

ERRY YULIAN TRIBLAS ADESTA



- KULLIYAH OF ENGINEERING
- IIUM Gombak Campus
- Email address:
eadesta@iium.edu.my

المؤهل العلمي

- Ph.D in Manufacturing System
- Master of Science (Engineering)
- Bachelor of Engineering in Mechanical Engineering

مسؤوليات التدريس

COMPUTER AIDED DRAFTING	2007/2008 2008/2009 2009/2010 2010/2011
ERGONOMICS AND WORKSTATION DESIGN	2008/2009 2010/2011
ENGINEERING COST ANALYSIS	2015/2016
ENGINEERING DRAWING	2008/2009 2009/2010 2010/2011 2018/2019
ENGINEERING MANAGEMENT	2007/2008 2008/2009 2011/2012
ENGINEERING PROJECT MANAGEMENT	2007/2008 2008/2009 2011/2012 2012/2013
ERGONOMICS	2007/2008 2008/2009 2009/2010
FINAL YEAR PROJECT II	2019/2020
INTERGRATED DESIGN PROJECT	2019/2020
MANUFACTURING DRAWING	2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016
MANUFACTURING ENGINEERING LAB III	2012/2013
MANUFACTURING ENGINEERING LAB I	2011/2012 2012/2013 2013/2014 2014/2015 2015/2016
MANUFACTURING ENGINEERING LAB II	2007/2008 2008/2009 2009/2010 2010/2011 2011/2012
MANUFACTURING PROCESSES	2010/2011
PRODUCTION SYSTEM ANALYSIS	2016/2017
PROJECT & OPERATIONS MANAGEMENT	2018/2019 2019/2020 2020/2021
PROJECT I	2018/2019 2019/2020
QUANTITATIVE TECHNIQUES	2018/2019 2019/2020 2020/2021

RESEARCH METHODOLOGY & SEMINAR IN MAT ENG (MIXED MODE)	2020/2021
RESEARCH METHODOLOGY & SEMINAR IN MAT ENG (RESEARCH MODE)	2020/2021
RESEARCH METHODOLOGY & SEMINAR IN MFG ENG	2015/2016 2016/2017 2017/2018 2018/2019
RESEARCH METHODOLOGY & SEMINAR IN MFG ENG (MIXED MODE)	2020/2021
RESEARCH METHODOLOGY & SEMINAR IN MFG ENG(RESEARCH MODE)	2015/2016 2016/2017 2017/2018 2018/2019
RESEARCH METHODOLOGY AND SEMINAR	2017/2018 2018/2019
RESEARCH METHODOLOGY AND SEMINAR IN MFG ENG (RESEARCH MODE)	2020/2021
RESEARCH METHODOLOGY IN MAT ENG & SEMINAR	2015/2016 2016/2017 2017/2018 2018/2019
RESEARCH METHODOLOGY IN MAT ENG & SEMINAR (RESEARCH MODE)	2015/2016 2016/2017 2017/2018 2018/2019
RESEARCH METHODOLOGY IN MFG & MATERIALS ENGIN	2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017
VALUE ANALYSIS AND VALUE ENGINEERING	2013/2014 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
WORKSHOP TECHNOLOGY	2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017

المشاريع البحثية

Completed

- 2015 - 2018** Fundamental Study of Mechanical Behavior of Aluminum Foam Sandwich in Structural Parts for Automotive
- 2015 - 2019** Developing a real time localization system for autonomous robots in flexible manufacturing systems for indoor production environment
- 2015 - -1** Developing a real time localization system for autonomous robots in flexible manufacturing systems for indoor production environment
- 2014 - 2015** Multi Objective Optimization for the Cutting Process in High Speed End Milling
- 2014 - 2017** Damage Identification of Imperfect Adhesively Bonded Structural Joint using Modal Analysis

- 2014 - 2017** Effect of Tool Path Strategies on Surface Quality of AISI H13 During Pocketing in High Speed End Milling
- 2011 - 2013** High Speed Machining (KVC Project 2011)
- 2011 - 2015** RU 2011: Development of Rotary Friction Welding Model to Predict its Welding Performance
- 2010 - 2012** Development of Embedded system for remote operation of CNC milling
- 2010 - 2013** High Speed Turning of Hardened Steel using Coated Carbide Inserts
- 2010 - 2013** Prediction of Surface Roughness in High Speed End Milling Operating due to tool run out and back cutting phenomenon
- 2009 - 2011** Investigation the Effect of Utilizing Different Grade of Recycled Polyamide 12 on Part Surface in Selective Laser Sintering
- 2008 - 2010** The Influence of Toughness and Thermal Hardness to Tool Life during High Speed Turning of Mild Steel
- 2008 - 2011** Development of a Pilot-scale Web-based Inventory Management System for Lab Equipment and Consumable

In Progress

- 2015 - Present** Fundamental Study of Mechanical Behavior of Aluminum Foam Sandwich in Structural Parts for Automotive
- 2007 - Present** Agile and Sustainable Manufacturing Research Unit (ASMARU)
- Unknown - Present** Characterisation of Mechanical and Structural Properties of 3D Printed Metal Composite via Fused Deposition Modeling (FDM)
- Unknown - Present** Machinability Investigation of GO/SiO₂ Hybrid Nanoparticle ? MQL Lubrication System in End Milling of Titanium Alloy for Sustainable Machining Environment
- Unknown - Present** Elucidation of the cutting temperature induced-damaged of CFRP during edge milling in sustainable manufacturing environment.

المنشورات

Article

- 2019** [Optimization of parameters in three dimensional printing objects with fused deposition modeling technology against geometry accuracy.](#) International Journal of Recent Technology and Engineering (IJRTE) , 7 (6S) pp.175-179
- 2019** [Numerical analysis of aluminum foam sandwich subjected to compression loading.](#) International Journal of Recent Technology and Engineering (IJRTE) , 7 (6S) pp.138-142

- 2019** [Flexural behavior of open-cell aluminum foam sandwich under three-point bending.](#) International Journal of Recent Technology and Engineering (IJRTE) , 7 (6S) pp.134-137
- 2019** [A study of Total Productive Maintenance \(TPM\) and lean manufacturing tools and their impact on manufacturing performance.](#) International Journal of Recent Technology and Engineering (IJRTE) , 7 (6S) pp.39-43
- 2019** [Influence of internal fill pattern, polishing time and Z-Axis orientation on the tensile strength of the 3D printed part.](#) International Journal of Recent Technology and Engineering , 7 (6) pp.170-174
- 2019** [Hardware improvement of FDM 3D printer: issue of bed leveling failures.](#) International Journal of Innovative Technology and Exploring Engineering (IJITEE) , 8 (4) pp.603-614
- 2018** [Total productive maintenance \(TPM\) implementation based on lean manufacturing tools in Indonesian manufacturing industries.](#) International Journal of Engineering & Technology , 7 (37) pp.156-159
- 2018** [Micro electro discharge machining of nonconductive ceramic.](#) International Journal of Engineering Materials and Manufacture , 3 (1) pp.55-62
- 2018** [Dimensional accuracy in dry micro wire electrical discharge machining.](#) Journal of Mechanical Engineering and Sciences , 12 (1) pp.3321-3329
- 2018** [Indentation mechanism in rotary hammer forging process: analytical and numerical approach.](#) International Journal of Engineering Materials and Manufacture , 3 (4) pp.190-199
- 2017** [Analysis of WEDM process parameters on surface roughness and kerf using Taguchi method.](#) International Journal of Engineering Materials and Manufacture , 2 (4) pp.103-109
- 2017** [Electro-discharge machining of alumina: investigation of material removal rate and surface roughness.](#) Journal of Mechanical Engineering and Sciences (JMES) , 11 (4) pp.3015-3026
- 2017** [Integrated engineering project management Approach for typical small to medium manufacturing companies.](#) Indonesian Journal of Electrical Engineering and Computer Science , 8 (2) pp.541-545
- 2017** [Flank wear analysing of high speed end milling for hardened steel D2 using Taguchi method.](#) IOP Conference Series: Materials Science and Engineering , 184 pp.1-5
- 2017** [Content comparative investigation on tool wear during end milling of AISI H13 steel with different tool path strategies.](#) Bulletin of Electrical Engineering and Informatics , 6 (4) pp.327-333
- 2017** [Modelling and analysing deadlock in flexible manufacturing system using timed petri net.](#) International Journal of Engineering Materials and Manufacture , 2 (1) pp.11-15
- 2017** [Experimental study of stress-strain behaviour of open-cell aluminium foam sandwich panel for automotive structural part.](#) International Journal of Engineering Materials and ManufactureInternational Journal of Engineering Materials and Manufacture , 2 (2) pp.25-30

- 2017** [Internet of Things \(IoT\) in agriculture industries.](#) Indonesian Journal of Electrical Engineering and Informatics (IJEEI) , 5 (4) pp.376-382
- 2016** [The effect of tool path strategies on cutting temperature and cutting force during pocket milling of AISI H13.](#) ARPN Journal of Engineering and Applied Sciences , 11 (1) pp.337-344
- 2016** [Influence of cutting parameters on cutting force and cutting temperature during pocketing operations.](#) ARPN Journal of Engineering and Applied Sciences , 11 (1) pp.453-459
- 2015** [Surface roughness prediction in high speed end milling using adaptive neuro-fuzzy inference system .](#) Advanced Materials Research , 1115 pp.122-125
- 2015** [Organising Value Analysis Value Engineering \(VAVE\) during New Product Development \(NPD\).](#) ARPN Journal of Engineering and Applied Sciences , 10 (21) pp.10052-10057
- 2015** [Low temperature solder alloys for ultrasonic soldering of glass.](#) ARPN Journal of Engineering and Applied Sciences , 10 (21) pp.9717-9722
- 2015** [Damage detection based on the natural frequency shifting of a clamped rectangular plate model.](#) Journal of Physics: Conference Series , 628 pp.012034-1
- 2015** [Modelling and analysing the cutting forces in high speed hard end milling using neural network.](#) ARPN Journal of Engineering and Applied Sciences , 10 (22) pp.17270 -17275
- 2015** [Implementation of functional analysis using value analysis value engineering \(VAVE\).](#) ARPN Journal of Engineering and Applied Sciences , 10 (21) pp.10072-10076
- 2015** [Effect of surface roughness on adhesion strength in ultrasonic soldering of glass.](#) ARPN Journal of Engineering and Applied Sciences , 10 (21) pp.9736-9743
- 2015** [Multi objective optimisation for high speed end milling using simulated annealing algorithm .](#) Advanced Materials Research , 1115 pp.113-116
- 2015** [Energy cost optimization in high speed hard turning using simulated annealing algorithm.](#) Advanced Materials Research , 1115 pp.104-108
- 2014** [Surface roughness modeling in high speed hard turning using regression analysis.](#) International Review of Mechanical Engineering , 8 (2) pp.431-436
- 2014** [Heat generation performance of a homemade friction stir welding tool.](#) Applied Mechanics and Materials , 529 (2014) pp.200-205
- 2014** [Welding performance of a homemade friction stir welding tool.](#) Applied Mechanics and Materials , 446-47 pp.660-664
- 2013** [Tool life modeling in high speed turning of AISI 4340 hardened steel with mixed ceramic tools by using face central cubic design .](#) International Review on Modelling and Simulations , 6 (4) pp.1334-1338
- 2013** [Experimental Investigation of the Effect of Feed Rate and Negative Tool Rake Angle in High Speed Hard Turning.](#) Journal of Advanced Science and Engineering Research , 3 (1) pp.62-69

- 2013** [The economic impact of using negative rake angle in high speed hard turning .](#) Journal of Advanced Science and Engineering Research , 3 (3) pp.309-317
- 2012** [Cutting force impact to tool life of CT5015 in high speed machining by applying negative rake angles.](#) Applied Mechanics and Materials , 117-19 pp.633-638
- 2012** [An investigation on low-temperature thermochemical treatments of austenitic stainless steel in fluidized bed furnace.](#) Journal of Materials Engineering and Performance , 21 (3) pp.388-394
- 2012** [Predicting surface roughness with respect to process parameters using Regression Analysis Models in end milling.](#) Advanced Materials Research , 576 pp.99-102
- 2012** [Surface roughness optimization in end milling using the multi objective genetic algorithm approach.](#) Advanced Materials Research , 576 pp.103-106
- 2012** [Prediction of cutting temperatures by using back propagation neural network modeling when cutting hardened H-13 steel in CNC end milling.](#) Advanced Materials Research , 576 pp.91-94
- 2012** [Power Consumption Optimization in CNC Turning Process Using Multi Objective Genetic Algorithm.](#) Advanced Materials Research , 576 pp.95-98
- 2012** [Powder mixed micro electro discharge milling of titanium alloy: analysis of surface roughness.](#) Advanced Materials Research , 341/42 pp.142-146
- 2012** [Development of an economical lapping process.](#) Advanced Materials Research , 472-47 pp.2348-2353
- 2011** [Flank Wear Modeling in High Speed Hard Turning by using artificial Neural Network and Regression Analysis.](#) Advanced Materials Research , 264-5 pp.1097-1101
- 2011** [Machining Time Simulation in High Speed Hard Turning.](#) Advanced Materials Research , 264-5 pp.1102-1106
- 2011** [A feasibility study on low temperature thermochemical treatments of Austenitic Stainless Steel in Fluidized Bed Furnace.](#) High Temp. Mater. Proc , 1-2 pp.23-29
- 2011** [Energy cost modeling for high speed hard turning.](#) Journal of Applied Sciences , 11 (14) pp.2578-2584
- 2011** [Simulation of compression and spring back phenomena of sandwich structure with honeycomb core subjected to low energy and low velocity impact.](#) Key Engineering Materials , 462-63 pp.1296-1301
- 2011** [Visual inspection on premature failure of electric motor bearings.](#) Applied Mechanics and Materials , 84-85 pp.557-561
- 2011** [Optimum KOH wet etching of cantilever tip for better image captured by nanoeducator.](#) Applied Mechanics and Materials , 84-85 pp.392-395
- 2011** [Development of virtual assembly layout with modeling languages approach and simulation using Delmia™ Quest® .](#) IIUM Engineering Journal , 12 (6) pp.9-20
- 2011** [Development of surface roughness prediction model for high speed end milling of hardened tool steel.](#) Asian Journal of Scientific Research , 4 (3) pp.255-263

- 2011** [Fabrication of CuSiC composite by powder metallurgy route.](#) Advanced Materials Research , 264/65 pp.748-753
- 2011** [New approach in cost structuring of high speed hard turning.](#) Advanced Materials Research , 264-26 pp.1003-1008
- 2011** [Tool life in high speed turning with negative rake angle.](#) Advanced Materials Research , 264 pp.1009-1014
- 2010** [Comparative study of conventional and micro WEDM based on machining of meso/micro sized spur gear.](#) International Journal of Precision Engineering and Manufacturing , 11 (5) pp.779-784
- 2010** [Modeling electric field distribution on insulator under electron bombardment in vacuum.](#) International Journal of Aerospace and Mechanical Engineering , 4 (4) pp.192-195
- 2010** [Tool life estimation model based on simulated flank wear during high speed hard turning.](#) European Journal of Scientific Research , 39 (2) pp.265-278
- 2010** [A study of parameters relationship to backcutting phenomena during high speed end milling of AISI H13.](#) American Journal of Applied Sciences , 7 (10) pp.1420-1425
- 2009** [Tool wear and surface finish investigation in high speed turning using cermet insert by applying negative rake angles.](#) European Journal of Scientific Research , 38 (2) pp.180-188
- 2008** [The Development of Cost Structure for High Speed Hard Turning.](#) International Journal of Science Engineering and Technology , 1 (2) pp.47-58

Conference or Workshop Item

- 2020** [A design consideration of heated bed's rapid levelling tool based on von mises stress using FEA simulation.](#) In: **2020 Advances in Science and Engineering Technology International Conferences, ASET 2020**
- 2020** [Flank wear prediction in high-speed face milling using Monte Carlo simulation method.](#) In: **5th North American International Conference on Industrial Engineering and Operations Management**
- 2020** [Assessment of flank wear and tool life in high speed face milling under dry and near dry machining.](#) In: **5th North American International Conference on Industrial Engineering and Operations Management**
- 2020** [Total productive maintenance implementation's barriers and enablers in Indonesian manufacturing companies.](#) In: **2020 Advances in Science and Engineering Technology International Conferences, ASET 2020**
- 2019** [Toward real time IoT based paste monitoring system for small to medium enterprise \(SME\).](#) In: **2nd Forum in Research, Science, and Technology (FIRST 2018)**
- 2018** [Numerical analysis of aluminum foam sandwich subjected to compression loading.](#) In: **4th International Conference on Mechanical, Automotive, and Aerospace Engineering 2018 (ICMAAE'18)**

- 2018 [Toolpath strategy for cutter life improvement in plunge milling of AISI H13 tool steel.](#) In: **International Conference on Advances in Manufacturing and Materials Engineering 2017 (ICAMME17)**
- 2018 [Experimental investigation on frequency shifting of imperfect adhesively bonded pipe joints.](#) In: **International Conference on Advances in Manufacturing and Materials Engineering (ICAMME 2017)**
- 2018 [Evaluating 8 pillars of Total Productive Maintenance \(TPM\) implementation and their contribution to manufacturing performance.](#) In: **International Conference on Advances in Manufacturing and Materials Engineering 2017, ICAMME 2017**
- 2018 [Investigation of tool engagement and cutting performance in machining a pocket.](#) In: **International Conference on Advances in Manufacturing and Materials Engineering 2017, ICAMME 2017**
- 2018 [Productivity improvement using discrete events simulation.](#) In: **International Conference on Advances in Manufacturing and Materials Engineering (ICAMME 2017)**
- 2018 [Precision control of kerf in metal cutting using dry micro WEDM: issues and challenges.](#) In: **8th International Conference on Key Engineering Materials (ICKEM 2018)**
- 2018 [A study of tensile test on open-cell aluminum foam sandwich.](#) In: **International Conference on Advances in Manufacturing and Materials Engineering (ICAMME 2017)**
- 2018 [Compressive behaviour and energy absorption of aluminium foam sandwich.](#) In: **International Conference on Advances in Manufacturing and Materials Engineering (ICAMME 2017)**
- 2018 [The evaluation of lean manufacturing implementation and their impact to manufacturing performance.](#) In: **1st International Conference on Design, Engineering and Computer Sciences 2018, ICDECS 2018**
- 2018 [Flexural behavior of open-cell aluminum foam sandwich under three-point bending.](#) In: **4th International Conference on Mechanical, Automotive, and Aerospace Engineering 2018 (ICMAAE'18)**
- 2017 [Simulation of real time tracking system using RFID technology to enhance quality activities in flexible manufacturing system.](#) In: **5th International Symposium on Computational and Business Intelligence (ISCBI 2017)**
- 2017 [Empirical study on AGV guiding in indoor manufacturing system using color sensor.](#) In: **5th International Symposium on Computational and Business Intelligence (ISCBI 2017)**
- 2017 [Present and future research trend in electro discharge machining.](#) In: **3rd International Conference on Mechanical, Industrial and Materials Engineering 2017 (ICMIME2017)**
- 2017 [Analysis of design tool attributes with regards to sustainability benefits.](#) In: **International Conference on Advances in Manufacturing and Materials Engineering (ICAMME 2017)**

- 2017 [Surface roughness optimization using Taguchi method of high speed end milling for hardened steel D2.](#) In: **3rd International Conference on Mechanical, Automotive and Aerospace Engineering 2016 (ICMAAE'16)**
- 2017 [An integrated approach for facilities planning by ELECTRE method.](#) In: **International Conference on Advances in Manufacturing and Materials Engineering 2017 (ICAMME17)**
- 2016 [Using soft computing methods as an effective tool in predicting surface roughness.](#) In: **2015 4th International Conference on Advanced Computer Science Applications and Technologies (ACSAT 2015)**
- 2016 [Modelling and analysing deadlock in flexible manufacturing system using untimed petri net.](#) In: **2015 4th International Conference on Advanced Computer Science Applications and Technologies (ACSAT 2015)**
- 2016 [Modeling the effect of CNT concentration in dielectric fluid on EDM performance using neural network.](#) In: **2015 4th International Conference on Advanced Computer Science Applications and Technologies (ACSAT 2015)**
- 2016 [Sustainable manufacturing framework from Islamic perspective.](#) In: **3rd International Conference on Mechanical, Automotive and Aerospace Engineering 2016 (ICMAAE'16)**
- 2015 [Modeling a conceptual framework for owner- contractor relationship and time-cost trade-off using fuzzy logic technique.](#) In: **3rd International Conference on Advanced Computer Science Applications and Technologies - ACSAT2014**
- 2014 [Development of design structure matrix of product architecture case study: multi purpose CNC router .](#) In: **2nd International Conference on Advances in Manufacturing and Materials Engineering (ICAMME 2014)**
- 2014 [Development of design structure matrix of a product architecture. Case study: multi purpose CNC router .](#) In: **IIUM Engineering Congress 2014**
- 2013 [Flank wears simulation by using back propagation neural network when cutting hardened H-13 steel in CNC End Milling.](#) In: **5th International Conference on Mechatronics (ICOM'13)**
- 2013 [Surface roughness modeling for CNC end milling using artificial neural network .](#) In: **5th International Conference on Mechatronics (ICOM'13)**
- 2013 [Simulation of tool life for ceramic with negative rake angle using neural network .](#) In: **International Conference on Advanced Computer Science Applications and Technologies 2013**
- 2012 [Cutting temperature and surface roughness optimization in CNC end milling using multi objective genetic algorithm.](#) In: **2012 International Conference on Advanced Computer Science Applications and Technologies, ACSAT 2012**
- 2012 [prediction of cutting temperatures by using back propagation neural network modeling when cutting hardened h-13 steel in CNC end milling.](#) In: **International Conference on Advances in Manufacturing and Materials Engineering (ICAMME 2012)**
- 2011 [Development of zinc based alloy for solderability.](#) In: **International Conference in Mechanical & Manufacturing Engineering (ICME 2011)**

- 2011 [Effect of Ag addition on mechanical properties of zinc-based alloy.](#) In: **International Conference in Mechanical & Manufacturing Engineering (ICME 2011)**
- 2011 [The application of Quality Function Deployment \(QFD\) and Rapid Prototyping \(RP\) technology in improving the design of anti sleep driving alarm.](#) In: **Proceedings of the 2011 International Conference on Industrial Engineering and Operations Management**
- 2011 [The study of the implementation of OHSAS : 18001 at Kulliyah of Engineering \(KOE\).](#) In: **International Conference on Mechanical, Automotive and Aerospace Engineering (ICMAAE' 11)**
- 2011 [Investigation of the effect of "Orange Peel" surface texture on the laser sintered part.](#) In: **International Conference on Mechanical, Automotive and Aerospace Engineering (ICMAAE' 11)**
- 2011 [Powder Mixed Micro Electro Discharge Milling of Titanium Alloy: Analysis of Surface Roughness.](#) In: **International Conference on Material and Manufacturing Technology**
- 2010 [Biogas energy potential in Riau Indonesia.](#) In: **International Conference on Technology for New and Renewable Energy (ICT-NRE)**
- 2010 [Influence of process parameters on surface integrity during EDM of mild steel.](#) In: **22nd United Kingdom-Malaysia Engineering Conference 2010**
- 2010 [The development of tool life estimation model based on volume loss method.](#) In: **IUUM Research, Innovation & Invention Exhibition (IRIIE 2010)**
- 2010 [Fabrication of Silicon Nanopillar Sheet for Cell Culture Dish.](#)
- 2010 [Fabrication of Silicon Nanopillar Sheet for Cell Culture Dish.](#)
- 2010 [Effect of Process Parameters on Abrasive Contamination During Water Abrasive Jet Machining of Mild Steel.](#)
- 2010 [Effect of Process Parameters on Abrasive Contamination During Water Abrasive Jet Machining of Mild Steel.](#)
- 2009 [Flank wear modeling in high speed turning.](#) In: **International Conference on Advances in Materials & Processing Technology (AMPT 2009)**
- 2009 [Tool life in high speed turning with negative rake angle.](#) In: **International Conference on Advances in Materials & Processing Technology (AMPT 2009)**
- 2009 [Modeling electric field distribution on insulator under electron bombardment in vacuum.](#) In: **Proceedings of World Academy of Science, Engineering and Technology**
- 2009 [Machining time stimulating in high speed hard tuning.](#) In: **International Conference on Advances in Materials & Processing Technology (AMPT 2009)**

Book

- 2012 [Advances in manufacturing and materials engineering.](#) Trans Tech Publications Ltd., . ISBN 978-3-03785-498-3

- 2011 [Design for manufacture: towards improved manufacturability](#) . IIUM Press . ISBN 9789674181598
- 2011 [Manufacturing management: from basic machining to quality product](#). IIUM Press . ISBN 9789674181659
- 2011 [Advanced machining towards improved machinability of difficult-to-cut materials](#). IIUM Press . ISBN 978-967-418-175-8
- 2011 [Advanced machining process](#). IIUM Press . ISBN 978-967-418-162-8
- 2011 [High speed cutting: an approach towards improved machining performance](#) . IIUM Press . ISBN 978-967-418-023-2
- 2010 [Performance of cermet tools : applying negative rake angles high speed machining](#). LAP Lambert Academic Publish GmbH & Co . ISBN 3843374783
- 2010 [Extended enterprise: an extension to supply-chain practice for small to medium enterprise](#). Lambert Academic Publishing . ISBN 9783843378840
- 2010 [Materials Processing and Precision Engineering: series 1](#). Department of manufacturing and Materials, Kulliyah of Engineering, IIUM

Book Section

- 2018 [Statistical analysis of energy absorption in aluminum foam sandwich under impact testing using the Taguchi design](#). In: **Reference module in materials science and materials engineering** Elsevier , pp.1-6
- 2011 [Improvement of typical hip-joint design for gripping and fixing](#) . In: **Design for manufacture: towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.26-43
- 2011 [Improvement of typical hip-joint design for gripping and fixing](#) . In: **Design for manufacture: towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.26-43
- 2011 [Improvement of typical hip-joint design for gripping and fixing](#) . In: **Design for manufacture: towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.26-43
- 2011 [Improvement of typical hip-joint design for gripping and fixing](#) . In: **Design for manufacture: towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.26-43
- 2011 [A surgical training model manufacture using fused deposition modeling](#) . In: **Design for manufacture: towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.44-49
- 2011 [A surgical training model manufacture using fused deposition modeling](#) . In: **Design for manufacture: towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.44-49
- 2011 [The development of cost estimation for quality assurance system in die-casting processes](#) . In: **Design for manufacture: towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.72-83

- 2011 [The effect of stucco system in ceramic shell investment casting](#) . In: **Design for manufacture: towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.139-149
- 2011 [Casting investigation of heat treated biocompatible materials for total hip bone replacement](#) . In: **Design for manufacture : Towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.151-160
- 2011 [Effects of austempering treatment on mechanical properties of ductile iron](#) . In: **Design for manufacture: towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.170-178
- 2011 [The project management challenges in technology innovation](#) . In: **Design for manufacture: towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.231-237
- 2011 [Critical chain in project management](#) . In: **Design for manufacture: towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.239-245
- 2011 [Tool wear and surface roughness aspects in heat assisted end milling of AISI D2 hardened steel](#). In: **Advanced Machining Towards Improved Machinability of Difficult-to-Cut Materials** IIUM Press . ISBN 9789674181758 , pp.35-42
- 2011 [Tool wear and surface roughness aspects in heat assisted end milling of AISI D2 hardened steel](#). In: **Advanced Machining Towards Improved Machinability of Difficult-to-Cut Materials** IIUM Press . ISBN 9789674181758 , pp.35-42
- 2011 [The effect of deep cryogenic treatment on the properties of AISI D2 tool steel](#) . In: **Design for manufacture: towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.286-293
- 2011 [Effect of welding process on formability of tailor welded blanks](#) . In: **Design for manufacture: towards improved manufacturability** IIUM Press . ISBN 9789674181598 , pp.294-306
- 2011 [Relative performances of preheating, cryogenic cooling and hybrid turning of stainless steel AISI 304](#). In: **Advanced Machining Towards Improved Machinability of Difficult-to-Cut Materials** IIUM Press . ISBN 9789674181758 , pp.49-56
- 2011 [Relative performances of preheating, cryogenic cooling and hybrid turning of stainless steel AISI 304](#). In: **Advanced Machining Towards Improved Machinability of Difficult-to-Cut Materials** IIUM Press . ISBN 9789674181758 , pp.49-56
- 2011 [Application of permanent electromagnet for chatter control in end milling of Titanium alloy - Ti6Al4V](#). In: **Advanced Machining Towards Improved Machinability of Difficult-to-Cut Materials** IIUM Press . ISBN 9789674181758 , pp.99-106
- 2011 [Application of permanent electromagnet for chatter control in end milling of Titanium alloy - Ti6Al4V](#). In: **Advanced Machining Towards Improved Machinability of Difficult-to-Cut Materials** IIUM Press . ISBN 9789674181758 , pp.99-106
- 2011 [Chatter suppression in end milling of Titanium alloy Ti6Al4V applying permanent magnet clamped adjacent to the workpiece](#). In: **Advanced Machining Towards Improved Machinability of Difficult-to-Cut Materials** IIUM Press . ISBN 9789674181758 , pp.107-115

- 2011 [Chatter suppression in end milling of Titanium alloy Ti6Al4V applying permanent magnet clamped adjacent to the workpiece.](#) In: **Advanced Machining Towards Improved Machinability of Difficult-to-Cut Materials** IIUM Press . ISBN 9789674181758 , pp.107-115
- 2011 [The effect of deep cryogenic treatment on the properties of AISI D2 tool steel.](#) In: **Manufacturing management from basic machining to quality product** IIUM Press . ISBN 9789674181659 , pp.32-39
- 2011 [Performance of uncoated WC-Co in end milling of Aluminium Silicon Carbide \(AlSiC\).](#) In: **Advanced Machining Towards Improved Machinability of Difficult-to-Cut Materials** IIUM Press . ISBN 978-967-418-175-8 , pp.255-260
- 2011 [Performance of uncoated WC-Co in end milling of Aluminium Silicon Carbide \(AlSiC\).](#) In: **Advanced Machining Towards Improved Machinability of Difficult-to-Cut Materials** IIUM Press . ISBN 978-967-418-175-8 , pp.255-260
- 2011 [Effects of scribing wheel dimensions on LCD glass cutting.](#) In: **Advanced Machining Towards Improved Machinability of Difficult-to-Cut Materials** IIUM Press . ISBN 9789674181758 , pp.259-265
- 2011 [Effects of scribing wheel dimensions on LCD glass cutting.](#) In: **Advanced Machining Towards Improved Machinability of Difficult-to-Cut Materials** IIUM Press . ISBN 9789674181758 , pp.259-265
- 2011 [Development of empirical models for surface roughness during high speed turning for hard materials using Box-Behnken design.](#) In: **High Speed Cutting: An Approach towards Improved Machining Performance** IIUM Press . ISBN 9789674180232 , pp.31-38
- 2011 [Crashing a project in PERT/CPM network .](#) In: **Manufacturing management from basic machining to quality product** IIUM Press . ISBN 9789674181659 , pp.91-98
- 2011 [Influence of backcutting phenomena to surface roughness of hardened AISI H13 during high speed end milling process.](#) In: **High Speed Cutting: An Approach towards Improved Machining Performance** IIUM Press . ISBN 9789674180232 , pp.81-92
- 2011 [Experimental investigations in high-speed hard turning of AISI 4340 steel using mixed ceramic.](#) In: **High Speed Cutting: An Approach towards Improved Machining Performance** IIUM Press . ISBN 9789674180232 , pp.93-100
- 2011 [Development of tooling cost model in high speed hard turning.](#) In: **High Speed Cutting: An Approach towards Improved Machining Performance** IIUM Press . ISBN 9789674180232 , pp.125-144
- 2011 [Development of new model for cutting force in high speed hard turning.](#) In: **High Speed Cutting: An Approach towards Improved Machining Performance** IIUM Press . ISBN 9789674180232 , pp.145-152
- 2011 [Influence of machining parameters on surface roughness during EDM of mild steel.](#) In: **Advanced Machining Process** International Islamic University Malaysia . ISBN 9789674181628 , pp.33-37
- 2011 [Formation of micro-cracks and recast layer during EDM of mild steel using copper electrodes.](#) In: **Advanced Machining Processes** International Islamic University Malaysia . ISBN 9789674181628 , pp.44-48

- 2011** [New tool life models in turning hardened steel AISI 4340 under high cutting speed.](#) **In: High Speed Cutting - An Approach towards Improved Machining Performance** IIUM Press . ISBN 978-967-418-023-2 , pp.3-16
- 2011** [In-Situ syntheses of high wear resistant coating reinforced Ti-6Al-4V Matrix.](#) **In: Manufacturing management from basic machining to quality product** IIUM Press . ISBN 9789674181659 , pp.173-179
- 2011** [High speed end milling in mould and die making.](#) **In: High Speed Cutting - An Approach towards Improved Machining Performance** IIUM Press . ISBN 978-967-418-023-2 , pp.17-29
- 2011** [Quality management system: in light of project management.](#) **In: Manufacturing management from basic machining to quality product** IIUM Press . ISBN 9789674181659 , pp.251-258
- 2010** [Investigation of Microholes Produced by Focused Ion Beam Micromachining.](#) **In: Materials Processing and Precision Engineering** Department of Manufacturing and Materials, Kulliyah of Engineering, IIUM , pp.92-97
- 2010** [Investigation of Microholes Produced by Focused Ion Beam Micromachining.](#) **In: Materials Processing and Precision Engineering** Department of Manufacturing and Materials, Kulliyah of Engineering, IIUM , pp.92-97