

## **Master of Science (M.Sc.) Theses**

- M. Mansouri**, Obtaining cohesive zone model parameters for solder joints with fatigue loading history
- H. Soroush**, Lead-free solder joints fracture load prediction by considering the effect of strain rate on joint behavior using artificial neural networks
- F. Nazemi**, Effect of initial surface roughness on the residual stress profile induced by shot peening process using finite element method and machine learning algorithms
- P. Deldar Masrour**, Effect of process parameters in selective laser melting on quality (Porosity) of the component
- A. Bakhshiyani**, Predicting the fatigue life of repaired specimens by composite patch exposed to corrosive environments using artificial neural network and finite element method, **2021**
- E. Ghafaralahi**, Quality estimation of resistance spot welding using Ultrasonic testing and Artificial Neural Network (ANN) approach, **2020**
- E. Salehi**, Combined fretting fatigue life estimation based on critical distance theory, **2020**
- M. Mohammadi Amiri**, Experimental study and finite element modeling of the effect of microstructure on fracture behavior of solder joints, **2020**
- A. Sharifi**, Experimental and finite element studies on the low cycle fatigue behavior of magnesium alloy, **2020**
- M. A. Ganjabi**, Effect of different defect of spot welded joint in automotive body on fatigue strength: Experimental and numerical investigation, **2019**
- A. Ahmadi**, Developing a fatigue life assessment method for vehicle BIW by considering spot welding joints, **2019**
- N. Amiri**, Reliability of Ultrasonic technique used for defect detection of spot welded plates in automotive industry, **2019**
- M. Minaei**, Effect analysis of arrangement, sequence and plate thickness of spot welding on residual stress and fatigue life of the joint, **2018**
- A.H. Borjali**, Effects of using sheath on fixation strength of Bashti Bone Plug Technique (BBPT) in an Anterior Cruciate Ligament (ACL) reconstruction, **2017**
- R. Tangestani**, Investigation of the effective parameters and procedures to reduce residual stress of parts produced by wire arc additive manufacturing (WAAM), **2017**
- R. Bikdelo**, Effects of laser peening with different coverage areas on residual stress and fatigue crack growth, **2017**
- T. Hosseinzadeh**, Experimental and finite element analysis of fatigue life for vehicle steering knuckle under road driving test, **2017**
- S. Mirmehdi**, Investigation on the effect of constraint on fracture energy and fracture load prediction of solder joints using finite element modeling, **2017**
- B. Ahmadikia**, High and Low Cycle Fatigue Behavior of Severe Shot Peened Welded Joints, **2016**

**A. Fallah**, Characterisation of Mechanical Fracture Properties of an Alloy Steel Using Small-punch-test, **2016**

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**H. Jafarzadeh**, Determination of mechanical and fracture properties of nanostructure of severe shot peened A356.0 at room temperature, **2014**

**M. Esmaili**, wear behaviour of nanostructure of severe shot peened Aluminium alloy, **2014**

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**A. Shamloo**, Cyclic behavior modeling of magnesium alloy (AZ91) under thermo-mechanical and low cycle fatigue loadings, **2013**

**M. Felfeli**, Modeling stress-strain behavior of Aluminum alloy (A356.0) under thermo-mechanical loading, **2013**

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