-0105-5.

Conferences

- S. Matsuoka, Y. Okamoto, M.I.S. Ismail, A. Okada: Thermal Deformation in Micro-welding of Thin Stainless Steel Sheet by Single-mode Fiber Laser, *12th International Conference on Progress of Machining Technology* (ICPMT 2012), Nigata, Japan, 2012.
- M.I.S. Ismail, Y. Okamoto, A. Okada, Y. Uno, M. Mukhtar: Micro-welding of High Thermal Conductive Material Aluminum-Graphite Composite by Pulsed Nd:YAG Laser, *12th International Symposium on Laser Precision Microfabrication* (LPM 2011), Kagawa, Japan, 2011.
- M.I.S. Ismail, Y. Okamoto, Y. Uno: Direct Joining of FPC and Metal Electrode by Pulsed Nd:YAG Laser, *29th International Congress on Application of Lasers and Electro-Optics* (ICALEO 2010), California, USA, 2010.
- M.I.S. Ismail, Y. Okamoto, Y. Uno: Direct Joining of FPC and Metal Electrode by Pulsed Nd:YAG Laser (Poster Presentation), *73rd Conference of Japan Laser Processing Society*, Osaka, Japan, 2010.
- M.I.S. Ismail, Y. Okamoto, Y. Uno: Fundamental Study on Micro-welding of Thin Stainless Steel Sheet by Fiber Laser, *16th International Symposium on Electromachining* (ISEM-XVI), Shanghai, China, 2010.

Awards & Recognitions:

- 2008 – *Excellence Service Award*, Faculty of Engineering, UPM.

Professional Training Attended:

- *Laser Apparatus and Materials Processing*, Osaka, Japan (August 2009).
- *Advanced NC Programming in MasterCam X2 Mill*, UPM (June 2008).
- *Introduction to Pro/ENGINEER Training*, Singapore (July 2002).