

Curriculum Vitae



Raja Izamshah bin Raja Abdullah *Assoc. Prof, Er. (H), Dr., CEng. MIMechE*

**Head of Cluster Advanced Materials and Precision Engineering,
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scholar.google.com/citations?user=xoTBJCMAAAAJ&hl=en



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Research Interest

CAD/CAM/CAE, Precision Machining, Biomedical Engineering, Modeling in Manufacturing

Academic and Professional Qualifications

Year	Degree	Discipline	University
2015	Post-Doc.	Manufacturing Engineering	Tokushima University, Japan
2012	PhD.	Manufacturing Engineering	RMIT University, Australia
2005	MSc.	Manufacturing Engineering	University of Birmingham, United Kingdom
2004	BEng.	Mechanical Engineering	Universiti Teknologi MARA, Malaysia (UiTM)
2000	Dip.	Mechanical Engineering	Universiti Teknologi Malaysia, Malaysia (UTM)
1997	Cert.	Computer Engineering	South Kent College, Kent United Kingdom

List of Professional Body and Association

	Professional Association	Membership No.
1	Institute of Mechanical Engineers (IMechE) – Chartered Engineer	80349792
2	Board of Engineers Malaysia (BEM)	87621A
3	Institute of Engineers Malaysia (IEM)	66712
4	International Association of Engineers (IAENG)	138127
5	Malaysian Tribology Society (MYTRIBOS)	O0114
6	Malaysia Design Council (MRM)	1-A-000239
7	Malaysia Trainers & National Industrial Expert Society (MANDATE)	RSM-0000040-HM (Honorary Advisor for Artificial Intelligence)
8	Japan Society of Mechanical Engineers (JSME)	1508701

Professional Experience

	Position	Year
1	Associate Professor	2017 to date
2	Head of Cluster Advanced Materials and Precision Engineering	2019 to date
3	Head of Precision Machining Research Group	2016 to 2019
4	Head of Department Manufacturing Process	2014 - 2015
5	Senior Lecturer	2012 - 2017
6	Lecturer	2006 - 2012

Completed/On-Going Research Project

	Project title	Funder	Ref. No.	Amount	Role
1.	Design and Fabrication of Energy Efficient Drying System	UTeM	PJP/2006/FKP (18) S229	RM 20,000	Leader
2.	Five-Axis Side Cutting Machining on The Curved Shape of Aircraft Parts (Aluminum 7075)	MOHE	FRGS/2007/FKP (14) F0039	RM 54,000	Co-Researcher
3.	Shaft Alignment Solution Using Spreadsheet Application	UTeM	PJP/2006/FKP (14) S00229	RM 20,000	Co-Researcher
4.	Development of Acrylic Plastic Injection Mould Base for Education Purpose	UTeM	PJP/2006/FKP (17) S00228	RM 20,000	Co-Researcher
5.	A Novel Study on the Effects of Cutter Geometrical Feature in Component Failure for Machining Thin-Wall Low Rigidity Structural Component	MOHE	FRGS/2012/FKP/TK01/03/2/F00134	RM 61,500	Leader
6.	Sustainable Manufacturing Technique for Biomedical Implant Material	MOHE	FRGS (RACE) /2012/ FKP/TK01/02/1/F00153	RM 48,000	Leader
7.	'Grinder less' Mirror Surface Sculptured Profile Machining	MOHE	RAGS/2012/UTeM/TK01/7	RM 63,000	Co-Researcher

	Strategies for Future Advanced High Speed Machining of Hardened Mould and Die Material				
8.	Sustainable Conventional Machining Process for Composite Tool	MOHE	MTUN/2012/UTeM-FKP/13/M0021	RM 88,000	Co-Researcher
9.	Geo Composite Manufacture	MOHE	MTUN/2012/UTHM-FKP/2/M0002	RM 73,800	Co-Researcher
10.	Super Energy Saving Locking System	MOHE	Gluar/2012/FKP(1)/G00010	RM 140,485.30	Co-Researcher
11.	Modified of Cooling System of Dumbell Injection Mould : Reducing of Warpage Defect	UTeM	PJP/2012/FKP(25B)/S01028	RM 27,000	Co-Researcher
12.	Improvement of Microstructure and Mechanical Properties of Aluminum Alloy 1050 H24 by Localized Laser Heat Treatment	UTeM	PJP/2012/FKP(1B)/S01093	RM 25,500	Co-Researcher
13.	High Speed Machining of AISI D2 for Stamping Die Applications	UTeM	PJP/2012/FKP(49C)/S01056	RM 21,000	Co-Researcher
	Improving the Machinability of AISI D2 Using Hybrid Machining for Metal Stamping Industry	MOHE	RAGS/2012/FKP/TK01/1 B00012	RM 80,000	Co-Researcher
14.	Growth and Characterization of vertically Aligned Carbon Nanotube on Conducting Substrate Using Ethanol-Based Growth Technique	MOHE	ERGS/2013/FKP/TK04/UTeM/02/01/E00031	RM 116,000	Co-Researcher
15.	Effects of Thermal Conductivity Variations on Surface Integrity and Tool Wear During Machining High Thermal Conductivity Steel (HTCS)	MOHE	FGRS/2/2013/TK01/FKP/02/1/F00175	RM 85,000	Co-Researcher
16.	Machinability of Titanium Alloy Using Different Coating Methods Of Carbide Tools	UTeM	PJP/2013/FKP(15B)/S01219	RM 24,000	Co-Researcher
17.	A Novel Twin Spindle Milling Cutter Strategy for Effectively Machining Thin-Wall Aerospace Structural Component	UTeM	PJP/2013/FKP(19C)/S01278	RM 21,100	Leader
18.	Portable Accumulator for Domestic Water System	UTeM	PJP/2013/FKP(18A)/S01276	RM 20,200	Co-Researcher
19.	High Performance Cutting Tool Specifically for Machining Thin-Wall Low Rigidity Aerospace Component: A Prototype	UTeM	PJP/2013/PROTOTYP E/FKP)/S01292	RM 20,000	Leader
	Evaluation of Human-Machine Relationship In Terms of Biological Somatosensory And Non-Biological Sensory Stimulations	MOHE	FRGS/2/2013/SG02/UTeM/02/1	RM 80,000	Co-Researcher
20.	A Novel Approach of Carbon Powders Assisted Conventional Electrical Discharge Machining on Low Conductivity Silicon Carbide	MOHE	FRGS/1/2014/TK01/UTeM/02/6	RM 79,000	Co-Researcher
21.	A New Approach of Flow Visualization Technique Using Slanted Glass To Enhancement Plastic Part Quality	MOHE	FRGS/1/2014/TK01FKP/02/F0024	RM 90,000	Co-Researcher
23.	Investigation on the Effect of Machining Strategies on the Surface Finish and Dimensional Accuracy of Five-Axis Flank Machining of Curvy Angled Shapes; Tanto Fan, Combin Tanto and Combin Parelm	MOHE	RAGS/1/2014/TK01/UTeM//4	RM 58,500	Co-Researcher
24.	Cutting Parameter Optimization of Hybrid Micro-rotary Wire Electrical Discharge for Surgical Device Fabrication	MOHE	FRGS/2/2014/TK01/UTeM/03/2	RM 105,000	Co-Researcher
	Feasibility Study of Injection Moulding Parameter for Recycle HDPE Material	UTeM	PJP/2014/FKP(3A)S01320	RM 20,000	Co-Researcher
25.	Sustainable Compression Molding Process of Hybrid NR/EPDM Elastomeric Blend filled Nano-	UTeM	PJP/2016/FKP/HI6/S01486	RM 48,500	Leader

	Graphene				
26.	Synthesis of Graphene Nanoplatelets using Catalytic CVD and Waste Oil as Carbon Feedstock	UTeM	PJP/2016/FKP/HI6/S01483	RM 50,000	Co-Researcher
27.	Multi-Objectives Optimisation of Hybrid Rotary Ultrasonic Assisted Micro Drilling on Chemically Strengthened Glass	TMAC	Glue/TOKUSHIMA/2017/FKP-AMC/A00010	RM 20,000	Leader
28.	Influence Of Tool Geometrical Design And Machining Parameters In Reducing Damages Of Cfrp during Trimming Process	MOHE	FRGS/2018/FKP-AMC/F00378	RM 80300.00	Co-Researcher
29.	Study of Fundamental Peck Drilling Procedure on the Materials Characteristic of FRP Composite	MOHE	FRGS/2018/FKP-UTEM/02/4	RM 100000.00	Co-Researcher
30.	PROTOTYPE DEVELOPMENT OF ROTARY-ULTRAFINE WIRE ELECTRO DISCHARGE MACHINING DEVICE FOR MICRO-CUTTING COMPLEX DESIGN PRODUCTS	MOHE	PRGS/1/2019/TK03/UTEM/02/1	RM 132000.00	Leader

List of Award / Innovation / Achievement

1. **2012 Thatcher Bros Prize Award** by Manufacturing Industries Division, Institution of Mechanical Engineers (IMechE) United Kingdom. Title "Hybrid Deflection Prediction on Machining Thin-Wall Monolithic Aerospace Components".
2. **2013 Best Paper Award for Mechanical & Manufacturing Division**, Malaysian Technical University Conference of Engineering Technology 2013. Title "Novel Hybrid Efficient Computational Methodology for Surface Error Prediction on Machining Curve Flexible Component"
3. **2014 Gold Medal Award**, 25th International Invention, Innovation & Technology Exhibition (ITEX 2014). Title "Recycled Plastic Tiles"
4. **2014 Gold Medal Award**, 25th International Invention, Innovation & Technology Exhibition (ITEX 2014). Title "Carbon Based Hybrid Supercapacitor"
5. **2014 Gold Medal Award**, Seoul International Invention Fair (SIIF 2014). Title "Carbon Based Hybrid Supercapacitor"
6. **2014 Bronze Medal Award**, Seoul International Invention Fair (SIIF 2014). "Recycled Plastic Tiles"
7. **2014 Bronze Medal Award**, National Innovation and Invention Competition (iCompEx 2014). "Cutter Path Strategy for Grinderless Machining"
8. **2014 Gold Medal Award**, UTeMEX 2014 Title "A New Approach of Surface Morphology and Roughness Measurement for Small Hole in Drilling Process"
9. **2014 Bronze Medal Award**, UTeMEX 2014 Title "Portable Accumulator for Domestic Water System"
10. **2015 Best Paper Award in International Conference on Design and Concurrent Engineering**. Tokushima, Japan. Title "Malay Corpus Design for Articulation Disorder Patient for Early Screening Diagnosis"
11. **2015 Bronze Medal Award**, Malaysia Technology Expo 2015 "A New Approach of Surface Roughness Measurement for Small Hole in Drilling Process"
12. **2016 Gold Medal Award**, UTeMEX 2016 Title "Low Cost Recycle Plastic Workpiece for Teaching & Learning"
13. **2016 Silver Medal Award**, UTeMEX 2016 Title "Hybrid Rotary WEDM for Micro Cylindrical Part"
14. **2016 Silver Medal Award**, UTeMEX 2016 Title "Twin Spindle Cutter Adapter for Machining Thin Wall Workpiece"
15. **2016 Bronze Medal Award**, Malaysia Technology Expo 2016 Title 'Shockwave guard'
16. **2016 Gold Medal Award**, INOFPTT 2016 Title "Engineered Recycled Plastic Tiles"
17. **2016 3rd Place in Best Paper Award**, International Conference on Advanced Processes & System in Manufacturing. Title 'Investigation on Improvement of Surface Roughness Using Rotary Ultrasonic Assisted Machining Technique for Hardened Steel Material'

18. **2016 Gold Medal Award**, MINI-UTeMEX 2016 Title “High Performance Surgical Drill Bit’
19. **2016 Gold Medal Award**, MINI-UTeMEX 2016 Title “Smart Clothes Drying System’
20. **2016 Gold Medal Award**, MINI-UTeMEX 2016 Title “Hybrid Micro Wire Electrical Discharge’
21. **2016 Best Paper Award**, Innovative Research and Industrial Dialogue (IRID’16) Title “Evaluation of Temperature on Different Penetration Angle for Orthopedic Surgical Drilling”
22. **2017 Silver Medal Award**, ITEX 17 Title “Twin Spindle Cutter Adapter for Machining Thin Wall Workpiece”
23. **2017 Silver Medal Award**, ITEX 17 Title “OR+HO-DRILL”
24. **2017 Silver Medal Award**, ITEX 17 Title “Smart Clothes Drying System”
25. **2017 Silver Medal Award**, ITEX 17 Title “SMART WUDHU”
26. **2017 Silver Medal Award**, ITEX 17 Title “Shaft Alignment Kit”
27. **2017 Gold Medal Award / Special Award**, UTeMEX 17 Title “Thixoforming of Automotive Part in LM6 Hypoeutectic Alloy”
28. **2017 Silver Medal Award**, UTeMEX 17 Title “High Speed Shearing-Slitting Machine”
29. **2017 Silver Medal Award**, UTeMEX 17 Title “Eco Aroma Tiles”
30. **2017 Bronze Medal Award**, UTeMEX 17 Title “Portable Water Jet Clamping”
31. **2017 Best PhD Thesis**, UTeM Convocation Title “Development of High Performance Surgical Drill” – **Main Supervisor**
32. **2018 Gold Medal Award, Special Award (German), Special Award (Poland)** 46TH INTERNATIONAL EXHIBITION INVENTIONS GENEVA Title “OR+HO-DRILL”
33. **2018 Special Award (German)**, 46TH INTERNATIONAL EXHIBITION INVENTIONS GENEVA Title “OR+HO-DRILL”
34. **2018 Special Award (Poland)**, 46TH INTERNATIONAL EXHIBITION INVENTIONS GENEVA Title “OR+HO-DRILL”
35. **2018 Best Poster Award**, Mechanical Engineering Research Day (MERD’18) Title “Swelling Effect of NR/EPDM Filled Nano Graphene”
36. **2018 Best Poster Award**, Innovative Research and Industrial Dialogue 2018 (IRID’18) Title “Investigation of dimensional accuracy on simultaneous five-axis tool paths strategies for biomedical product utilizing CATIA V5”
37. **2019 Silver Medal Award**, Creation, Innovation, Technology & Research Exposition (CITREx 2019), Title “Strained Muscles Pes Planus Flat Footed Discomfort Solution”

Intellectual property / Copyright / Trademark

1. **PI 2014703512**: Graphene Electrode Super Capacitor and Method to Manufacture Thereof
2. **PI 2014703490**: A Plastic Wall Tile and Method of Manufacturing Thereof
3. **CRLY2014000525**: Malacca Eco Stylish Tiles
4. **CRLY2014000524**: Carbon Based Hybrid Supercapacitor
5. **CRLY00002191**: Multi-Adjustable Tool for Friction Stir Welding
6. **CRLY2016001948**: Micro Wire Electrical Discharge Machining Rotary Adapter
7. **CRLY00005541**: Twin Spindle Milling Cutter Adapter
8. **CRLY2016001950**: Hot Press Machine of Recycle Plastic
9. **CRLY2016001951**: Pump Footing System for Misalignment Correction

Supervisor for Postgraduate Students

1. PhD. (Research)

	Name	Thesis Title	Role	Year	Status
1.	Ir. Noorazizi Bin Samsuddin	Multi Objective Optimisation for Bone Drilling	Main Supervisor	2014	Completed
2.	Azlan Bin Ramli	Grinderless High Speed Machining Strategies of Hardened Mould and Die Material	Main Supervisor	2014	Submitted
3.	Sadiq Aziz Hussein	The Process Parameter Effects on Hybrid Structure of Dissimilar Materials Made by Friction Stir Welding	Co-Supervisor	2013	Completed
4.	Mohd Hafiz B Hj Md Sani @ Abd Rahim	Ultrasonic Assisted Rubber Molding Process	Co-Supervisor	2016	On-Going
5.	Mohanad Al-Tamimi	New Cutter Path Strategy for Twin Spindle Milling on Machining Thin-Wall Aerospace Structural Component	Co-Supervisor	2016	On-Going
6.	Syahrul Azwan Bin Sundi	Multi-Objective Optimisation of Trimming CFRP	Main Supervisor	2017	On-Going
7.	Mohd Fairuz Bin Jaafar	Development of Robust Drill for CFRP	Co-Supervisor	2017	On-Going
8.	Muhammad Akmal bin Mohd Zakaria	Parameter Optimization for Hybrid Ultrasonic Rotary Micro Wire EDM	Main Supervisor	2017	On-Going
9.	Mohamad Halim bin Ibrahim	Multi Objective Optimization for Hybrid Rotary Micro Wire EDM	Main Supervisor	2017	On-Going

2. MSc. of Manufacturing Engineering (Research)

	Name	Thesis Title	Role	Year	Status
1.	Nor Mohamad B Sulong, Alloy	Analysis of EDM Parameters on Surface Roughness, Material Removal Rate, Electrode Wear and Microstructure of Beryllium Copper	Co-Supervisor	2008	Completed
2.	Nurul Husna Binti Mohd Nawawi	Optimisation of Cutter Geometrical Feature for Machining Orthopaedic, Trauma and Spinal Biomaterial Implant	Main Supervisor	2012	Completed
3.	Aaron Yu Lung	Optimisation of Machining parameter and Annealing Condition for Machining Polyetheretherketones (PEEK) Biomaterials Implant	Main Supervisor	2012	Completed
4.	Abdul Alif Bin Abdul Aziz	Robust Design Analysis of Energy Saving Locking System	Co-Supervisor	2012	Completed
5.	Siti Sarah Nadia Binti Ahmad	Conventional Machining Process for Composite Tool	Co-Supervisor	2012	Completed
6.	Nurul Fatin Binti Mohamad Raffi	Surface Integrity in Ball End Milling of AISI D2 Tool Steel	Co-Supervisor	2012	Completed
7.	Mohd Zulhairi Bin Tajry	A Novel Study on the Effects of Cutter Geometrical Feature in Component Failure for Machining Thin-Wall Low Rigidity Structural Component	Main Supervisor	2012	Completed
8.	Defriansyah	Analysis of Top Cover of Battery Design for Stamping Die	Co-Supervisor	2012	On-Going
9.	Muhammad Helmi Bin Asnan	Twin Spindle Milling Cutter Strategy for Effectively Machining Thin-Wall Aerospace Structural Component	Main Supervisor	2014	Completed
10.	Muhammad Akmal bin Mohd Zakaria	Cutting Parameter Optimization for Hybrid Rotary Micro Wire EDM	Main Supervisor	2014	Completed
11.	Bahrin Ikram Bin	Machinability of Titanium Alloy Using	Main	2014	

	Redzuwan	Different Coating Methods Of Carbide Tools	Supervisor		Completed
12.	Mohamad Razly Bin Mohd Raffay	Investigation on the Effect of Machining Strategies on the Surface Finish and Dimensional Accuracy of Five-Axis Flank Machining	Main Supervisor	2014	On-Going
13.	Muhammad Hafiz Bin Samsudin	Improving the Machinability of AISI D2 Using Hybrid Machining for Metal Stamping Industry	Co-Supervisor	2014	On-Going
14.	Mohd Zaki Bin Kasman	Parameter Optimization for Compression Molding Process of Hybrid NR/EPDM Elastomeric Blend filled Nano-Graphene	Co-Supervisor	2016	On-Going
15.	Muhamad Firdaus Bin Abd Rasid	Multi-Objectives Optimisation of ybrid Rotary Ultrasonic Assisted Micro Drilling on Chemically Strengthened Glass	Main Supervisor	2017	On-Going
	Nur Syuhada Binti Md Nasir	Cutting Parameter Optimization for Micro Drilling of Stack CFRP Material	Co-Supervisor	2019	On-Going

3. Master of Engineering (Mix/Mode)

	Name	Thesis Title	Role	Year	Status
1.	Liyana Binti Norizan	Cutter Path Strategy for Grinderless Machining	Main Supervisor	2012	Completed
2.	Mohd Hafiz Bin Hj Md Sani	Machining of Hybrid Composite Material	Main Supervisor	2012	Completed
3.	Shakiwan Bin Shabri	Multi Objectives Optimisation on Machining Graphite Material	Main Supervisor	2013	Completed
4.	Ahmad Bin Omar	Optimisation of Cutter Path for Machining Engineered Plastic	Main Supervisor	2013	Completed
5.	Mohd Firdaus Bin Mohd Yusof	Optimisation of Drill Bit for Surgical Application	Main Supervisor	2013	Completed
6.	Zuraidah Binti Zainuddin	Multi-Objectives Optimization of Cutting Parameters in Machining Cellulose Based Hybrid Composites	Main Supervisor	2013	Completed
7.	Salleh Bin Aboo Hassan	Study on the Effects of Cutter Geometrical Feature in Component Failure for Machining Thin-Wall Structural Parts	Main Supervisor	2013	Completed
8.	Premnathan A/L Ramalingam	Elimination of Condensation and Icing for Temperature Cycle Chambers	Main Supervisor	2016	Completed
9.	Hairulhisham Bin Rosnan	Optimisation of Machining Parameter for Trimming CFRP Material using Vibration Assisted Machining	Main Supervisor	2016	Completed
10.	Mohd Isa Bin Abdul Rahim	Optimization of Drilling Parameter for Glass Fiber Reinforced Polymer (GFRP) Material Using RSM	Main Supervisor	2017	Completed
11.	Norshahidah Binti Manaf	Effect Of Milling Parameter on Machining Natural Fiber Composite Panel	Main Supervisor	2017	Completed

Invited Speaker / Keynote / Lecture

- Invited Speaker for Research Methodology Course, Study Leave Division, UTeM, 2012, Title 'Instrumentation and Measurement for Research'
- Invited Speaker for BioKube Solution Sdn. Bhd. for BioCell Program, 2013, Title 'Bio-Nano Materials'
- Invited Speaker for Postgraduate Advanced Manufacturing Course, UTeM, 2013, Title 'Electrical Discharge Machining'
- Plenary Talk for International Conference on Functional Materials and Microwaves (ICFMM-2015), Dpt. of Physics, Dr. Babasaheb Ambedkar University, Aurangabad, Maharashtra, India.
- Invited Speaker for International Symposium on Global Engineering Education (ISOGEE 2015), Center for International Cooperation in Engineering Education (CICEE), Faculty of Engineering, University of Tokushima, Japan.
- Invited Speaker for Summer School Program, Graduate School of Advanced Technology and Science, University of

Tokushima, JAPAN, 2015, Title 'Composite Application in Aerospace'

7. Invited Speaker for Institute of Engineer Malaysia, Negeri Sembilan, 2016, Title 'Trends in Materials Processing'
8. Invited Speaker for Postgraduate Center UTeM, 2017, Title "Applied Modern DOE for Process Optimization"
9. Invited Speaker for 2018 International Conference on Material and Applied Mechanics (MSAM 2018), Kitakyushu, Japan, Title "Parameter optimization on hybrid cylindrical wire electrical discharge μ -turning of Ti6Al4V material"
10. Invited Speaker for Engineering Technology Accreditation Council (ETAC), Politeknik Merlimau, Melaka. Title "Education Programme Accreditation Program and Inspector of Works".
11. Invited Keynote Speaker for International Conference on Smart Materials, Intelligent Manufacturing and Automation (SMIMA 2019), Shenzhen, China, Title "A Comparison Between Engineered Polymer PEEK and Metal. Why is Plastic Better?"
12. Invited Keynote Speaker for International Symposium on Science, Technology and Engineering (ISSTE2019), Malaysia, Title "Numerical and Experimental Investigation of Roles of Double Helix Angle on Trimming Aerospace CFRP"

Editor / Editorial Board Reviewer

- 1) Chief Editors, International Journal of Innovative Research in Engineering & Multidisciplinary Physical Sciences (IJIRMPs)
- 2) Editor, Journal of Materials Science, MAYFEB Technology Development Canada
- 3) Editorial Board, Journal of Advanced Manufacturing Technology (JAMT) - System Engineering Cluster
- 4) Editor, Proceeding of TMAC Autumn Symposium 2015
- 5) Editorial Board Reviewer Proceeding of MITC2015
- 6) Editorial Board Reviewer Proceeding of ICME2014
- 7) Editorial Board Reviewer Proceeding of IDECON2012

Training / Courses / Workshop

- 1) Innovative Leadership Development Program and Transformation, 2012
- 2) Fundamental Basic Machining CATIA V5 Course, 2012
- 3) Advanced Machining CATIA V5 Course, 2012
- 4) Rotary Ultrasonic Assisted Machining Training, 2015
- 5) HAAS 3 Axis CNC machine Training, 2015
- 6) DMG 5 Axis CNC milling Training, 2016
- 7) SODICK Electrical Discharge Machine Training, 2016
- 8) DMG High Speed 5 Axis CNC milling Training, 2017
- 9) Advances in Materials and Processing Technologies (AMPT), Kuala Lumpur, 2016
- 10) Advanced Processes and Systems in Manufacturing (APSIM), Putrajaya, 2016
- 11) Mechanical Engineering Research Day 2016, Malaysia
- 12) International Conference on Defence & Security Technology (DSTC2016), Malaysia
- 13) International Conference on Functional Materials and Microwaves (ICFMM-2015),
- 14) Malaysian International Tribology Conference (MITC), Penang, 2015
- 15) International Symposium Scheduling (ISS), Kobe, 2015
- 16) JSME Conference, Yokohama, March 2015
- 17) JSME D&S Conference, Nagano, Sept 2015
- 18) Innovative Research and Industrial Dialogue 2016 (IRID'16), Malaysia
- 19) International Symposium on Global Engineering Education, Tokushima, 2015
- 20) International Conference on Design and Concurrent Engineering (IDECON 2016), Malaysia.
- 21) International Conference on Design and Concurrent Engineering (IDECON 2015), Japan
- 22) International Conference on Design and Concurrent Engineering (IDECON 2014), Malaysia

Professional Appointments

1. Honorable Advisor for Malaysia Trainers & National Industrial Expert Society (MANDATE)

2. External Examiner for Final Examination Paper Engineering Programme, Ministry of Education, Polytechnic and Community College Division
3. External Examiner for Final Examination Paper Manufacturing Engineering Programme, Polytechnic Muadzam Shah, Pahang
4. External Examiner for Mechanical and Manufacturing Engineering Programme, Polytechnic Merlimau, Melaka
5. External Examiner for Mechanical and Manufacturing Engineering Programme, Polytechnic Port Dickson, N. Sembilan
6. External Examiner for Marine Engineering Programme, Polytechnic Ungku Omar, Ipoh
7. Advisor for Manufacturing Engineering Programme, Butterworth Vocational College, Penang
8. External Examiner for Final Examination Paper Mechanical and Manufacturing Engineering Programme, Malaysian Polytechnic
9. Ketua Panel Penilai Projek Inovasi JKM, Politeknik Merlimau, Melaka (3rd Oct 2017)
10. Auditor for Engineering Technology Accreditation Council (ETAC) Board of Engineer Malaysia

List of Publications

2019

1. SA Sundi, **R Izamshah**, MS Kasim, ATM Amin, T Kumaran, (2019), "Influence of Router Tool Geometry on Surface Finish in Edge Trimming of Multi-Directional CFRP Material", IOP Conference Series: Materials Science and Engineering 469 (1), pp. 012026 (Scopus-Index)
2. SA Sundi, **R Izamshah**, MS Kasim, MKA Abdullah, (2019), "Effect of machining parameters on surface quality during edge trimming of multi-directional CFRP material: Taguchi method", IOP Conference Series: Materials Science and Engineering 469 (1), 012095 (Scopus-Index)
3. N Syuhada Nasir, N Ab Wahab, **R Izamshah**, H Sasahara, SA Sundi, (2019), "Thrust force and tool wear investigation of micro drilling for carbon fiber reinforced polymer (CFRP) material", Proceedings of Mechanical Engineering Research Day 2019, pp. 54-56
4. SA Sundi, **R Izamshah**, MS Kasim, MF Jaafar, N Syuhada Nasir, MH Hassan, (2019), "Effect of edge trimming parameters on surface quality of carbon fiber reinforced polymer composites (CFRP): Taguchi Method", Proceedings of Mechanical Engineering Research Day 2019, pp. 318-319
5. MS Noorazizi, KR Jamaludin, S Sarip, **R Izamshah**, R Zamri, L Abdullah, MN Maslan, (2019), "An Investigation of chip formation on different penetration angle for orthopaedic surgical bone drilling", Proceedings of Mechanical Engineering Research Day 2019, pp. 328-329
6. MAM Nawi, MR Amin, MS Kasim, **R Izamshah**, MI Ishak, (2019), "The Influence of Spiral Blade Distributor on Pressure Drop in a Swirling Fluidized Bed", IOP Conference Series: Materials Science and Engineering 551 (1), pp. 012106 (Scopus-Index)
7. MS Kasim, MSA Hafiz, J A Ghani, C H C Haron, **R Izamshah**, MSA Aziz, WNF Mohamad, PK Wong, J Saedon, (2019), "Chip morphology in ball nose end milling process of nickel-based alloy material under MQL condition", The International Journal of Advanced Manufacturing Technology, vol. 103, iss. 9-12, pp. 4621-4625 (ISI-Index)
8. MAM Zakaria, **RIR Abdullah**, MS Kasim, MH Ibrahim, (2019), "Enhancing the Productivity of Wire Electrical Discharge Machining Toward Sustainable Production by using Artificial Neural Network Modelling", EMITTER International Journal of Engineering Technology, vol. 7, no. 1, pp. 261-274 (ISI-Index)
9. MS Kasim, MSA Hafiz, J A Ghani, C H C Haron, **R Izamshah**, SA Sundi, SB Mohamad, IS Othman, (2019), "Investigation of surface topology in ball nose end milling process of Inconel 718", Wear, vol. 426, pp. 1318-1326 (ISI-Index)
10. MSA Aziz, A Mizobuchi, **R Izamshah**, MS Kasim, (2019), "Helical micro-hole drilling of chemically strengthened glass using capsule-shaped electroplated diamond tool", Journal of Advanced Manufacturing Technology, vol. 13, no. 2, pp. 1-15 (Scopus-Index)
11. MSA Hafiz, MS Kasim, WNF Mohamad, NSM Zainurin, IS Othman, **R Izamshah**, M Akmal, SB Mohamed, MAM Nawi, (2019), "The effects of dry and chilled air on tool wear behavior during face milling of Inconel 718", Jurnal Tribologi, vol. 21, pp. 47-62 (Scopus-Index)
12. MHA Bakar, N Fahmi, N Tamin, A Afuza, **R Izamshah**, (2019), "Surface integrity study for FC300 cast iron using TiAlN ball end mill", Jurnal Tribologi, vol. 21, pp. 35-46 (Scopus-Index)
13. MF Jaafar, MS Salleh, **R Izamshah**, MH Hassan, SA Sundi, MSA Hafiz, MS Kasim, (2019), "Influence on thrust force and delamination for one shot drilling of carbon fibre reinforced plastic", Int. J. of Mech. & Mechatronics Eng.,

14. **R Izamshah**, MS Kasim, (2019), "Surface Roughness Analysis of Zirconia Dental Restoration Manufactured Through CNC Milling Machine", Proceedings of the 2nd Symposium on Intelligent Manufacturing and Mechatronics, pp. 361-371.
15. A Ramli, **R Izamshah**, M Akmal, (2019), "Improvement of Material Removal Rate (MRR) Through Ultrasonic Vibration Frequency in Machining Hardened Material", Proceedings of the 2nd Symposium on Intelligent Manufacturing and Mechatronics, pp. 321-332.
16. N Idayu, MAM Ali, MS Kasim, MSA Aziz, **RIR Abdullah**, (2019), "Flow Analysis of Three Plate Family Injection Mould Using Moldflow Software Analysis", Proceedings of the 2nd Symposium on Intelligent Manufacturing and Mechatronics, pp. 387-398.
17. MAHM Nawawi, MHM Hanid, WA Mustafa, MS Kasim, **RIR Abdullah**, (2019), "Pollutant Emission in Diesel Engine", Proceedings of the 2nd Symposium on Intelligent Manufacturing and Mechatronics, pp. 288-298.

2018

18. **R Izamshah**, M Akmal, S Kasim, MK Sued, SA Sundi, M Amran, (2018), "Parametric Study on Parameter Effects in Hybrid Micro Wire Electrical Discharge Turning", Journal of Advanced Manufacturing Technology (JAMT), Vol. 12, No. 1, pp. 1-12 (Scopus-Index)
19. **R Izamshah**, M Akmal, S Kasim, S.B. Mohamed, (2018), "Experimental Analysis on Parameters Affecting the Material Removal Rate in Wire Electrical Discharge Turning using the Taguchi Method", International Journal of Mechanical & Mechatronics Engineering, Vol. 18, Issue 5, pp. 75-82 (Scopus-Index)
20. **R Izamshah**, H Affendi, JPT Mo, MS Kasim, S Ding, et al. (2018), "Simultaneous Twin Cutter Technique for Machining Thin Wall Low Rigidity Part", Journal of Advanced Manufacturing Technology (JAMT), Vol. 12, No. 1(4), pp. 1-12 (Scopus-Index)
21. **R Izamshah**, M Akmal, MA Ali, MS Kasim (2018), "Performance evaluation of rotary mechanism characteristics by response surface methodology in cylindrical wire electrical discharge turning", Journal Advances in Materials and Processing Technologies, Vol. 4, No. 2, pp. 281-295.
22. **R Izamshah**, MS Noorazizi, MS Kasim, M Hadzley, MA Ali, SA Sundi, (2018), "Optimization of Drill Geometry Design to Minimize Thermal Necrosis in Surgical Bone Drilling", Journal of Advanced Manufacturing Technology (JAMT), Vol. 12, Issue 1, No. 2, pp. 425-436 (Scopus-Index)
23. A Mizobuchi, MSA Aziz, **R Izamshah**, T Ishida, (2018), "Chip Discharge Performance of Micro-Hole Drilling through a Glass Plate using an Electroplated Diamond Tool with Different Drill Bits", International Journal of Precision Engineering and Manufacturing, Vol. 19, Issue 9, pp. 1273-1280 (ISI-Index)
24. MAM Ali, NIM Ali, MS Kasim, **R Izamshah**, Z Abdullah, et al. (2018), "Multi-Response Optimization of Plastic Injection Moulding Process Using Grey Relational Analysis Based In Taguchi Method", Journal of Advanced Manufacturing Technology (JAMT), Vol. 12, Issue 1, No. 3, pp. 87-98 (Scopus-Index)
25. SA Sundi, **R Izamshah**, MS Kasim, MR Raffay (2018), "The Effect of Surface Finish by Varying Machining Strategies of Five-Axis Flank Milling for Curvy Angled Convex Profile", Journal of Advanced Manufacturing Technology (JAMT), Vol. 12, Issue 1, No. 1, pp. 213-222 (Scopus-Index)
26. MS Kasim, CH Che Haron, JA Ghani, **R Izamshah**, M Akmal, MA Ali, M Hadzley, MS Salleh (2018), "Investigation of tangential force on ball nose rake face during high-speed milling of Inconel 718", Journal Advances in Materials and Processing Technologies, Vol. 4, No. 3, pp. 378-384.
27. HN Ganesan, MS Kasim, **R Izamshah**, TJS Anand, NH Harun, SA Sundi (2018), "Simulation of Cutting Force During High Speed End Milling of Inconel 718", Journal of Advanced Manufacturing Technology (JAMT), Vol. 12, Issue 1, No. 1, pp. 383-392 (Scopus-Index)
28. HN Ganesan, MS Kasim, **R Izamshah**, TJS Anand, et al. (2018), "Cooling Effect Efficiency Prediction of Aluminum Dimples Block using DOE Technique", International Journal of Engineering & Technology (IJET), Vol. 7, Issue 4:30, pp. 152-155 (Scopus-Index)
29. HA Bakar, N Fahmi, F Mokhtar, N Tamin, U Azlan, AA Adam, **R Izamshah**, S Kasim, "Fabrication and Machining Performance of Powder Compacted Alumina Based Cutting Tool", MATEC Web of Conferences 150, 04009 (2018), pp. 1-5
30. PJ Liew, MR Yahaya, MS Salleh, **R Izamshah**, J Wang, (2018), "Experimental Investigation of Drilling Process Using Nanofluid As Coolant", Journal of Advanced Manufacturing Technology (JAMT), Vol. 12, No. 1(3), pp. 491-500 (Scopus-Index)

31. PJ Liew, MHA Syahida, S Ainusyafiqah, SM Amri, **R. Izamshah**, (2018), "Investigation of Effects of Carbon Nanofiber Nanofluid in Drilling of AISI 304 Stainless Steel", Journal of Advanced Manufacturing Technology (JAMT), Vol. 12, No. 1(2), pp. 491-500 (Scopus-Index)
32. AB Hadzley, WM Azahar, AA Anis, **R Izamshah**, M Amran, S Kasim, S Noorazizi (2018), "Development of Surface Roughness Prediction Model using Response Surface Methodology for End Milling of HTCS-150", Journal of Advanced Manufacturing Technology (JAMT), Vol. 12, Issue 1, No. 1, pp. 467-476 (Scopus-Index)
33. NH Harun, MS Kasim, MZZ Abidin, **R Izamshah**, H Attan, HN Ganesan (2018), "A Study on Surface Roughness During Fused Deposition Modelling: A Review", Journal of Advanced Manufacturing Technology (JAMT), Vol. 12, Issue 1, No. 1, pp. 25-36 (Scopus-Index)
34. MN Abd Rahman, B Medjahed, E Orady, MR Muhamad, **R Abdullah**, ASM Jaya (2018), "A Review of Cloud Manufacturing: Issues and Opportunities", Journal of Advanced Manufacturing Technology (JAMT), Vol. 12, Issue 1, No. 1 (In-Press) (Scopus-Index)
35. N Mohamad, AA Latiff, ME Manaf, **R Izamshah**, MS Kasim, M Mazlan, JA Razak, MA Azam (2018), "Wear characteristics of recycled carbon fibre-filled polypropylene composites via acidic surface treatment", World Review of Science, Technology and Sustainable Development, Vol. 14, No. 2-3, pp. 165-179 (Scopus-Index)
36. N Mohamad, KI Karim, M Mazliah, HE Ab Maulod, J Abd Razak, MA Azam, MS Kasim, **R Izamshah** (2018), "Fatigue and Mechanical Properties of Graphene Nanoplatelets Reinforced Nr/Epdm Nanocomposites", Journal of Physics: Conference Series, Vol. 1082, Issue 1, pp. 012050 (Scopus-Index)
37. MS Kasim, CHC Haron, JA Ghani, M Zaimi, **R Izamshah**, TJS Anand, HA Bakar, SB Mohamed (2018), "Surface texture characterization and chip morphology in ball nose end milling process of Inconel 718 for turbine blades", Proceedings of Asia International Conference on Tribology 2018, pp. 1-2
38. MSA Hafiz, WNF Mohamad, MS Kasim, NSM Zainurin, M Akmal, **R Izamshah**, SB Mohamed (2018), "Machinability of Inconel 718 during face mill", Proceedings of Asia International Conference on Tribology 2018, pp. 369-370
39. KI Karim, N Mohamad, JA Razak, HE Ab Maulod, **R Izamshah** (2018), "Swelling effects of NR/EPDM filled graphene nanoplatelets (GNPs) in different type of service oils for engine mounting", Proceedings of Mechanical Engineering Research Day 2018, pp. 243-245
40. A Ishak, E Mohamad, L Sukarma, MS Salleh, MR Salleh, NA Mohamad, **RIR Abdullah**, MAM Ali (2018), "Cleaner Production Implementation In An E-Waste Recovery Plant By Using The Value Stream Mapping", Journal of Advanced Manufacturing Technology (JAMT), Vol. 12, Issue 1, No. 2, pp. 55-68 (Scopus-Index)
41. MAM Nawi, Y Kidoguchi, **R Izamshah**, MS Kasim, CY Khor, et.al, (2018), "Observation on dynamic behavior of droplets evaporation after the end-of-injection of diesel spray", AIP Conference Proceedings, Vol.2030, Issue 1, pp. 020009
42. Sivaraos, K Umesh, MS Salleh, D Sivakumar, **R Izamshah**, MM Ali, (2018), "Mathematical Modelling and Conceptual Design of Novel Automatic Tyre Inflating System", Jurnal Teknologi, Vol. 80, Issue 6, pp. 123-131

2017

43. **R Izamshah**, B Ikram, M Sanusi, MS Kasim, (2017), "Comparative study of tool wear in milling titanium alloy (Ti-6Al-4V) using PVD and CVD coated cutting tool", Industrial Lubrication and Tribology, Vol. 69 Iss. 3, pp. 363-370 (ISI-Index)
44. **R Izamshah**, BI Redzuwan, MSA Aziz, MS Kasim, M Hadzley, (2017), "Experimental Study of Milling Titanium Alloy (Ti-6Al-4V) for Defence Application", Journal of Fundamental and Applied Sciences, Vol. 9, No. 3S, pp. 245-256. (ISI-Index)
45. **R Izamshah**, M Akmal, MS Kasim, MA Ali, (2017), "Emerging Hybrid Wire Electro Discharge Turning for Micro Parts Fabrication in The Defence Technological Area: A Feasibility Study", Journal of Fundamental and Applied Sciences, Vol. 9, No. 3S, pp. 176-188. (ISI-Index)
46. **R Izamshah**, MS Noorazizi, MS Kasim, (2017), "Effect of Drill Geometry Parameter on Surface Roughness and Hole Morphology in Surgical Bone Drilling", International Journal of Applied Engineering Research (IJAER), Vol. 12 Iss. 6 (SCOPUS-index)
47. **R Izamshah**, M Akmal, MS Kasim, (2017), "Improvement of The Wire Compensation Configuration Model for Improving Part Accuracy in Cylindrical Wire Electrical Discharge Turning", International Journal of Manufacturing Technology and Management (IJMTM), Vol. 31 Iss. 1 (In-press) (SCOPUS-index)

48. MS Noorazizi, **R Izamshah**, MS Kasim, CH Che Haron, (2017)," Evaluation of Hole Performance and Force Magnitude on Drilling Parameter for Orthopaedic Surgical Bone Drilling", Journal of Mechanical Engineering, Vol. SI, No. 2 (In-press) (SCOPUS-index)
49. R Azlan, **R Izamshah**, M Hadzley, MS Kasim, M Arfauz, M Akmal, (2017), "Investigation on Improvement of Surface Roughness Using Rotary Ultrasonic Assisted Machining Technique for Hardened Steel Material" Journal of Mechanical Engineering, Vol. SI, No. 2 (In-press) (SCOPUS-index)
50. MS Noorazizi, **R Izamshah**, MS Kasim, (2017), "Effects of Drill Geometry and Penetration Angle on Temperature and Holes Surfaces for Cortical Bovine Bone: An in Vitro Study, Procedia Engineering 184, 70-77.
51. S Azwan, M Razali, MS Kasim and **R. Izamshah** (2017), "Tool Wear Analysis on Five-Axis Flank Milling for Curved Shape Part – Full Flute and Ground Shank End Mill", MATEC Web of Conferences 97, 01091
52. S Azwan, J Syafik, H Attan and **R. Izamshah** (2017), "An Investigation on The Surface Finish on Sculptured Surface Utilizing Reversed Engineering Data of Crank Case Cover", MATEC Web of Conferences 97, 01062
53. S Azwan, J Syafik, M Razly and **R. Izamshah**, (2017), "The Effect of Surface Finish on Sculptured Shape Utilizing Scanned Data – Reversed Engineering (CATIA V5 & DELCAM)", MATEC Web of Conferences 97, 01112
54. CH Chan, MS Kasim, **R Izamshah**, HA Bakar, SA Sundi, KA Zakaria, CHC Haron, JA Ghani, MSA Hafiz, (2017)," Analysis of Face Milling Performance on Inconel 718 using FEM and Historical Data of RSM", IOP Conference Series: Materials Science and Engineering, Vol. 270, No. 1, 012038
55. MSA Hafiz, MHA Kawaz, WNF Mohamad, MS Kasim, **R Izamshah**, JB Saedon, SB Mohamed, (2017), "A Review on Feasibility Study of Ultrasonic Assisted Machining on Aircraft Component Manufacturing", IOP Conference Series: Materials Science and Engineering, Vol. 270, No. 1, 012034
56. SA Sundi, MS Jumali, MRM Razly, MFA Rob, **R Izamshah**, MS Kasim, (2017), "The Effect of Machining Strategies on Dimensional Accuracy in Flank Milling for Five-Axis Slanted Thin-Walled-Aero Structural Component", Proceedings of Mechanical Engineering Research Day 2017, pp. 126-127.
57. R Azlan, **R Izamshah**, M Hadzley, MS Kasim, M Arfauz, M Akmal, (2017), "Improvement of Cutting Force using Ultrasonic Vibration for Machining Mold and Die Materials", Proceedings of Mechanical Engineering Research Day 2017, pp. 465-467.
58. MS Noorazizi, **R Izamshah**, M Hadzley, MS Kassim, (2017), "Thermal Variation at Different Penetration Angle for Orthopaedic Surgical Bone Drilling", Proceedings of Innovative Research and Industrial Dialogue, pp. 121-122.
59. MSA Aziz, BI Redzuwan, M Zaimi, R Izamshah, et al. (2017), "Mechanical Properties and Cutting Performance of Electroless Ternary Ni-Wp Coated Cutting Tools", Jurnal Teknologi, Vol. 79, Issue 5-2, pp. 101-104.

2016

60. **R Izamshah**, M Akmal, Ms Kasim, SA Sundi, M Hadzley A Statistical Comparison In Selection of Wire-Edm Process Parameters For Machining Titanium Alloy, , Journal of Advanced Manufacturing Technology (JAMT) 10 (2), 2016.
61. MAM Amran, N Idayu, KM Faizal, M Sanusi, **R Izamshah**, M Shahir, Part weight verification between simulation and experiment of plastic part in injection moulding process, IOP Conference Series: Materials Science and Engineering 160 (1), 2016.
62. M Akmal, **R Izamshah**, MS Kasim, M Hadzley, M Amran, A Ramli, Development of a rotary axis mechanism for wire EDM turning (WEDT), Proceedings of Mechanical Engineering Research Day 2016, 62-63
63. ABM Hadzley, WM Azahar, **R Izamshah**, M Shahir, AM Amran, Response Surface Methodology Approach on Effect of Cutting Parameter on Tool Wear during End Milling of High Thermal Conductivity Steel-150 (HTCS-150), IOP Conference Series: Materials Science and Engineering 114 (1), 01 2015
64. **R Izamshah**, MS Noorazizi, MS Kasim, CHC Haron, Influence of Orthopaedic Drilling Parameters on Surface Roughness and Cutting Force of Bone Drilling Process, 6th International Conference on Electronics, Mechanics, Culture and Medicine (EMCM 2015)
65. MS Kasim, CH Che Haron, JA Ghani, MA Hadi, **R Izamshah**, TJS Anand, Cost evaluation on performance of a PVD coated cutting tool during end-milling of Inconel 718 under MQL conditions, Transactions of the IMF 94 (4), 175-181, 2016
66. R Azlan, **R Izamshah**, M Hadzley, MS Kasim, M Arfauz, M Akmal, Experimental investigation of surface roughness using ultrasonic assisted machining of hardened steel, Proceedings of Mechanical Engineering Research Day 2016, 212-213
67. **R. Izamshah**, B.I. Redzuwan, M.S. A. Aziz, M.S. Kasim, M. Hadzley, Experimental Study of Milling Titanium Alloy

(Ti6Al4V) for Defense Application, 3rd International Conference on Defence & Security Technology (DSTC2016)

68. **R. Izamshah**, M. Akmal, M.S. Kasim, M. Amran, M. Hadzley, A. Ramli, Feasibility Study of Wire EDM Turning in Fabrication of Miniaturized Component in Defense Technological Area, 3rd International Conference on Defence & Security Technology (DSTC2016)
69. M.S Noorazizi, **R Izamshah**, MS Kasim, Optimization of Drill Geometry Design to Minimize Thermal Necrosis in Surgical Bone Drilling, International Conference on Design & Concurrent Engineering (iDECON2016)
70. Azlan R, **R Izamshah**, MS Kasim, Rotary Ultrasonic Assisted Machining of Mould and Die Material, International Conference on Design & Concurrent Engineering (iDECON2016)
71. Nurul H, MS Kasim, H Attan, H Boejang, **R Izamshah**, Hema N, Study on Dental Restoration Using Time Compression Approaches, International Conference on Advanced Processes & System in Manufacturing (APSIM2016)
72. A Ramli, **R Izamshah**, M. Hadzley, M.S. Kasim, M.Arfauz, M.Akmal, Surface Evaluation Of Rotary Ultrasonic Assisted Machining Technique For Hardened Steel Material, International Conference on Advanced Processes & System in Manufacturing (APSIM2016)
73. B.I. Redzuwan, M.S. A. Aziz, M.F. Ayub, M.S. Kasim, **R. Izamshah**, M. Amran, Comparative Study of Tool Life in Milling Titanium Alloy (Ti-6Al-4V) using PVD and CVD Coated Cutting Tool, International Conference on Advanced Processes & System in Manufacturing (APSIM2016)
74. N Yaakob, Nurul H, Hema N, **R Izamshah**, J. A. Ghani, C H C Haron, MS Kasim, Influences of grinding parameters on surface of Inconel 718, International Conference on Advanced Processes & System in Manufacturing (APSIM2016)
75. M. Akmal, **R. Izamshah**, M.S. Kasim, M. Hadzley, M. Amran, A. Ramli, Configuration of Wire Positioning to Minimize Parts Error in Wire Electrical Discharge Turning (WEDT), International Conference on Advanced Processes & System in Manufacturing (APSIM2016)
76. M.S Noorazizi, **R. Izamshah**, M.S Kassim, Che Hassan Che Haron, Effects of Drilling Parameter on Hole Surface for Orthopaedic Surgical Bone Drilling, Int. Conf. on Advanced Processes & System in Manufacturing (APSIM2016)

2015

77. **R Izamshah**, A Yu Long, M Amran, MS Kasim, M Hadzley, S Subramonian, Optimisation of Machining Parameters for Milling Polyetheretherketones (PEEK) Biomaterial, Applied Mechanics and Materials Vol.699, pp 198-203, 2015
78. M Amran, S Salmah, A Faiz, **R Izamshah**, M Hadzley, B Manshoor, M Shahir, M Amri, Effect of Injection Moulding Machine Parameters on the Warpage by Applying Taguchi Method, Applied Mechanics and Materials Vol.699, pp 20-25, 2015
79. M Amran, **R Izamshah**, M Hadzley, M Shahir, M Amri, M Sanusi, H Hilmi, The Effect of Binder on Mechanical Properties of Kenaf Fibre/Polypropylene Composites Using Full Factorial Method, Applied Mechanics and Materials Vol.695, pp 709-712, 2015
80. MA Ali, L Suraya, J Sidek, N Atiqah, S Hussein, N Izan, MR Muhamad, B Manshoor, M Amri, **R Izamshah**, M Hadzley The Effect of EDM Die-Sinking Parameters on Material Characteristic for Aluminum Composite, Applied Mechanics and Materials Vol. 699, pp 26-31, 2015
81. **R Izamshah**, N Husna, M Hadzley, M Amran, MS Kasim, Determination on the Effect of Cutter Geometrical Feature for Machining Polyetheretherketone (PEEK) Using Taguchi Methods, Applied Mechanics and Materials Vol.699, pp 192-197, 2015
82. Mohd Hadzley, Abu Bakar, Nurul Fatin, Mohamad Raffi, **Raja Izamshah**, Ahmad Siti Sarah, Mohd Shahir Kasim, MA Ali, Mohd Amri Sulaiman, Effects of Helix Angle on Cutting Performance for Machining Thin-Wall Aerospace Monolithic Component, Applied Mechanics and Materials Vol.699, pp 3-8, 2015
83. AB Mohd Hadzley, A Siti Sarah, **R Izamshah**, MR Nurul Fatin, The Study of Tool Wear Performance on Pocket Milling Strategy, Applied Mechanics and Materials Vol.699, pp 64-69, 2015
84. Mohd Shahir Kasim, CH Che Haron, JA Ghani, N Mohamad, **R Izamshah**, M Minhat, SB Mohamed, JB Saedon, NH Saad, Prediction of Cutting Force in End Milling of Inconel 718, The Journal of Engineering and Technology (JET) Vol. 5, pp 67-70, 2015
85. SA Hussein, ASM Tahir, **R Izamshah**, Generated forces and heat during the critical stages of friction stir welding and processing, Journal of Mechanical Science and Technology 29 (10), pp 4319-4328, 2015

86. M Hadzley, A Bakar, MH Samsudin, MN Zamri, **R Izamshah**, Development of Three-Axis Mini Milling Machine for Small Scale Production, Applied Mechanics and Materials 761, 273-276, 2015
87. M Hadzley, A Bakar, **R Izamshah**, M Amran, W Farhan, M Azran, Cutting Technology Innovation in Production of Porous Cellular Mat, Applied Mechanics and Materials 761, 641-645, 2015
88. MA Ali, S Salmah, Z Abdullah, LP Jun, MR Muhamad, **R Izamshah**, Effect of Different Coolant Medium on Warpage Deflection Using Moldflow Insight Analysis, Applied Mechanics and Materials 761, 42-46, 2015
89. M Hadzley, A Bakar, **R Izamshah**, M Amran, W Azahar, Development of Jig for Sintering Hollow Tube Mat, Applied Mechanics and Materials 761, 631-635, 2015
90. An Experimental Study of Wear Mechanism on High Speed Machining of FC300 Gray Cast Iron Using TiAlN Coated Carbide Cutting Tool, MR Nurul Fatin, AB Mohd Hadzley, **R Izamshah**, MA Amran, Applied Mechanics and Materials 761, 257-261, 2015

2014

91. **R Izamshah**, JPT Mo, M Arfauz, S Ding, MA Azam, MS Kasim, Effect of Parameter Condition on Surface Roughness for Machining AISI D2 Hardened Tool Steel, Journal of Advanced Manufacturing Technology (JAMT) Vol 8 (1), pp 47-56, 2014. (Scopus Index)
92. **R. Izamshah**, N. Husna, M. Hadzley, M. Amran, M. Shahir and M. Amri Effects of Cutter Geometrical Features on Machining Polyetheretherketone (PEEK) Engineering Plastic, Journal of Mechanical Engineering and Sciences (JMES), Volume 6, pp. 863-872, June 2014. ISSN (Print): 2289-4659; e-ISSN: 2231-8380. (Scopus Index)
93. **R. Izamshah**, M Zulhairi, MS Kasim, M Hadzley, M Amran, M Amri, Cutter Path Strategies for Shoulder Milling of Thin Deflecting Walls, Advanced Materials Research, 903, pp 175-180, 2014. (Scopus Index)
94. M Amran, S Salmah, M Zaki, **R Izamshah**, M Hadzley, Sivarao, MS Kasim, M Amri, The Effect of Pressure on Warpage of Dumbbell Plastic Part in Injection Moulding Machine, Advanced Materials Research, 903, pp 61-66, 2014. (Scopus Index)
95. MA Ali, L Suraya, HIK Nor, NIS Hussein, MR Muhamad, B Manshoor, MA Lajis, **R Izamshah**, M Hadzley, RS Taufik, The Effect of EDM Die-Sinking Parameters on Material Characteristic for Aluminium Composite Using Tungsten Copper Electrode, Applied Mechanics and Materials, 465, pp 1214-1218, 2014 (Scopus Index)
96. M Hadzley, N Fatin, **R Izamshah**, NIS Hussein, A S Sarah, Sivarao, Surface Integrity of a High Speed Milling FC300 Gray Cast Iron, Applied Mechanics and Materials, 465, pp 642-646, 2014 (Scopus Index)
97. MS Kasim, CH Che Haron, JA Ghani, MA Azam, **R Izamshah**, MA Md Ali, MS A Aziz, The influence of cutting parameter on heat generation in high-speed milling Inconel 718 under MQL condition, Journal of Scientific & Industrial Research, 73, pp 62-65, 2014 (Scopus Index)
98. M Hadzley, , A S Sarah, **R Izamshah**, M Amran, MS Kasim, M Amri, N Fatin Evaluation of the Surface Integrity when Machining LM6 Aluminum Metal Matrix Composites Using Coated and Uncoated Carbide Cutting Tools, Applied Mechanics and Materials, 465, pp 1049-1053, 2014
99. **R. Izamshah**, Z. Zuraidah, MS Kasim, M. Hadzley and M. Amran, Multi-Objectives Optimization of Cutting Parameters in Machining Cellulose Based Hybrid Composites, Proceedings of International Design and Concurrent Conference, 2014
100. **R. Izamshah**, A. Yu Lung, E. Mohamad, M. A. Azam, M. Amri, PJ Liew and M. Sanusi Optimization of Milling Parameter for Untreated and Heat Treated Polyetheretherketones (PEEK) Biomaterials, Proceedings of International Design and Concurrent Conference, 2014
101. **R. Izamshah**, N. Husna, M. Hadzley, M. Amran, MS. Kasim and Sivarao Optimization of Cutter Geometry Features to Minimise Cutting Force on Machining Polyetheretherketone (PEEK) Engineering Plastic, Proceedings of International Design and Concurrent Conference, 2014
102. M.S. Kasim, C.H. Che Haron, J.A. Ghani, E. Mohamad, **R. Izamshah**, M.A. Md. Ali, J.B Saedon Multi-objective optimization using Historical Data of Response Surface Methodology for high-speed machining of Inconel 718, Proceedings of AEROTECH, 2014
103. **R. Izamshah**, M. Akmal, M. Amran, M. Hadzley, MS Kasim, M.A. Azam and M.A. Sulaiman, Finite Element Model of Trimming CFRP Aerospace Composite, World Virtual Conference on Advanced Research in Materials and Engineering Applications 2014
104. M.J. Raguvanan, Sivarao, M.A. Amran, T.J.S. Anand, Qumrul, **R. Izamshah** and A.S. Dahlan, Way Forward To Halt Pressure Loss In Automotive Tyres, Proceedings of International Design and Concurrent Conference, 2014

- 105.A.B. Mohd Hadzley, **R.Izamshah**, M.A. Amran, M. N. Azran, W. M. Farhan, W. M. Azahar and Wijeyseketera D. C., Cutting Technology Innovation in Production of Porous Cellular Mat, Proceedings of International Design and Concurrent Conference, 2014
- 106.A.B. Mohd Hadzley, **R.Izamshah**, M.A. Amran, and W. M. Azahar, Development of Jig for Sintering Hollow Tube Mat, Proceedings of International Design and Concurrent Conference, 2014
- 107.A.B. Mohd Hadzley, M. Hafiz, M. N. Zamri, **R.Izamshah**, M. S. Kasim and A. Abdullah, Development of 3 Axis Mini Milling Machine for Small Scale Production, Proceedings of International Design and Concurrent Conference, 2014
- 108.A. Siti Sarah, A.B. Mohd Hadzley, **R.Izamshah**, A. Abdullah, Tool Life and Wear Mechanism when Machining LM6 Aluminium with Coated and Uncoated High Speed Steel, Proceedings of International Design and Concurrent Conference, 2014
- 109.N. Fatin, A.B. Mohd Hadzley, **R.Izamshah** and M.A. Amran, An Experimental Study of Wear Mechanism on High Speed Machining of FC300 Gray Cast Iron Using TiAlN Coated Carbide Cutting Tool, Proceedings of International Design and Concurrent Conference, 2014
- 110.S. Laily, M.A. Amran, N. I. S. Hussein, M. R. Muhamad, M. B. Manshoor, M. A. Lajis, **R.Izamshah**, A.B. Mohd Hadzley and Taufik, The Effect of EDM Die-sinking Parameters on Material Characteristics for Aluminum Composite using Copper Electrode, Proceedings of International Design and Concurrent Conference, 2014
- 111.M.A. Amran, S. Salmah, Z. Abdullah, P. J. Liew, M. R. Muhamad, **R.Izamshah**, A.B. Mohd Hadzley, A. Abdullah and Z. Marjom, Effect of Different Coolant Medium in Injection Mould on Warpage deflection using Moldflow Insight Analysis, Proceedings of International Design and Concurrent Conference, 2014
- 112.M.A. Amran, S. Salmah, **R.Izamshah**, M. S. Kasim, M. A. Sulaiman, E. Mohamad, M. Sanusi, Sivarao, Z. Marjom, U. Al-Amani, M. K. Musa, Z. Abdullah, Warpage Analysis of Different Number Cooling Channels for Dumbbell Plastic Part in Injection Moulding, Proceedings of International Design and Concurrent Conference, 2014

2013

- 113.**R. Izamshah**, M. A. Azam, M. Hadzley, M.A. Md Ali, M.S. Kasim, M.S. Abdul Aziz, Study of surface roughness on milling unfilled-polyetheretherketones engineering plastics, Procedia Engineering Vol. 68, pp 654-660, 2013.
- 114.M.A. Amran, S. Salmah, N.I.S. Hussein, **R. Izamshah**, M. Hadzley, S. Subramonian, M.S. Kasim, M.A. Sulaiman, Effects of machine parameters on surface roughness using response surface method in drilling process. , Procedia Engineering Vol. 68, pp 24-29, 2013.
- 115.M. A. Azam, **R. A. Izamshah**, N. Mohamad, K. Isomura, T. Shimoda, Nanostructuring Ultra-thin Co Films to Active Catalyst Particles for Vertically Aligned Single-Walled CNT Growth. Procedia Engineering Vol. 68, 566-571, 2013.
- 116.Sivarao, T.C. Yap, Qumrul, M.A. Amran, T.J.S Anand, **R. Izamshah**, A.A.Aziz, Friction Performance Analysis of Waste Tire Rubber Powder Reinforced Polypropylene Using Pin-On-Disk Tribometer, Procedia Engineering Vol. 68, 743-749, 2013.
- 117.**R. Izamshah**, Yuhazri M Y, M Hadzley, M Amran, Sivarao Effects of End Mill Helix Angle on Accuracy for Machining Thin-Rib Aerospace Component, 2013, Applied Mechanics and Materials, 315, 773-777. Scopus
- 118.Mohd Yuhazri Yaakob, Kamarul A M, Haeryip Sihombing, Yahaya S H, **Izamshah R**, An Experimental Study of Different Thermal Boxes Heated by Solar Thermal Radiation for Hot Water System at Night, 2013, Applied Mechanics and Materials, 315, 788-792. Scopus
- 119.Mohd Hadzley Abu Bakar, **Raja Izamshah Raja Abdullah**, Mohd Amran Md. Ali, Kamaruzaman Jusoff, Sivarao, Hambali Ariff, Nur Izan Syahriah Hussein, Wan Hasrulnizzam Wan Mahmood, Abu Abdullah, Mariana Yusoff and Meysam Shamshiri, Machining Performance of Ti-6Al-4V Titanium Alloy Assisted by High Pressure Waterjet, World Applied Sciences Journal 21(Special Issue of Engineering and Technology): 98-104, 2013. ISSN 1818-4952
- 120.AB Hadzley, **R Izamshah**, A Siti Sarah, M Nurul Fatin, Finite Element Model of Machining with High Pressure Coolant for Ti-6Al-4V Alloy, Procedia Engineering Vol 53 2013. pp 324-631
- 121.MA Ali, M Samsul, NIS Hussein, M Rizal, **R Izamshah**, M Hadzley, MS Kasim, MA Sulaiman, S Sivarao, The Effect of Edm Die-sinking Parameters on Material Removal Rate of Beryllium Copper Using Full Factorial Method, Middle-East Journal of Scientific Research, 16 (1), pp 44-50, 2013
- 122.**R. Izamshah**, M. A. Azam, M. Hadzley, M.A. Md Ali, M.S. Kasim, M.S. Abdul Aziz, Study of surface roughness on milling unfilled-polyetheretherketones engineering plastics, The Malaysian International Tribology Conference 2013, MITC 2013
- 123.M.A. Amran, S. Salmah, N.I.S. Hussein, **R. Izamshah**, M. Hadzley, S. Subramonian, M.S. Kasim, M.A. Sulaiman,

Effects of machine parameters on surface roughness using response surface method in drilling process. , The Malaysian International Tribology Conference 2013, MITC 2013

124. M. A. Azam, **R. A. Izamshah**, N. Mohamad, K. Isomura, T. Shimoda, Nanostructuring Ultra-thin Co Films to Active Catalyst Particles for Vertically Aligned Single-Walled CNT Growth. The Malaysian International Tribology Conference 2013, MITC 2013
125. Sivarao, T.C. Yap, Qumrul, M.A. Amran, T.J.S Anand, **R. Izamshah**, A.A.Aziz, Friction Performance Analysis of Waste Tire Rubber Powder Reinforced Polypropylene Using Pin-On-Disk Tribometer, The Malaysian International Tribology Conference 2013, MITC 2013
126. **R. Izamshah**, A. Yu Lung, E. Mohamad, M. A. Azam, M. Amri, PJ Liew and M. Sanusi Optimization of Machining Parameter for Milling Polyetheretherketones (PEEK) Biomaterials, 2013 3rd International Conference and Exhibition on Sustainable Energy and Advanced Material (ICE-SEAM 2013), 30-31 Oct 2013, Melaka, Malaysia
127. **R. Izamshah**, N. Husna, M. Hadzley, M. Amran, MS. Kasim and S. Amri Determination on the Effect of Cutter Geometrical Features for Machining Polyetheretherketones (PEEK) Using Taguchi Methods, 2013 3rd International Conference and Exhibition on Sustainable Energy and Advanced Material (ICE-SEAM 2013), 30-31 Oct 2013, Melaka, Malaysia
128. **R. Izamshah**, N. Husna, M. Hadzley, M. Amran, M. Shahir and M. Amri, Effects of Cutter Geometrical Features on Machining Polyetheretherketone (PEEK) Engineering Plastic, 2013 International Conference on Mechanical Engineering Research (ICMER 2013), 1-3 July 2013, Gambang, Pahang

2012

129. **R. Izamshah**, John P.T Mo, Songlin Ding, Hybrid Deflection Prediction On Machining Thin-Wall Monolithic Aerospace Components, Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture Vol. 226 Issue 4 pp. 592-605, 2012. IF=0.770 – (Scopus/ISI)
130. S.R. Subramonian, A.Z. Khalim, Hussein, N. I. S, **R. Izamshah**, M. Amran and M. Hadzley, "Transforming Linear Laser Cutting machine Into Laser Lathing - An Empirical Investigation & Evaluation of Roundness Quality ", Journal of Current Engineering Research (JCER), 2(2) pp. 98-104, 2012.
131. **R. Izamshah**, Yuhazri M Y, M Hadzley, M Amran, Sivarao Effects of End Mill Helix Angle on Accuracy for Machining Thin-Rib Aerospace Component, ICME2012-International Conference on Mechanical and Manufacturing Engineering 20 & 21 November 2012 Batu Pahat, Johor, Malaysia
132. Mohd Yuhazri Yaakob, Kamarul A M, Haeryip Sihombing, Yahaya S H, **Izamshah R**, An Experimental Study of Different Thermal Boxes Heated by Solar Thermal Radiation for Hot Water System at Night, ICME2012-International Conference on Mechanical and Manufacturing Engineering, 20 & 21 Nov 2012, Johor, Malaysia
133. Yuhazri Yaakob, Kamarul Amir Mohamed, Rahimah Abdul Hamid, Haeryip Sihombing Pieter, Saifudin Hafiz Yahaya and **Raja Izamshah**; Experimental Study on Effect of Reflector Bed Designs Heated by Direct Solar Radiation for Hot Water Storage System, Proceedings of IDECON 2012, page 117-121
134. Mohd Hadzley Abu Bakar, **Raja Izamshah Raja Abdullah**, Nur Izan Syahriah Hussein and Mohd Fairuz Dimin, Simulation of Chip Formation for Machining Ti-6Al-4V Titanium Alloys, Proceedings of IDECON 2012, page 239-242
135. **R. Izamshah**, M Hadzley, Sivarao, M Amran, M. Razali; Effects of Cutter Geometrical Feature on Part Deflection for Machining Thin-Wall Component, GCSM2012- Global Conference on Sustainable Manufacturing 1 & 2 November 2012 Istanbul, Turkey
136. **R. Izamshah**, Hadzley, M., Amran, M. and Sivarao, S. Effects of End Mill Clearance Angle on Surface Error for Machining Low Rigidity Aerospace Structure Component, Proceedings of IDECON 2012, page 308-312.
137. Amran, M., **Izamshah, R.**, Hadzley, M., Sivarao, S., Syahriah, N.I., Nobukawa, S. and Yamaguchi, M. Mechanical Properties of Polypropylene Composites Containing Polymer Fibers, Proceedings of IDECON 2012, page 239-242
138. Mohd Hadzley Abu Bakar, **R. Izamshah**, M., Amran, Simulation of Chip Formation for Machining Ti-6Al-4V Titanium Alloys, Proceeding of Malaysian Technical Universities on Engineering and Technology (MUCET 2012)",
139. M. Amran, S. Salmah, M. Zaki, **R. Izamshah**, M. Hadzley, S. Sivarao and N.I. Syahriah; Optimization Parameters of Injection Moulding Machine for Reducing Warpage of Dog Bone Plastic Part, PPS-28, Polymer Processing Society 28th Annual Meeting, December 11-15, 2012, Pattaya (Thailand)

2011

140. **R. Izamshah R.A**, John P.T Mo, Songlin D., Finite Element Analysis of Machining Thin-Wall Parts, Journal Key Engineering Materials Vol. 458 (2011) pp 283-288. doi:10.4028/www.scientific.net/KEM.458.283 IF=0.224 (2010) Scopus

141. Songlin D., **R. Izamshah R.A**, John P.T Mo, Yongwei Zhu, Chatter Detection in High Speed Machining of Titanium Alloys, *Journal Key Engineering Materials* Vol. 458 (2011) pp 289-294. doi:10.4028/www.scientific.net/KEM.458.289 IF=0.224 (2010) Scopus
142. Songlin D., **R. Izamshah R.A**, John P.T Mo, Quansheng Liu, Online Tool Life Prediction in the Machining of Titanium Alloys, *Journal Key Engineering Materials* Vol. 458 (2011) pp 355-361. doi:10.4028/www.scientific.net/KEM.458.355 IF=0.224 (2010) Scopus
143. Songlin D., **R. Izamshah R.A**, John P.T Mo, Yongwei Zhu, The Development of an Economic Model for the Milling of Titanium Alloys, *Journal Key Engineering Materials* Vol. 458 (2011) pp 362-367. doi:10.4028/www.scientific.net/KEM.458.362 IF=0.224 (2010) Scopus
144. **R. Izamshah R.A**, John P.T Mo, Songlin D., Deflection Prediction On Machining Thin-Wall Monolithic Aerospace Components, *Journal of Mechanical Engineering and Technology* Vol. 3 (2011).
145. **R. Izamshah R.A**, John P.T Mo, Songlin D., Task Automation for Modelling Deflection Prediction on Machining Thin-Wall Part with Catia V5, *Proceedings 2011 International Conference on Mechanical, Industrial and Manufacturing Engineering*, 15-16 January 2011, Melbourne, Australia.
146. **R. Izamshah R.A**, John P.T Mo, Songlin D., Task Automation for Modelling Deflection Prediction on Machining Thin-Wall Part with Catia V5, *Advances in Mechanical Engineering*, Vol. 1, no. 1, 2011. pp 8-14. Issn:2160-0619

2007 - 2010

147. John P.T Mo, **R. Izamshah R.A**, Songlin D., Challenges in Optimising the Machining Process of Titanium Alloys for JSF Manufacturing, *Proceedings Australian JSF Advanced Technology and Innovation Conference, Department of Defence, Australian Government, Australia* 3rd - 4th May 2010.
148. John P.T Mo, **R. Izamshah R.A**, Songlin D., Challenges in Optimising the Machining Process of Titanium Alloys, *DMTC and DIIC Workshop on Manufacturing Innovation in Titanium Processing*, 1st June 2010.
149. Hadzley M.A.B., **Raja Izamshah R.A.**, Jabir M.S., Wear Performance of Flat End-Mill Cutter During Machining of Copper Based Metal, *Journal of Advanced Manufacturing Technology*, Vol. 2 (2008) pp 11-18. ISSN 1985-3157
150. M. Mohd Razali, S. Nor Mohamad, P. J. Liew, A.B. Mohd. Hadzley, **R. Izamshah**, Analysis of EDM Parameters on Material Removal Rate and Electrode Wear of Copper Beryllium Alloy Using Copper Electrode, *International Conference on Advances in Mechanical Engineering 2008*.
151. M.A. Amran, M. Hadzley, S. Amri, **R. Izamshah**, Optimization of Gate, Runner and Sprue in Two-Plate Family Plastic Injection Moulding, *International Conference On Advancement of Materials and Nanotechnology 2007*.
152. M.A.M Amran, **R. Izamshah**, S.M. Amri, Study of The Machining Process on Acrylic Material of Mould Base in Plastic Injection Mould, *International Conference on Engineering Technology 2007*.
153. M.A. Amran, **R. Izamshah**, M. Hadzley, S. Amri, A. Hassan, K. Shahir, Application of Two Dimensional Engineering Design In Plastic Injection Mould, *Conference on Applications and Design in Mechanical Engineering 2007*.
154. M. Irman, **R. Izamshah**, M. Amran, M. Hadzley, M. Shukor, N. Aidil, Analysis of Performance Evaluation Between Oil Based Coolant and Biodegradable Based Coolant on Cutting Surface in Milling Operation, *International Conference on Engineering and ICT 2007*.
155. M S Kasim, S A Faizal, **R. Izamshah R. A.**, N M Farid, Hot Alignment Solution Using Spreadsheet Application, *Conference on Applications and Design in Mechanical Engineering 2007*.
156. M. Hadzley A. B., **R. Izamshah R.A.**, Sivarao S., M. Amri S., M. Amran M. A., M. Shahir K., M. Jabir, Wear Performance Of Ball Mill Cutter During Machining Of Copper Based Metal, *The National Metallurgical Conference 2006*.