

CURRICULUM VITAE

Ali Akhavan Farid
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Date of birth: 21 March 1983

Education

Doctor of Philosophy, Mechanical Engineering

Universiti Teknologi Malaysia, Skudai, Johor, 2008-2012

Master of Engineering, Mechanical Engineering- Advanced Manufacturing Engineering

Universiti Teknologi Malaysia, Skudai, Johor, 2006-2008

Bachelor of Science, Mechanical Engineering- Manufacturing & production

Islamic Azad University-Najafabad, Isfahan 2002-2006

Professional Experience

Lecturer (September 2014- Present)

Faculty of Engineering and Technology
Multimedia University-Melaka, Malaysia

Lecturer (December 2012-Agust 2014)

Faculty of Engineering, Dept. of Mechanical Engineering-Manufacturing
Azad University-Najafabad, Isfahan, Iran.

Mechanical Engineer (June 2012-August 2014)

Employer Name: Raha Pharmaceutical Company
Isfahan, Iran (<http://www.rahapharm.com/>)

Type of Business of Company: Development and production of medicines

Duties and responsibilities:

- Designing mechanisms and parts used in production line machinery
- Drafting using CAD software
- Maintenance and repairs of various production line machines
- Installing machinery for production line

Visiting Lecturer (January - May 2012)

Faculty of Mechanical Engineering,
Department of Manufacturing and Industrial Engineering,
Universiti Teknologi Malaysia, Johor, Malaysia.

Teaching Assistant (February- May 2009)

Faculty of Mechanical Engineering,
Department of Manufacturing and Industrial Engineering,
Universiti Teknologi Malaysia, Johor, Malaysia

Teaching

Postgraduate

Advanced Manufacturing Technology
Machining science and Cutting Tools

Undergraduate

Mechanical Engineering Design 1
Material Science
Manufacturing and Operations Management
Applied Static
Material Science Laboratory
Static and dynamic Laboratory
Fluid mechanics Laboratory

Research Experience

Master students

(main supervisor)

- A study on effects of EDM parameters and added powder on material removal rate and surface integrity of titanium alloy Ti-6Al-4V, 2014- present
- Effect of tool chip-breaker geometry on chip morphology and cutting forces when orthogonal cutting of AISI 1045 steel by using finite element and experimental methods, 2013-2015
- Tool life and failure modes investigation of carbide and ceramic tools when machining of Inconel 625, 2013-2015
- Prediction of surface quality of AISI 316 steel in turning operation by neural network and statistical analysis, 2012-2014
- Prediction of surface roughness of AISI 321 steel in milling by neural network and statistical analysis, 2012-2014

(Co-supervisor)

- 3D modeling of orthogonal cutting on AISI 1045, 2012-2013
- Performance evaluation of drilling CFRP/METAL stacks using carbide tools, 2012-2013.
- Effect of silicon morphology on various machinability parameters when turning Al-Si-Cu-Mg alloy, 2012-2013.

PhD thesis

- High speed drilling Al-Si alloy using carbide drills, 2008-2012

Master thesis

- Surface integrity studies of Inconel 718 during drilling operation, 2007-2008.

Research Interests

- Metal cutting operations for aerospace and automotive applications
- Finite element analysis
- Design and Analysis of experiments
- Process optimization
- CAD/CAM

Publications

Journal papers

Lotfi M, Akhavan Farid A, and Soleimanimehr H, *A New Hybrid Model Based on the Radius Ratio for Prediction of Effective Cutting Limit of Chip Breakers*. *Journal of Engineering Manufacture*, published online, 2015. (ISI, IF: 0.954)

Lotfi M, Akhavan Farid A, and Soleimanimehr H, *The effect of chip breaker geometry on chip shape, bending moment, and cutting force: FE analysis and experimental study*. *The International Journal of Advanced Manufacturing Technology*, 2015, 78(5-8), 917-925. (ISI, IF: 1.458)

Alizadeh S, Sharif S, Akhavan Farid A, Yahya MY. *Performance evaluation of carbide tools in drilling CFRP-Al stacks*, *Journal of Composite Materials*, 2014, 48(17), 2071-2084. (ISI, IF: 1.173)

Akhavan Farid A, Sharif S, Alizadeh S. *Statistical Analysis, Modeling and Optimization of Thrust Force and Surface Roughness in High Speed Drilling of Al-Si Alloy*, *Journal of Engineering Manufacture*. 2013, 227(6), 808–820. (ISI, IF: 0.954)

Marani M, Yusof NM, Akhavan Farid A, Farahany S, Davoudinejad A. *Effects of cutting condition on surface roughness when turning untreated and Sb-treated Al-11%Si alloys using PVD coated tools* *Applied Mechanics and Materials*. 2013, 315, 413-417. (Scopus)

Sharif S, Akhavan Farid A, Idris M. *Tool life prediction model of uncoated carbide tool in high speed drilling of Al-Si alloy using response surface methodology*. *International journal of surface science and engineering*. 2012, 6(1/2), 112-21. (ISI, IF: 0.448)

Akhavan Farid A, Sharif S, Idris M. *Chip morphology study in high speed drilling of Al-Si alloy*. *The International Journal of Advanced Manufacturing Technology*. 2011, 57(5), 555-64. (ISI, IF: 1.458)

Akhavan Farid A, Sharif S, Idris MH. *Surface integrity study of high-speed drilling of Al-Si alloy using HSS drill*. *Journal of Engineering Manufacture*. 2011, 225(7), 1001-7. (ISI, IF: 0.954)

Akhavan Farid A, Sharif S, Namazi H. *Effect of machining parameters and cutting edge geometry on surface integrity when drilling and hole making in Inconel 718*, *SAE International Journal of Materials and Manufacturing*, 2009, 2(1), 564-569. (Scopus)

Proceedings

Akhavan Farid A, Sharif S, Idris M, *Tool Life Modeling of Uncoated Carbide Tool in High Speed Drilling of Al-Si Alloy Using Response Surface Methodology*, AMPT 2011, July 13-16, 2011, Istanbul, Turkey.

Akhavan Farid A, Sharif S, Namazi H, *Effect of Machining Parameters and Cutting Edge Geometry on Surface Integrity when Drilling and Hole Making in Inconel 718*, *SAE World Congress & Exhibition*, April 2009, Detroit, MI, USA

Namazi H, Akhavan Farid H, *Creep Feed Grinding Forces modeling Using Artificial neural networks*; *The 4th International Student Conference at Ibaraki University*, Ibaraki, Japan, November 1-2, 2008.

Namazi H, Sharif S; Akhavan Farid A, *Optimization of Workpiece Elastic Deflection in Turning Operations Using Ant Colony System*, *Tehran International Congress on Manufacturing Engineering (TICME2007)*, December 10-13, 2007, Tehran, Iran, 1-11.

Namazi H, Sharif S, Akhavan Farid A, Heat treatment Optimization of 15-5PH Stainless Steel Using Genetic Algorithm, NATIONAL METALLURGICAL CONFERENCE 2007, (NMC2007), 26 – 27th NOVEMBER 2007, Puteri Pacific Hotel, Johor Bahru, Johor, Malaysia,16.

Peer Review Activity

International Journal of Advanced Manufacturing Technology (ISI, IF: 1.458)

Journal of Engineering Manufacture (ISI, IF: 0.954)

Journal of Machining Science and Technology (ISI, IF: 0.703)

Journal of Mechanical Engineering Science (ISI, IF: 0.560)

Language Skills

- English (fluent)
- Persian (native)
- Arabic (Intermediate)

Computer Skills

DEFORM, Inventor, Powermill, Design Expert, CATIA, AutoCad 2D&3D, ABAQUS, NASTRAN

References

- Prof. Dr. Safian Sharif
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- Prof. Dr. Noordin Mohd. Yusof
Dean of Faculty of Mechanical Engineering
Address: C24-221, FKM, UTM, 81310, Skudai, Johor, Malaysia
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Email: noordin@fkm.utm.my, noordin@utm.my
- Assoc. Prof. Dr. Mohd Hasbullah Idris
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Faculty of Mechanical Engineering
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