

Curriculum Vitae

Full Name: Dr. Mohammad Honarpisheh

Position: Assistant Professor

Date of birth: 1981

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Address: Department of Manufacturing Engineering, University of Kashan

Educational background:

2012-now Assistant Professor, University of Kashan.

2007-2012 PhD in manufacturing engineering, Iran University of Science and Technology (IUST), Tehran, Iran.

2004-2006 MSC in manufacturing engineering, Iran University of Science and Technology (IUST), Tehran, Iran.

1999-2004 BSC in manufacturing engineering, Isfahan University of Technology (IUT), Isfahan, Iran.

Fields of Interest

- Metal Forming
- Modelling of Manufacturing Processes
- Residual Stresses
- Severe Plastic Deformation Processes

Courses Taught

- Advanced Engineering Mathematics I (Graduate)
- Metal Forming (Graduate)
- Metal Forming Analysis (Graduate)
- Principles of Residual Stress Measurement (Graduate)

Publications:

➤ Some of Conferences papers:

- **Numerical and experimental investigation of effect the reduction on the residual stress in multilayer strip in cold rolling**, ICMSAO/09-3, Sharjah, U.A.E, (2009).
- **Experimental and numerical investigation of the effect of interlayer bonding strength on the deep drawing limit of bimetal laminates**, ICMSAO/09-2, Sharjah, U.A.E, (2009).
- **The Effect of Annealing Temperature on The Strength of Interface Bond in Cold Weld Rolled Multilayer**, icwet09, Turkey, (2009).
- **The Effects of Inclusion on the Cold-Welded Bonding of Sandwich Sheets Produced by Cold Rolling Process**, icwet09, Turkey, (2009).
- **Experimental and Numerical Investigation of Camber Defect in Aluminum Strip Cold Rolling**, ICMR2009, UK.
- **Prediction of Fiber Glass Orientation after Hot Rolling Process of Polymer Composite by Finite Element Modeling**, The 2nd International Conference on Composites: Characterization, Fabrication and Application (CCFA-2), Dec. 27-30, Kish Island, Iran, (2010).
- **Study on Hydroforming Process of a Copper Tube Using Finite Element Method**, 2th international conference on research in science and technology, Turkey, (2016).
- **Investigation the production of high-strength materials in the equal channel angular rolling process**, International conference on Mechanical and Aerospace Engineering, (2016).
- **Finite element numerical study changes in the thickness of the T-shaped bi-metal tube copper/Aluminum**, Mechanical and Aerospace Engineering, Iran, (2016).
- **Utilizing severe plastic deformation processes in improvement the strength of the alloys used in aerospace industries**, International conference on Mechanical and Aerospace Engineering, Iran, (2016).

Journal Papers:

- **Investigation of laser bending parameters on the residual stress and bending angle of St-Ti bimetal using FEM and neural network**, Optics & Laser Technology 116, 265-275, 2019.
- **Designing and manufacturing a novel tool in the incremental sheet metal forming process and its effects on the process parameters**, Journal of Computational and Applied Research in Mechanical Engineering 9 (1), 19-30, 2019.
- **Ring-core integral method to measurement residual stress distribution of Al-7075 alloy processed by cyclic close die forging**, Materials Research Express 6 (8), 2019.
- **Investigation of residual stress distribution of dissimilar Al-7075-T6 and Al-6061-T6 in the friction stir welding process strengthened with SiO₂ nanoparticles**, Journal of Manufacturing Processes 43, 145-153, 2019.
- **A novel material modeling technique in the single-point incremental forming assisted by the ultrasonic vibration of low carbon steel/commercially pure titanium bimetal sheet**, INT J ADV MANUF TECH 102 (1-4), 473–486, 2019.
- **Effect of stress relief annealing on microstructure, mechanical properties, and residual stress of a copper sheet in the constrained groove pressing process**, INT J ADV MANUF TECH, 102 (9-12), 4361–4370, 2019.
- **Experimental and Numerical Study on the Accuracy of Residual Stress Measurement by Incremental Ring-Core Method**, AUT Journal of Mechanical Engineering 2 (2), 137-147, 2019.
- **Residual stress measurement of Single Point Incremental Formed A/Cu Bimetal Using Incremental Hole-Drilling Method**, International Journal of Lightweight Materials and Manufacture 2 (2), 131-139, 2019.

- **Residual Stresses Measurement in UIC 60 Rail by Ring-Core Method and Sectioning**, AUT Journal of Mechanical Engineering 2 (1), 99-106, 2018.
- **Residual stress, tensile strength, and macrostructure investigations on ultrasonic assisted friction stir welding of AA 6061-T6**, The Journal of Strain Analysis for Engineering Design, 0309324718789768, 2018.
- **Process Parameters Optimization of the Explosive-Welded Al/Cu Bimetal in the Incremental Sheet Metal Forming Process**, Iranian Journal of Science and Technology, Transactions of Mechanical Engineering, 2018.
- **Multi-response optimization on single-point incremental forming of hyperbolic shape Al-1050/Cu bimetal using response surface methodology**, The International Journal of Advanced Manufacturing Technology 96 (9-12), 3069-3080, 2018.
- **Simulation and Investigation of Mechanical and Geometrical Properties of St/CP-Titanium Bimetal Sheet during the Single Point Incremental Forming Process**, Iranian journal of material forming 5 (1), 1-18, 2018.
- **Analytical model to estimate force of constrained groove pressing process**, Journal of Manufacturing Processes 32, 11-19, 2018.
- **Through-depth residual stress measurement of laser bent steel-titanium bimetal sheets**, The Journal of Strain Analysis for Engineering Design 53 (3), 130-140, 2018.
- **Numerical and experimental study on incremental forming process of Al/Cu bimetals: influence of process parameters on the forming force, dimensional accuracy and thickness variations**, Journal of Mechanics of Materials and Structures 13 (1), 35-51, 2018.
- **Numerical and experimental study on the layer arrangement in the incremental forming process of explosive-welded low-carbon steel/CP-titanium bimetal sheet**, The International Journal of Advanced Manufacturing Technology 95 (9-12), 3781-3796, 2018.

- **A Numerical Study on the Residual Stress Measurement Accuracy Using Inverse Eigenstrain Method**, Journal of stress analysis 2 (2), 1-11, 2018.
- **Uncertainty analysis of residual stresses measured by slitting method in equal-channel angular rolled Al-1060 strips**, The Journal of Strain Analysis for Engineering Design 52 (2), 83-92, 2017.
- **Uncertainty analysis of contour method in the hot extruded Aluminum specimens**, Modares Mechanical Engineering, Accepted Paper, (In Persian), 2017.
- **An Experimental Study on the process parameters of Incremental Forming of Explosively-Welded Al/Cu Bimetal**, Journal of Computational and Applied Research in Mechanical Engineering 7(1), 73-83, 2017.
- **Application of CVN and 3-point bending in determination of critical fracture toughness of 46E2 and 60E1 rails**, Modares Mechanical Engineering, (In Persian), 17 (4), 61-66, 2017.
- **Numerical and Experimental Investigation of Thickness Variation in the Spinning Process of Al-1060 Alloy**, Journal of Modern Processes in Manufacturing and Production 5 (4), 5-12, 2016.
- **Investigation of residual stress and mechanical properties of equal channel angular rolled St12 strips**, Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2016.
- **Experimental and numerical investigation of the hot incremental forming of Ti-6Al-4V sheet using electrical current**, The International Journal of Advanced Manufacturing Technology 83 (9), 2027-2037, 2016.
- **Investigation of the effects of cold rolling on the mechanical properties of explosively-welded Al/St/Al multilayer sheet**, Metallurgical Research & Technology 113 (1), 2016.

- **A Study on the Hardness of 7075 and 5052 Aluminum Alloys in the Equal Channel Angular Rolling Process**, Bulletin de la Société Royale des Sciences de Liège 85, 879-889, 2016.
- **Experimental Investigation of Thermal Conductivity of Aluminum Alloy 3003 Produced by Equal Channel Angular Rolling Process**, Journal of Modern Processes in Manufacturing and Production 4 (4), 29-38, 2015.
- **Investigation of Annealing Treatment on the Mechanical and Metallurgical Properties of Explosive-Welded Al/St/Al Multilayer**, Modares Mechanical Engineering, (In Persian), 15 (1), 397-402, 2015.
- **Investigation of Mechanical Properties of Al/Cu Strip Produced by Equal Channel Angular Rolling**, Procedia Materials Science 11, 1-5, 2015.
- **Investigation of residual stresses in stress-relieved samples by heat treatment and ultrasonic methods using hole-drilling method**, Modares mechanical engineering, (In Persian), 14 (15), 273-278, 2015.
- **Investigation of ECAR Routes on Mechanical Properties of Explosive-Welded Al-Cu Bimetal**, Journal of Modern Processes in Manufacturing and Production 3 (4), 83-92, 2014.
- **Investigation of cold rolling influence on the mechanical properties of explosive-welded Al/Cu bimetal**, Materials Science and Engineering: A 558, 144-149, 2012.
- **Investigation of cold rolling influence on near surface residual stress distribution in explosive welded multilayer**, Strength of Materials 44 (6), 693-698, 2012.
- **Experimental study of through-depth residual stress in explosive welded Al-Cu-Al multilayer**, Materials & Design 37, 577-581, 2012.
- **Investigation of annealing treatment on the interfacial properties of explosive-welded Al/Cu/Al multilayer**, Materials & Design 37, 122-127, 2012.

- **Numerical Study of Effective Parameters on Cold Rolling of Tri-layers Al/St/Al and Cu/Al/Cu**, International journal of advanced design and manufacturing technology, (In Persian), 3(1), 2011.