



CURRICULUM VITAE



Dr. MOHD IDRIS SHAH ISMAIL

Department of Mechanical and Manufacturing Engineering
Faculty of Engineering
Universiti Putra Malaysia
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Education

D.Eng. Mechanical Engineering, 2012, Okayama University, Japan.
M.Eng.Sc. Mechanical Engineering, 2007, Universiti Malaya.
B.Eng. Mechanical Engineering, 2001, The University of Tokushima, Japan.

Areas of Interest

Non-traditional Machining.
Process Modeling and Simulation.
Intelligent Manufacturing.

Professional Qualification/ Membership/ Affiliation

Member, Japan Society of Mechanical Engineers (JSME).
Member, Japan Laser Processing Society (JLPS).
Member, Japan Society for Precision Engineering (JSPE).
Member, European Scientific Association for Material Forming (ESAFORM).
Member, International Association of Engineers (IAENG).
Graduate Member, Board of Engineers Malaysia (BEM).

Appointments

Position

Duration

Senior Lecturer.
Department of Mechanical and Manufacturing Engineering,
Faculty of Engineering, UPM.

April 2012 to date

Research Assistant.
Department of Materials and Manufacturing Technology,
Graduate School of Natural Science and Technology,
Okayama University, Japan.

October 2010 – March 2011
October 2011 – March 2012

Assistant Lecturer.
Department of Mechanical and Manufacturing Engineering,
Faculty of Engineering, UPM.

February 2003 – April 2012

Mechanical Engineer.
Mitsubishi Electric (M) Sdn. Bhd.

April 2001 – February 2003

Publications

Journals (30 recent journals)

1. **M.I.S. Ismail**, Z. Taha: *Surface Hardening of Tool Steel by Plasma Arc with Multiple Passes*, International Journal of Technology, Vol.5, No.1, 2014, pp.79-87. (Indexed by Scopus).
2. Z. Mohid, N.M. Warap, S. Hassan, **M.I.S. Ismail**, R. Ibrahim, E.A. Rahim: *Numerical Analysis of Laser Heating for Laser Assisted Micro Milling Application*, Applied Mechanics and Materials, Vol.465-466, 2014, pp.720-724. (Indexed by Scopus).
3. Z. Mohid, N.M. Warap, **M.I.S. Ismail**, R. Ibrahim, E.A. Rahim: *Determination of Heat Flux Intensity Distribution and Laser Absorption Rate of AISI D2 Tool Steel*, Applied Mechanics and Materials, Vol.465-466, 2014, pp.730-734. (Indexed by Scopus).
4. **M.I.S. Ismail**, Y. Okamoto, A. Okada: *Neural Network Modeling for Prediction of Weld Bead Geometry in Laser Micro-welding*, Advanced in Optical Technologies, Vol.2013, Article ID 415837, 2013, 7 Pages. (Indexed by Scopus).
5. **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*, Journal of Laser Micro/Nanoengineering, Vol.8, No.1, 2013, pp.90-96. (IF: 0.913, 2013)
6. **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. (IF: 1.585, 2012)
7. **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. (Indexed by Scopus).
8. **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.
9. **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.
10. **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.

Conference Proceedings (30 recent Conference Proceedings)

1. Z. Mohid, N.M. Warap, R. Ibrahim, **M.I.S. Ismail**, E.A. Rahim: *A Method of Tool Engagement Temperature Estimation on Laser Assisted Micro Milling*, The 7th International Conference on Leading Edge Manufacturing in 21st Century (LEM 21), No.B017 – Miyagi, Japan, 2013.
2. Y. Okamoto, S. Matsuoka, **M.I.S. Ismail**, A. Okada: *Thermal Deformation in Micro-welding of Thin Stainless Steel by Single-mode Fiber Laser*, 12th International Conference on Progress of Machining Technology (ICPMT 2012), No.1010, 2012, pp.144-147 – Nigata, Japan, 2012. (Indexed by Scopus).
3. **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), No.106 – Kagawa, Japan, 2011.
4. **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), No. M406, 2010, pp.864-870 – California, USA, 2010. (Indexed by Scopus).
5. **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, pp.206 – Osaka, Japan, 2010.
6. **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), pp.431-435 – Shanghai, China, 2010.

Chapter in Books

1. **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.

Research Grants

Project Title	Amount	Year	Source of Fund
In-Process Monitoring and Adaptive Control of Weld Joint Penetration in Fusion Welding	RM 50,000	2013-2015	Putra Grant

Professional Services/Consultation

Year	Title	Authority	Amount
2013	Modeling and Simulation of Heat Transfer Dispersion Model Using Computational Fluid Dynamics (CFD)	Biowin Sdn. Bhd.	RM 4,500